East Anglia ONE North Offshore Windfarm

Habitat Regulations Assessment

Appendix 2 – Information to Support AA Report - Screening Matrices

Applicant: East Anglia ONE North Limited
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Applicable to
East Anglia ONE North

Revision Summary				
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001	08/10/2019	Paolo Pizzolla	Ian Mackay	Helen Walker
002	02/11/2020	Paolo Pizzolla	Ian MacKay	Rich Morris
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Description of Revisions			
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01	n/a	n/a	Final for Submission
002	n/a	n/a	Final for Submission following ExA Qs 1.2.2
003	n/a	n/a	Update to address Deadline 2 comments from Natural England

Glossary of Acronyms

AA	Appropriate Assessment
APP	Application Document
EIA	Environmental Impact Assessment
EMF	Electromagnetic Field
HRA	Habitats Regulations Assessment
LSE	Likely Significant Effect
SAC	Special Area of Conservation
SCI	Site of Community Importance
SPA	Special Protection Area

Glossary of Terminology

Applicant	East Anglia ONE North Limited.
East Anglia ONE North project	The proposed project consisting of up to 67 wind turbines, up to four offshore electrical platforms, up to one construction, operation and maintenance platform, inter-array cables, platform link cables, up to one operational meteorological mast, up to two offshore export cables, fibre optic cables, landfall infrastructure, onshore cables and ducts, onshore substation, and National Grid infrastructure.
East Anglia ONE North windfarm site	The offshore area within which wind turbines and offshore platforms will be located.
European site	Sites designated for nature conservation under the Habitats Directive and Birds Directive, as defined in regulation 8 of the Conservation of Habitats and Species Regulations 2017 and regulation 18 of the Conservation of Offshore Marine Habitats and Species Regulations 2017. These include candidate Special Areas of Conservation, Sites of Community Importance, Special Areas of Conservation and Special Protection Areas.
Evidence Plan Process (EPP)	A voluntary consultation process with specialist stakeholders to agree the approach to the EIA and the information required to support HRA.
Natura 2000 site	A site forming part of the network of sites made up of Special Areas of Conservation and Special Protection Areas designated respectively under the Habitats Directive and Birds Directive.
Offshore cable corridor	This is the area which will contain the offshore export cables between offshore electrical platforms and landfall.
Offshore development area	The East Anglia TWO windfarm site and offshore cable corridor (up to Mean High Water Springs).
Offshore export cables	The cables which would bring electricity from the offshore electrical platforms to the landfall. These cables will include fibre optic cables.
Offshore infrastructure	All of the offshore infrastructure including wind turbines, platforms, and cables.

Table of Contents

1 Introduction

1. This document provides the Information to Support Appropriate Assessment Report screening matrices for the proposed East Anglia ONE North project. The matrices summarise information provided in ***Appendix 1*** (Offshore Habitats Regulations Assessment (HRA) Screening) of the Information to Support Appropriate Assessment (AA) report (document reference 5.3).

2. For Deadline 1 this document has been revised to address the following:

- A request from the Examining Authority to include the following sites that were missing from the Screening Matrices submitted with the application (Examining Authority's First Written Questions, Question 1.2.2):
  - Minsmere to Walberswick Heaths and Marshes SAC
  - Plymouth Sound and Estuaries SAC
  - Severn Estuary SAC
  - River Avon SAC
  - Havet Omkring Nordre Ronner (SAC or SPA - not stated)
  - Knudegrund SAC
  - LØnstrup RØdgrund SAC
  - Sandbanker ud for Thorsminde SAC
  - Sandbanker ud for Thyboron SAC
  - Thyboron Stenvolde SCI
  - Littoral Cauchois SAC
  - Panache De La Gironde Et Plateau Rocheux De Cordouan (Système Pertuis Gironde) SAC
  - Pertuis Charentais SAC
  - Mühlenberger Loch SPA
  - SchleswigHolsteinisches Elbastuar und angrenzende Flachen SAC
  - Unterelbe SCI

- A request from the Examining Authority to provide a revised version of the matrices with footnotes updated to include document and paragraph number references to the application materials where the evidence can be found (Question 1.2.4).

2 Screening Matrices

2.1 Effects Considered

3. Potential effects upon the European sites which are considered within the submitted Information to Support AA report are provided in ***Table 2.1***.

Table 2.1 Potential Effects consider in Screening

Site Type	Feature(s)	Potential Effects
Special Protection Area (SPA)	All birds	Offshore effects: • Collision mortality • Displacement/Disturbance • Barrier effect • Cumulative/ In-combination Onshore effects: • Direct effects within SPA boundary • Direct effects on ex-situ habitats • Indirect effects within SPA boundary • Indirect effects on ex-situ habitats
Special Area of Conservation/Site of Community Importance (SAC/SCI)	Benthic habitats	• Permanent loss (and introduction of new sediment where applicable) • Temporary physical disturbance • Smothering due to increased suspended sediment • Re- mobilisation of contaminated sediments • Underwater noise and vibration • Cumulative/ In-combination
	Marine mammals	• Underwater noise • Vessel Interactions • Indirect effects on prey • Changes to water quality • Cumulative/ In-combination
	Fish	• Permanent loss (and introduction of new sediment where applicable) • Temporary physical disturbance • Smothering due to increased suspended sediment • Re- mobilisation of contaminated sediments • Underwater noise and vibration • Electromagnetic fields (EMF)

Site Type	Feature(s)	Potential Effects
		• Cumulative/ In-combination
	Terrestrial	• Direct effects (e.g. habitat loss) • Impacts on ex-situ habitats functionally connected to the SAC • Impacts from alterations to geology and land contamination • Disturbance due to groundwater / hydrology changes • Impacts from noise disturbance • Impacts from changing air quality • Impacts from light disturbance • Impacts from visual disturbance

2.2 Sites Considered

4. The methodology for screening of sites and effects is discussed in ***Appendix 1*** of the Information to Support AA report.

5. The following sites displayed in ***Table 2.2*** were included in the Screening stage.

Table 2.2 Sites included in Screening

East ONE North Reference Number	Designated site	Ornithology	Marine Mammals	Benthic Habitats	Fish	Terrestrial
1	Abberton Reservoir SPA & Ramsar	✓				
2	Abers - Côtes des légendes SAC		✓			
3	Agger Tange, Nissum Bredning, Skibsted Fjord og Agerø SAC		✓			
4	Ålborg Bugt, Randers Fjord Og Mariager Fjord SAC		✓			

East ONE North Reference Number	Designated site	Ornithology	Marine Mammals	Benthic Habitats	Fish	Terrestrial
5	Alde, Ore and Butley Estuaries SAC			✓		
6	Alde-Ore Estuary SPA & Ramsar	✓				
7	Anholt og havet nord for SAC		✓			
8	Archipel des Glénan SAC		✓			
9	Baie De Canche Et Couloir Des Trois Estuaires SAC		✓		✓	
10	Baie de Morlaix SAC		✓			
11	Baie de Seine Occidentale SAC		✓			
12	Baie de Seine Occidentale SPA	✓				
13	Baie de Seine Orientale SAC	✓	✓			
14	Baie du Mont Saint-Michel SAC		✓			
15	Balgö SAC		✓			
16	Bancs Des Flandres SAC		✓	✓		
17	Bassurelle Sandbank SAC			✓		
18	Benacre to Easton Bavents SPA	✓				
19	Benfleet and Southend Marshes SPA & Ramsar	✓				
20	Berwickshire and North Northumberland Coast SAC		✓	✓		

East ONE North Reference Number	Designated site	Ornithology	Marine Mammals	Benthic Habitats	Fish	Terrestrial
21	Blackwater Estuary SPA & Ramsar	✓				
22	Borkum-Riffgrund SCI		✓		✓	
23	Borkum-Riffgrund SPA	✓				
24	Braemar Pockmarks SAC			✓		
25	Breydon Water SPA & Ramsar	✓				
26	Broadland SPA & Ramsar	✓				
27	Bruine Bank pSPA	✓				
28	Buchan Ness to Collieston Coast SPA	✓				
29	Calf of Eday SPA	✓				
30	Cap Sizun SAC		✓			
31	Chausey SAC	✓	✓			
32	Chaussée de Sein SAC		✓			
33	Chesil Beach and The Fleet SPA & Ramsar	✓				
34	Chichester and Langstone Harbours SPA & Ramsar	✓				
35	Colne Estuary SPA & Ramsar	✓				
36	Copinsay SPA	✓				
37	Coquet Island SPA	✓				
38	Côte de Granit Rose-Sept Iles SAC	✓	✓			
39	Cromarty Firth SPA & Ramsar	✓				

East ONE North Reference Number	Designated site	Ornithology	Marine Mammals	Benthic Habitats	Fish	Terrestrial
40	Crouch and Roach Estuaries SPA & Ramsar	✓				
41	Deben Estuary SPA & Ramsar	✓				
42	Dengie (Mid-Essex Coast Phase 1) SPA & Ramsar	✓				
43	Doggerbank SCI		✓			
44	Doggersbank SCI		✓			
45	Dornoch Firth and Loch Fleet SPA & Ramsar	✓				
46	Dornoch Firth and Morrich More SAC		✓			
47	Dråby Vig SAC		✓			
48	Dünenlandschaft Süd-Sylt SAC		✓			
49	Dunes De La Plaine Maritime Flamande SAC		✓	✓		
50	East Caithness Cliffs SPA	✓				
51	Essex Estuaries SAC			✓		
52	Estuaire de la Canche, dunes picardes plaquées sur l'ancienne falaise, forêt d'Hardelot et falaise d'Equihen SAC		✓			
53	Estuaire de la Seine SCI		✓			
54	Estuaires et Littoral Picards (baies de Somme et d'Authie) SAC		✓		✓	
55	Exe Estuary SPA & Ramsar	✓				

East ONE North Reference Number	Designated site	Ornithology	Marine Mammals	Benthic Habitats	Fish	Terrestrial
56	Fair Isle SPA	✓				
57	Falaise du Bessin Occidental SPA	✓				
58	Falaises du Cran Aux Oeufs et du Cap Gris-Nez, Dunes du Chatelet, Marais de Tardinghen et Dunes de Wissant SAC		✓	✓		
59	Faray and Holm of Faray SAC		✓			
60	Farne Islands SPA	✓				
61	Fetlar SPA	✓				
62	Firth of Forth SPA & Ramsar	✓				
63	Firth of Tay & Eden Estuary SAC		✓			
64	Firth of Tay & Eden Estuary SPA & Ramsar	✓				
65	Flamborough and Filey Coast SPA	✓				
66	Flamborough Head SAC			✓		
67	Forth Islands SPA	✓				
68	Foula SPA	✓				
69	Foulness (Mid-Essex Coast Phase 5) SPA & Ramsar	✓				
70	Fowlsheugh SPA	✓				
71	Frisian Front SPA	✓				
72	Gibraltar Point SPA & Ramsar	✓				
73	Great Yarmouth North Denes SPA	✓				

East ONE North Reference Number	Designated site	Ornithology	Marine Mammals	Benthic Habitats	Fish	Terrestrial
74	Greater Wash SPA	✓				
75	Gule Rev SCI		✓			
76	Gullmarsfjorden SAC		✓			
77	Haisborough, Hammond and Winterton SAC			✓		
78	Hamburgisches Wattenmeer SCI		✓			
79	Hamford Water SPA & Ramsar	✓				
80	Havet Omkring Nordre Ronner (SAC or SPA - not stated)		✓			
81	Helgoland mit Helgoländer Felssockel SAC		✓			
82	Hermaness, Saxa Vord and Valla Field SPA	✓				
83	Hesselø med omliggende stenrev SAC		✓			
84	Hirsholmene, havet vest herfor og Ellinge Å's udløb SAC		✓			
85	Hornsea Mere SPA	✓				
86	Hoy SPA	✓				
87	Humber Estuary SAC		✓	✓	✓	
88	Humber Estuary SPA & Ramsar	✓				
89	Hund und Paapsand SCI		✓			
90	Imperial Dock Lock, Leith SPA	✓				

East ONE North Reference Number	Designated site	Ornithology	Marine Mammals	Benthic Habitats	Fish	Terrestrial
91	Inner Dowsing, Race Bank and North Ridge SCI			✓		
92	Inner Moray Firth SPA & Ramsar	✓				
93	Isle of May SAC		✓			
94	Klaverbank SAC		✓			
95	Knudegrund SAC		✓			
96	Kosterfjorden-Väderöfjorden SAC		✓			
97	Kungsbackafjorden SAC		✓			
98	Küsten- und Dünenlandschaften Amrums SAC		✓			
99	Lindisfarne SPA & Ramsar	✓				
100	Littoral Cauchois SAC			✓		
101	Littoral Seino-Marin SPA	✓				
102	Loch of Strathbeg SPA & Ramsar	✓				
103	Løgstør Bredning, Vejlerne og Bulbjerg SAC		✓			
104	LØnstrup RØdgrund SAC		✓			
105	Lovns Bredning, Hjarbæk Fjord og Skals, Simested og Nørre Ådal, Skravad Bæk SAC		✓			
106	Malmöfjord SAC		✓			

East ONE North Reference Number	Designated site	Ornithology	Marine Mammals	Benthic Habitats	Fish	Terrestrial
107	Marais du Cotentin et du Bessin - Baie des Veys SAC		✓			
108	Margate and Long Sands SCI			✓		
109	Marwick Head SPA	✓				
110	Måseskär SAC		✓			
111	Medway Estuary and Marshes SPA & Ramsar	✓				
112	Minsmere to Walberswick Heaths and Marshes SAC			✓	✓	
113	Minsmere-Walberswick SPA & Ramsar	✓				
114	Montrose Basin SPA & Ramsar	✓				
115	Moray and Nairn Coast SPA & Ramsar	✓				
116	Mousa SAC		✓			
117	Mousa SPA	✓				
118	Mühlenberger Loch SPA		✓	✓	✓	
119	Nationalpark Niedersächsisches Wattenmeer SAC		✓			
120	Nibe Bredning, Halkær Ådal og Sønderup Ådal SAC		✓			
121	Nidingen SAC		✓			
122	Noordzeekustzone SAC		✓	✓	✓	
123	Nordre älvs estuarium SAC		✓			

East ONE North Reference Number	Designated site	Ornithology	Marine Mammals	Benthic Habitats	Fish	Terrestrial
124	Nordvästra Skånes havsområde SAC		✓			
125	North Caithness Cliffs SPA	✓				
126	North Norfolk Coast SPA & Ramsar	✓				
127	North Norfolk Sandbanks and Saturn Reef SAC			✓		
128	Northumbria Coast SPA & Ramsar	✓				
129	Noss SPA	✓				
130	NTP S-H Wattenmeer und angrenzende Küstengebiete SAC		✓			
131	Oosterschelde SAC		✓			
132	Orfordness - Shingle Street SAC			✓		
133	Östliche Deutsche Bucht SPA	✓				
134	Ouessant-Molène SAC		✓			
135	Outer Thames Estuary SPA	✓				
136	Panache De La Gironde Et Plateau Rocheux De Cordouan (Système Pertuis Gironde) SAC		✓	✓	✓	
137	Papa Stour SPA	✓				
138	Papa Westray (North Hill and Holm) SPA	✓				
139	Pater Noster-skärgården SAC		✓			

East ONE North Reference Number	Designated site	Ornithology	Marine Mammals	Benthic Habitats	Fish	Terrestrial
140	Pentland Firth Islands SPA	✓				
141	Pertuis Charentais SAC		✓	✓	✓	
142	Plymouth Sound and Estuaries SAC			✓	✓	
143	Portsmouth Harbour SPA & Ramsar	✓				
144	Presqu'ile de Crozon SAC		✓			
145	Ramsar-Gebiet S-H Wattenmeer und angrenzende Küstengebiete SPA	□				
146	Récifs et marais arrière-littoraux du Cap Lévi à la Pointe de Saire SAC		✓			
147	Récifs Gris-Nez Blanc-Nez SAC		✓	✓		
148	Ridens et dunes hydrauliques du détroit du Pas-de-Calais SAC		✓	✓		
149	River Avon SAC				✓	
150	River Derwent SAC				✓	
151	Ronas Hill - North Roe and Tingon SPA	✓				
152	Rousay SPA	✓				
153	Sälöfjorden SAC		✓			
154	Sanday SAC		✓			
155	Sandbanker ud for Thorsminde SAC		✓			
156	Sandbanker ud for Thyboron SAC		✓			

East ONE North Reference Number	Designated site	Ornithology	Marine Mammals	Benthic Habitats	Fish	Terrestrial
157	Sandlings SPA	✓				✓
158	SBZ 1 / ZPS 1 SAC		✓			
159	SBZ 2 / ZPS 2 SAC	✓				
160	SBZ 3 / ZPS 3 SAC	✓				
161	Scanner Pockmark SAC			✓		
162	SchleswigHolsteinisches Elbastuar und angrenzende Flachen SAC		✓	✓	✓	
163	Seevogelschutzgebiet Helgoland SPA	✓				
164	Severn Estuary SAC			✓	✓	
165	Skagens Gren og Skagerrak SAC		✓			
166	Solent and Southampton Water SPA & Ramsar	✓				
167	Soteskär SAC		✓			
168	Southern North Sea SAC		✓			
169	St Abb`s Head to Fast Castle SPA	✓				
170	Staverton Park and the Thicks Wantisden SAC					✓
171	Steingrund SAC		✓			
172	Store Rev SCI		✓			
173	Stour and Orwell Estuaries SPA & Ramsar	✓				
174	Strandenge på Læsø og havet syd herfor SAC		✓			
175	Sumburgh Head SPA	✓				

East ONE North Reference Number	Designated site	Ornithology	Marine Mammals	Benthic Habitats	Fish	Terrestrial
176	Sydlige Nordsø SAC		✓			
177	Sylter Außenriff SCI	✓	✓			
178	Teesmouth and Cleveland Coast SPA & Ramsar	✓				
179	Thames Estuary and Marshes SPA & Ramsar	✓				
180	Thanet Coast and Sandwich Bay SPA & Ramsar	✓				
181	Thanet Coast SAC			✓		
182	The Swale SPA & Ramsar	✓				
183	The Wash and North Norfolk Coast SAC		✓	✓		
184	The Wash SPA & Ramsar	✓				
185	Thyboron Stenvolde SCI		✓			
186	Tregor Goëlo SAC		✓			
187	Troup, Pennan and Lion`s Heads SPA	✓				
188	Unterelbe SCI				✓	
189	Unterems und Außenems SCI		✓			
190	Vadehavet med Ribe Å, Tved Å og Varde Å vest for Varde SAC		✓			
191	Venø, Venø Sund SAC		✓			
192	Vlaamse Banken SAC		✓	✓	✓	
193	Vlakte van de Raan SCI/SAC		✓		✓	

East ONE North Reference Number	Designated site	Ornithology	Marine Mammals	Benthic Habitats	Fish	Terrestrial
194	Voordelta SAC and SPA	✓	✓	✓	✓	
195	Vrångöskärgården SAC		✓			
196	Waddenzee SAC		✓	✓		
197	Waddenzee SPA	✓				
198	West Westray SPA	✓				
199	Westerschelde & Saeftinghe SAC		✓		✓	
200	Winterton – Horsey Dunes SAC		✓			
201	Yell Sound Coast SAC		✓			
202	Ythan Estuary, Sands of Forvie and Meikle Loch SPA	✓				

2.3 Assessment of potential effects

6. A summary of the evidence presented in the determination of the risk of likely significant effects (LSE) on the relevant qualifying features of a site is detailed within the footnotes to the screening matrices below.

7. The following abbreviations are used within the screening matrices:

- Y = LSE **cannot** be excluded
- N = LSE **can** be excluded
- C = construction
- O = operation
- D = decommissioning

8. Where effects are not applicable to a particular feature they are greyed out.

Site	1											
Name of European Site:	Abberton Reservoir SPA and Ramsar											
Distance to East Anglia ONE North (km)	113 (windfarm site)											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Wintering and passage waterbird assemblage including as named features shoveler *Anas clypeata*, teal *Anas crecca*, wigeon *Mareca penelope*, gadwall *Mareca strepera*, pochard *Mareca strepera*, tufted duck *Aythya fuligula*, goldeneye *Bucephala clangula*, mute swan *Cygnus olor*, coot *Fulica atra*, great crested grebe *Podiceps cristatus*		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (c)	N (c)	N (c)
Breeding cormorant *Phalacrocorax carbo*		N (b)		N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)

a) Survey data show little or no evidence of the SPA features found at that site occurring in the East Anglia ONE North windfarm site, and migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North windfarm site (see section 5.1 of Appendix 12.2 (APP-470), none of these species were recorded in the East Anglia ONE North windfarm site). Also see Table 8.2 of the HRA Screening Report (APP-044)).

b) Maximum foraging range of breeding cormorants from their colonies is 35km (Thaxter et al. 2012); the East Anglia ONE North site is therefore located beyond the maximum range and so has no breeding season connectivity. Survey data show no evidence of cormorant occurring in the East Anglia ONE North windfarm site (see section 5.1 of Appendix 12.2 (APP-470).

Site	**1**
Name of European Site:	**Abberton Reservoir SPA and Ramsar**

c) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Abberton Reservoir SPA and Ramsar (see Table 8.2 of the HRA Screening Report (APP-044)).

Site	**2**
Name of European Site:	**Abers - Côtes Des Legendes SAC**
Distance to East Anglia ONE North (km)	**645 (windfarm site)**

Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Grey seal *Halichoerus grypus*	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)		N (a)	N (a)	N (a)	N (a)

a) The distance between the potential impact range of the East Anglia ONE North windfarm site and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraph 189 and 190 and Table 7.3 of the HRA Screening Report (APP-044)).

Site	3														
Name of European Site:	Agger Tange, Nissum Bredning, Skibsted Fjord og Agerø SAC														
Distance to East Anglia ONE North (km)	619603														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour seal *Phoca vitulina*	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)		N (a)	N (a)	N (a)	N (a)

a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraph 218 and 219 and Table 7.3 of the HRA Screening Report (APP-044)).

Site	**4**														
Name of European Site:	**Ålborg Bugt, Randers Fjord og Mariager Fjord SAC**														
Distance to East Anglia ONE North (km)	**847**														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour seal *Phoca vitulina*	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)		N (a)	N (a)	N (a)	N (a)

a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraph 218 and 219 and Table 7.3 of the HRA Screening Report (APP-044)).

Site	**5**																	
Name of European Site:	**Alde, Ore and Butley Estuaries SAC**																	
Distance to East Anglia ONE North (km): 3.4 (cable corridor)																		
Site Features	Likely effect(s) of East Anglia ONE North																	
	Permanent loss			Temporary physical disturbance			Smothering due to increased suspended sediment			Re- mobilisation of contaminated sediments			Underwater noise and vibration			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Offshore habitats																		
Mudflats and sandflats not covered by seawater at low tide	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)
Estuaries	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)
Atlantic Salt Meadows	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)

a) Within range of theoretical indirect effect (sediment deposition) but effect negligible as features are primarily sedimentary (see paragraphs 120 and 121 of the HRA Screening Report (APP-044)).

Site	6											
Name of European Site:	Alde-Ore Estuary SPA and Ramsar											
Distance to East Anglia ONE North (km)	3.2											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Breeding lesser black-backed gulls *Larus fuscus*		**Y (a)**		N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (h)	**Y (a)**	N (h)
Breeding marsh harrier *Circus aeruginosus*		N (c)		N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)
Breeding avocet *Recurvirostra avosetta*		N (d)		N (d)	N (d)	N (d)	N (d)	N (d)	N (d)	N (h)	N (h)	N (h)
Breeding little tern *Sternula albifrons*		N (e)		N (e)	N (e)	N (e)	N (e)	N (e)	N (e)	N (e)	N (e)	N (e)
Breeding Sandwich tern *Sterna sandvicensis*		N (f)		N (f)	N (f)	N (f)	N (f)	N (f)	N (f)	N (h)	N (h)	N (h)
Nonbreeding ruff *Philomachus pugnax*, avocet, redshank *Tringa totanus*		N (g)		N (g)	N (g)	N (g)	N (g)	N (g)	N (g)	N (h)	N (h)	N (h)
Seabird assemblage of international importance		**Y (i)**		N (h)	N (h)	N (h)	N (h)	N (h)	N (h)	N (h)	**Y (i)**	N (h)

a) Lesser black-backed gull populations may have connectivity with East Anglia ONE North. This SPA holds the closest large colony of these species to East Anglia ONE North, and some birds from that SPA may pass through East Anglia ONE North during migration. Model predictions of collision mortality indicate that LSE cannot be ruled out at screening and so requires further consideration (see paragraph 265 of the HRA Screening Report (APP-044)).

b) Evidence indicates that lesser black-backed gulls are not affected by displacement, disturbance or barrier effects at offshore wind farms (see Table 12.4 Chapter 12 – Offshore Ornithology (APP-060).

c) Marsh harrier is a migrant species. Satellite tracking suggests that marsh harriers migrate overland to the south coast of England and over the Channel to France, rather than across the North Sea.

d) Avocet has not been observed in the East Anglia ONE North windfarm site during bird surveys (see section 5.1 of Appendix 12.2 (APP-470)). It is highly unlikely that avocets from this SPA will migrate through the East Anglia ONE North windfarm site, and if they did, their flight height is likely not to be at collision risk height.

e) Breeding little tern has a maximum foraging range of 11km from colonies, so would have no connectivity with the East Anglia ONE North windfarm site. Migrating little terns are considered to be 'extremely coastal on passage with very few sightings in open ocean or inland' (Forrester et al. 2007), so are unlikely to pass through the East Anglia ONE North site.

f) Breeding Sandwich tern has a maximum foraging range of 54km from colonies, so would have connectivity with the East Anglia ONE North windfarm site. However, only very small numbers of terns of any species were observed in the East Anglia ONE North site in surveys (see section 5.2 of Appendix 12.2 (APP-470)). Migrating Sandwich terns from this SPA population will form a very small fraction of the very small total numbers of terns passing the site on passage.

g) Ruff, avocet and redshank were not observed during bird surveys at the East Anglia ONE North windfarm site (see section 5.1 of Appendix 12.2 (APP-470)). It is highly unlikely that these birds would migrate through the East Anglia ONE North site as their migration is likely to take a coastal route and cross sea at narrow points such as The English Channel. If they did migrate through the East Anglia ONE North site their flight height is likely not to be at collision risk height.

h) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Alde-Ore Estuary SPA and Ramsar (see Table 8.2 of the HRA Screening Report (APP-044)).

Site	7														
Name of European Site:	Anholt og havet nord for SAC														
Distance to East Anglia ONE North (km)	907														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Grey seal *Halichoerus grypus*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
Harbour seal *Phoca vitulina*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)

a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraph 218 and 219 for harbour seal and 189 and 190 for grey seal and Table 7.3 of the HRA Screening Report (APP-044).

Site	8														
Name of European Site:	Archipel des Glénan SAC														
Distance to East Anglia ONE North (km)	768														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Grey seal *Halichoerus grypus*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 189 and 190 and Table 7.3 of the HRA Screening Report (APP-044)).															

Site	**9**
Name of European Site:	**Baie de Canche et couloir des trois estuaires SAC**
Distance to East Anglia ONE North (km)	**199**

Marine Mammals

Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour porpoise *Phocoena phocoena*	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)		N (a)	N (a)	N (a)	N (a)
Grey seal *Halichoerus grypus*	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)		N (a)	N (a)	N (a)	N (a)
Harbour seal *Phoca vitulina*	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)		N (a)	N (a)	N (a)	N (a)

Fish

Site Features	Likely effect(s) of East Anglia ONE North																				
	Permanent habitat loss			Temporary physical disturbance			Smothering due to increased suspended sediment			Re- mobilisation of contaminated sediments			Underwater noise and vibration			Electromagnetic fields (EMF)			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Salmon *Salmo salar*	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)

Site	9																			
Name of European Site:	**Baie de Canche et couloir des trois estuaires SAC**																			
Distance to East Anglia ONE North (km)	**199**																			
Sea lamprey *Petromyzon marinus*	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)
River lamprey *Lampetra fluviatilis*	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)
Allis shad *Alosa alosa*	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)

a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 218 and 219 for harbour seal, paragraphs 189 and 190 for grey seal and paragraphs 167 and 168 for harbour porpoise, of the HRA Screening Report (APP-044)).

b) It was agreed as part of the East Anglia ONE North Scoping Report that transboundary impacts on fish would be scoped out of the EIA. We have therefore screened them out from consideration in the HRA (see Appendix 10.1 (APP-462).

Site	10														
Name of European Site:	Baie De Morlaix SAC														
Distance to East Anglia ONE North (km)	595														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Grey seal *Halichoerus grypus*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)

a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 189 and 190 and Table 7.3 of the HRA Screening Report (APP-044)).

Site	**11**														
Name of European Site:	**Baie de Seine Occidentale SAC**														
Distance to East Anglia ONE North (km)	**386**														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour porpoise *Phocoena phocoena*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
Harbour seal *Phoca vitulina*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)

a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraph 218 and 219 for harbour seal and paragraphs 167 and 168 for harbour porpoise and Table 7.3 of the HRA) Screening Report (APP-044)..

Site	**12**											
Name of European Site:	**Baie de Seine Occidentale SPA**											
Distance to East Anglia ONE North (km)	**380**											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Breeding, wintering and passage waterbirds		N(a)		N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(b)	N(b)	N(b)

a) Survey data show little or no evidence of Baie de Seine Occidentale SPA features occurring in the East Anglia ONE North site, and migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North site, as most migrant waterfowl moving between northern breeding areas and southern wintering areas and using staging areas such as Baie de Seine Occidentale in France pass along the west European flyway along the continental coast rather than crossing the North Sea to the UK. At a distance of 341km, the chances of birds from this SPA moving through the East Anglia ONE North site are extremely small (see section 5.1 of Appendix 12.2 (APP-470), none of SPA features were recorded in the East Anglia ONE North windfarm site). Also see Table 8.2 of the HRA Screening Report (APP-044)).

b) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Baie de Seine Occidentale SPA (see Table 8.2 of the HRA Screening Report (APP-044)).

Site	**13**														
Name of European Site:	**Baie de Seine Orientale SAC**														
Distance to East Anglia ONE North (km)	**386**														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour porpoise *Phocoena phocoena*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
Harbour seal *Phoca vitulina*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraph 218 and 219 for harbour seal and paragraphs 167 and 168 for harbour porpoise and Table 7.3 of the HRA).															

Site	14														
Name of European Site:	Baie du Mont Saint-Michel SAC														
Distance to East Anglia ONE North (km)	903														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Grey seal *Halichoerus grypus*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
Harbour seal *Phoca vitulina*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraph 218 and 219 for harbour seal and paragraphs 189 and 190 for grey seal and Table 7.3 of the HRA Screening Report (APP-044)).															

Site	15														
Name of European Site:	Balgö SAC														
Distance to East Anglia ONE North (km)	903(														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour seal *Phoca vitulina*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraph 218 and 219 for harbour seal and Table 7.3 of the HRA Screening Report (APP-044)).															

Site	**16**
Name of European Site:	**Bancs des Flandres SAC**
Distance to East Anglia ONE North (km)	**110**

Marine Mammals

Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour porpoise *Phocoena phocoena*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
Grey seal *Halichoerus grypus*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
Harbour seal *Phoca vitulina*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)

Benthic Habitats

Site Features	Permanent loss			Temporary physical disturbance			Smothering due to increased suspended sediment			Re- mobilisation of contaminate d sediments			Underwater noise and vibration			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Sandbanks which are slightly covered	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)		N (b)	N (b)		N (b)	N (b)	N (b)	N (b)

Site	**16**
Name of European Site:	**Bancs des Flandres SAC**
Distance to East Anglia ONE North (km)	**110**

by sea water all the time																		

a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraph 218 and 219 for harbour seal, paragraphs 189 and 190 for grey seal and paragraphs 167 and 168 for harbour porpoise and Table 7.3 of the HRA Screening Report (APP-044)).

b) As it has been agreed through the scoping and Evidence Plan Process (EPP) (see Appendix 9.1 (APP-458) that transboundary effects are scoped out for EIA (given the distance to sites in other Members States jurisdictions) these have also been screened out from consideration for HRA purposes.

Site	**17**																	
Name of European Site:	**Bassurelle Sandbank SAC**																	
Distance to East Anglia ONE North (km)	**203**																	
Site Features	Likely effect(s) of East Anglia ONE North																	
	Permanent loss			Temporary physical disturbance			Smothering due to increased suspended sediment			Re- mobilisation of contaminated sediments			Underwater noise and vibration			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Sandbanks which are slightly covered by sea water all the time	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)		N (a)	N (a)		N (a)	N (a)	N (a)	N (a)

a) As it has been agreed through the scoping and Evidence Plan Process (EPP) (see Appendix 9.1 (APP-458) that transboundary effects are scoped out for EIA (given the distance to sites in other Members States jurisdictions) these have also been screened out from consideration for HRA purposes.

Site	**18**											
Name of European Site:	**Benacre to Easton Bavents SPA**											
Distance to East Anglia ONE North (km)	**19 (onshore cable corridor)**											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Breeding Great bittern *Botarus stellaris*		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)
Breeding Eurasian marsh harrier *Circus aeruginosus*		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)
Breeding Little tern *Sterna albifrons*		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)
a) No overlap therefore no direct effect and beyond the range of potential significant indirect effect (see Table 8.2 of the HRA Screening Report (APP-044)).												

Site Name of European Site: Distance to East Anglia ONE North (km)	19 Benfleet & Southend Marshes SPA and Ramsar 94 (cable corridor)											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Wintering and passage waterbird assemblage including as named features brent goose *Branta bernicla*, dunlin *Calidris alpina*, knot *Calidris canutus*, ringed plover *Charadrius hiaticula*, grey plover *Pluvialis squatarola*		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (b)	N (b)	N (b)

a) Survey data show little or no evidence of Benfleet & Southend Marshes SPA features occurring in the East Anglia ONE North site, and migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North site during migration (see section 5.1 of Appendix 12.2 (APP-470), none of these species were recorded in the East Anglia ONE North windfarm site). Also see Table 8.2 of the HRA Screening Report (APP-044)).

b) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Benfleet & Southend Marshes SPA and Ramsar (see Table 8.2 of the HRA Screening Report (APP-044)).

Site	**20**
Name of European Site:	**Berwickshire and North Northumberland Coast SAC**
Distance to East Anglia ONE North (km)	**414 (windfarm site) and 409 (offshore cable corridor)**

Marine Mammals																
Site Features	Likely effect(s) of East Anglia ONE North															
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination			
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	
Grey seal *Halichoerus grypus*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)	

Benthic Habitats																		
Site Features	Permanent loss			Temporary physical disturbance			Smothering due to increased suspended sediment			Re-mobilisation of contaminate d sediments			Underwater noise and vibration			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Coastal lagoons	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)		N (b)	N (b)		N (b)	N (b)	N (b)	N (b)
Submerged or partially	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)		N (b)	N (b)		N (b)	N (b)	N (b)	N (b)

Site	**20**																
Name of European Site:	**Berwickshire and North Northumberland Coast SAC**																
Distance to East Anglia ONE North (km)	**414 (windfarm site) and 409 (offshore cable corridor)**																
submerged sea caves																	

a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 189 and 190 and Table 7.3 of the HRA Screening Report (APP-044)).

b) The distance between the offshore project area and the designated site is beyond the range of any potential LSE (see section 5.2.1 of the HRA Screening Report (APP-044)).

Site	**21**
Name of European Site:	**Blackwater Estuary SPA and Ramsar**
Distance to East Anglia ONE North (km)	**114**

Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Wintering and passage waterbird assemblage including as named features brent goose, dunlin, ringed plover, black-tailed godwit *Limosa limosa limosa*, grey plover		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (f)	N (f)	N (f)
Nonbreeding hen harrier *Circus cyaneus*		N (b)		N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (f)	N (f)	N (f)
Breeding pochard		N (c)		N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (f)	N (f)	N (f)
Breeding ringed plover		N (d)		N (d)	N (d)	N (d)	N (d)	N (d)	N (d)	N (f)	N (f)	N (f)
Breeding little tern		N (e)		N (e)	N (e)	N (e)	N (e)	N (e)	N (e)	N (e)	N (e)	N (e)

a) Survey data show little or no evidence of Blackwater Estuary SPA features occurring in the East Anglia ONE North site, and migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North site during migration (see section 5.1 of Appendix 12.2 (APP-470), none of these species were recorded in the East Anglia ONE North windfarm site).

b) Survey data show no evidence of Blackwater Estuary SPA feature (hen harrier) occurring in the East Anglia ONE North site, and migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North site (see section 5.1 of Appendix 12.2 (APP-470), this species was not recorded in the East Anglia ONE North windfarm site).

c) Survey data show no evidence of Blackwater Estuary SPA feature (pochard) occurring in the East Anglia ONE North site, and migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North site (see section 5.1 of Appendix 12.2 (APP-470), this species was not recorded in the East Anglia ONE North windfarm site).

d) Survey data show no evidence of Blackwater Estuary SPA feature (ringed plover) occurring in the East Anglia ONE North site, and migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North site (see section 5.1 of Appendix 12.2 (APP-470), this species was not recorded in the East Anglia ONE North windfarm site).

e) Breeding little tern has a maximum foraging range of 11km from colonies, so would have no connectivity with the East Anglia ONE North site. Migrating little terns are considered to be 'extremely coastal on passage with very few sightings in open ocean or inland' (Forrester et al. 2007), so are unlikely to pass through the East Anglia ONE North site (see section 5.1 of Appendix 12.2 (APP-470), this species was not recorded in the East Anglia ONE North windfarm site).

f) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Blackwater Estuary SPA and Ramsar (see Table 8.2 of the HRA Screening Report (APP-044)).

Site	**22**															
Name of European Site:	**Borkum-Riffgrund (Borkum Reef Ground) SCI**															
Distance to East Anglia ONE North (km)	**294**															
Marine Mammals																
Site Features	Likely effect(s) of East Anglia ONE North															
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination			
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	
Harbour porpoise *Phocoena phocoena*	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)		N (a)	N (a)	N (a)	N (a)	
Grey seal *Halichoerus grypus*	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)		N (a)	N (a)	N (a)	N (a)	
Harbour seal *Phoca vitulina*	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)		N (a)	N (a)	N (a)	N (a)	

Fish																						
Site Features	Permanent habitat loss			Temporary physical disturbance			Smothering due to increased suspended sediment			Re- mobilisation of contaminated sediments			Underwater noise and vibration			Electromagnetic fields (EMF)			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D

Twaite shad *Alosa fallax*	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)

a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraph 218 and 219 for harbour seal, paragraphs 189 and 190 for grey seal and paragraphs 167 and 168 for harbour porpoise of the HRA Screening Report (APP-044)).

b) It was agreed as part of the East Anglia ONE North Scoping and Evidence Plan Process (EPP) (see Appendix 10.1 (APP-458) that transboundary impacts on fish would be scoped out of the EIA. We have therefore screened them out from consideration in the HRA.

Site	23											
Name of European Site:	Borkum-Riffgrund SPA											
Distance to East Anglia ONE North (km)	292											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Nonbreeding seabird assemblage including as named features black-throated diver *Gavia arctica*, red-throated diver *Gavia stellata*, common gull *Larus canus*, lesser black-backed gull, great black-backed gull *Larus marinus*, little gull *Larus minutus*, kittiwake *Rissa tridactyla*, common tern *Sterna hirundo*, Arctic tern *Sterna paradisaea*, Sandwich tern, gannet *Morus bassanus*, guillemot *Uria aalge*		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (b)	N (b)	N (b)

a) Migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North site during migration relative to the size of Biologically Defined Minimum Population Scale (BDMPS) regional populations. Not only are the sites 320km apart, but much of the seasonal movement of birds avoids crossing of the North Sea so that birds on the continental side of the North Sea are more likely to move along the continental coast rather than crossing to the UK (see Table 8.2 of the HRA Screening Report (APP-044)).

b) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Borkum-Riffgrund SPA (see Table 8.2 of the HRA Screening Report (APP-044)).

Site	**24**																	
Name of European Site:	**Braemar Pockmarks SAC**																	
Distance to East Anglia ONE North (km)	**737**																	
Site Features	Likely effect(s) of East Anglia ONE North																	
	Permanent loss			Temporary physical disturbance			Smothering due to increased suspended sediment			Re- mobilisation of contaminated sediments			Underwater noise and vibration			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Submarine structures made by leaking gases	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)		N (a)	N (a)		N (a)	N (a)	N (a)	N (a)

a) The distance between the offshore project area and the designated site is beyond the range of any potential LSE (see section 5.2.1 of the HRA Screening Report (APP-044)).

Site	25											
Name of European Site:	Breydon Water SPA and Ramsar											
Distance to East Anglia ONE North (km)	34											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Wintering and passage waterbird assemblage including as named features Bewick's swan *Cygnus columbianus bewickii*, ruff, golden plover *Pluvialis apricaria*, avocet, lapwing *Vanellus vanellus*		**Y (a)**		N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	**Y (a)**	N (b)
Breeding common tern *Sterna hirundo*		N (c)		N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (d)	N (d)	N (d)

a) Band model estimates of collision mortality indicate that LSE cannot be ruled out at the Screening stage (see Appendix 12.2 Annex 4 (APP-470)).

b) Survey data show little or no evidence of SPA features occurring in East Anglia ONE North and migrations of birds from this SPA are likely to result in negligible numbers passing through the site during migration (see section 5.1 of Appendix 12.2 (APP-470), none of these species were recorded in the East Anglia ONE North windfarm site).

c) SPA is far beyond the maximum foraging range of common tern (30km) so has no breeding season connectivity. Numbers of SPA common tern migrating through the East Anglia ONE North windfarm site are likely to be extremely small relative to BDMPS (see section 5.1 of Appendix 12.2 (APP-470), common terns recorded in very low numbers within the East Anglia ONE North windfarm site.

d) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Breydon Water SPA and Ramsar (see Table 8.2 of the HRA Screening Report (APP-044).

Site	**26**
Name of European Site:	**Broadland SPA and Ramsar**
Distance to East Anglia ONE North (km)	**22**

Site Features	Likely effect(s) of East Anglia ONE North offshore project area											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Wintering and passage waterbird assemblage including as named features shoveler, wigeon, gadwall, Bewick's swan, whooper swan, ruff	N (b)	**Y (a)**	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (c)	**Y (a)**	N (c)

a) Band model estimates of collision mortality indicate that LSE cannot be ruled out at the Screening stage (see Appendix 12.2 Annex 4 (APP-470)).

b) Survey data show little or no evidence of SPA features occurring in East Anglia ONE North and migrations of birds from this SPA are likely to result in negligible numbers passing through the site during migration (see section 5.1 of Appendix 12.2 (APP-470), none of these species were recorded in the East Anglia ONE North windfarm site).

c) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features (see Table 8.2 of the HRA Screening Report (APP-044)).

Site	27											
Name of European Site:	Bruine Bank (Brown Ridge) pSPA											
Distance to East Anglia ONE North (km)	53											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Nonbreeding common guillemots *Uria aalge* and razorbills *Alca torda*		N (a)		N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (c)	N (c)	N (c)

a) The designated features of Bruine Bank pSPA are likely to be common guillemot and razorbill, species for which low flight height results in low risk of collision with offshore wind turbines. Furthermore, birds wintering on Bruine Bank are likely to remain at the pSPA because it is a high-quality feeding habitat (i.e. the reason why this concentration of birds is being proposed for SPA status), and so these birds are unlikely to be at risk of collision at the East Anglia ONE North site (see Table 8.2 of the HRA Screening Report (APP-044)).

b) Bruine Bank is high quality feeding habitat for nonbreeding piscivorous seabirds from breeding areas further north, so the birds in that pSPA are unlikely to pass through the East Anglia ONE North site on migration as it lies west rather than north of the pSPA. Therefore, displacement, disturbance and barrier effect at the East Anglia ONE North site will not be likely to affect birds on Bruine Bank pSPA (see Table 8.2 of the HRA Screening Report (APP-044)).

c) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Bruine Bank pSPA (see Table 8.2 of the HRA Screening Report (APP-044)).

Site	**28**											
Name of European Site:	**Buchan Ness to Collieston Coast SPA**											
Distance to East Anglia ONE North (km)	**611**											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Breeding seabird assemblage, including as named features kittiwake, shag *Phalacrocorax aristotelis*, fulmar, guillemot, herring gull *Larus argentatus*		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (b)	N (b)	N (b)

a) Buchan Ness to Collieston Coast SPA is beyond maximum foraging range of designated seabird species so has no breeding season connectivity. Proportions of these populations migrating through the East Anglia ONE North site are likely to be very small relative to BDMPS see Table 8.2 of the HRA Screening Report (APP-044)).

b) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Buchan Ness to Collieston Coast SPA (see Table 8.2 of the HRA Screening Report (APP-044)).

Site	**29**											
Name of European Site:	**Calf of Eday SPA**											
Distance to East Anglia ONE North (km)	**818**											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Breeding seabird assemblage including as named features cormorant, fulmar *Fulmarus glacialis*, guillemot, kittiwake and great black-backed gull		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (b)	N (b)	N (b)

a) Calf of Eday SPA is beyond maximum foraging range of designated seabird species so has no breeding season connectivity. Proportions of these populations migrating through the East Anglia ONE North site are likely to be small relative to BDMPS (see Table 8.2 of the HRA Screening Report (APP-044)).

b) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Calf of Eday SPA (see Table 8.2 of the HRA Screening Report (APP-044)).

Site	**30**														
Name of European Site:	**Cap Sizun SAC**														
Distance to East Anglia ONE North (km)	**723**														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Grey seal (*Halichoerus grypus*)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 189 and 190 and Table 7.3 of the HRA Screening Report (APP-044)).															

Site	**31**														
Name of European Site:	**Chausey SAC**														
Distance to East Anglia ONE North (km)	**510**														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Grey seal (*Halichoerus grypus*)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 189 and 190 and Table 7.3 of the HRA Screening Report (APP-044)).															

Site	**32**														
Name of European Site:	**Chaussée de Sein SAC**														
Distance to East Anglia ONE North (km)	**743**														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Grey seal	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)

a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 189 and 190 and Table 7.3 of the HRA Screening Report (APP-044)).

Site	33											
Name of European Site:	Chesil Beach and The Fleet SPA & Ramsar											
Distance to East Anglia ONE North (km)	386 (windfarm site) and 339 (offshore cable corridor)											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Nonbreeding brent goose		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (b)	N (b)	N (b)

a) Survey data show little or no evidence of Chesil Beach & The Fleet SPA feature (brent goose) occurring in the East Anglia ONE North site, and migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North site (see section 5.1 of Appendix 12.2 (APP-470), none of these species/SPA features were recorded in the East Anglia ONE North windfarm site).

b) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Chesil Beach & The Fleet SPA and Ramsar (see Table 8.2 of the HRA Screening Report (APP-044).

Site	34											
Name of European Site:	Chichester and Langstone Harbours SPA & Ramsar											
Distance to East Anglia ONE North (km)	227 (windfarm site) and 274 (cable corridor)											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Migratory waterbird assemblage including as named features pintail *Anas acuta*, shoveler, teal, wigeon, turnstone *Arenaria interpres*, brent goose, sanderling *Calidris alba*, dunlin, ringed plover, bar-tailed godwit *Limosa lapponica*, red-breasted merganser *Mergus serrator*, curlew *Numenius arquata*, grey plover, shelduck *Tadorna tadorna*, redshank		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (c)	N (c)	N (c)
Breeding little tern, common tern, Sandwich tern		N (b)		N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)

a) Survey data show little or no evidence of Chichester & Langstone Harbour SPA features occurring in the East Anglia ONE North site, and migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North site (see section 5.1 of Appendix 12.2 (APP-470), none of these species/SPA features were recorded in the East Anglia ONE North windfarm site).

b) Little tern, common tern and Sandwich tern have maximum foraging ranges from colonies of 11km, 30km and 54km respectively, so there is no connectivity between the SPA and East Anglia ONE North site. Furthermore, these species tend to forage in coastal waters rather than offshore. Therefore, collision risk, displacement and barrier effects can be excluded (see Table 8.2 of the HRA Screening Report (APP-044)).

c) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Chichester & Langstone Harbour SPA and Ramsar (see Table 8.2 of the HRA Screening Report (APP-044)).

Site	35										
Name of European Site:	Colne Estuary SPA and Ramsar										
Distance to East Anglia ONE North (km)	103 (windfarm site) and 56 (offshore cable corridor)										
Site Features	Likely effect(s) of East Anglia ONE North										
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Nonbreeding brent goose		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (c)	N (c)	N (c)
Nonbreeding redshank		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (c)	N (c)	N (c)
Nonbreeding hen harrier		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (c)	N (c)	N (c)
Breeding pochard		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (c)	N (c)	N (c)
Breeding ringed plover		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (c)	N (c)	N (c)
Breeding little tern		N (b)		N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)

a) Survey data show no evidence of the feature occurring in the East Anglia ONE North site, and migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North site (see section 5.1 of Appendix 12.2 (APP-470), none of these species/SPA features were recorded in the East Anglia ONE North windfarm site).

b) Breeding little tern has a maximum foraging range of 11km from colonies, so would have no connectivity with the East Anglia ONE North site. Migrating little terns are considered to be 'extremely coastal on passage with very few sightings in open ocean or inland' (Forrester et al. 2007), so are unlikely to pass through the East Anglia ONE North site (see Table 8.2 of the HRA Screening Report (APP-044).

c) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Colne Estuary SPA and Ramsar (see Table 8.2 of the HRA Screening Report (APP-044).

Site	**36**											
Name of European Site:	**Copinsay SPA**											
Distance to East Anglia ONE North (km)	**784**											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Breeding seabird assemblage including as named features fulmar, guillemot, kittiwake and great black-backed gull		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (b)	N (b)	N (b)

a) Copinsay SPA is beyond maximum foraging range of designated seabird species so has no breeding season connectivity. Proportions of these populations migrating through the East Anglia ONE North site are likely to be very small relative to BDMPS (see Table 8.2 of the HRA Screening Report (APP-044)).

b) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Copinsay SPA (see Table 8.2 of the HRA Screening Report (APP-044)).

Site	**37**
Name of European Site:	**Coquet Island SPA**
Distance to East Anglia ONE North (km)	**410**

Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Breeding roseate tern *Sterna dougallii*, Arctic tern, common tern, Sandwich tern		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (b)	N (b)	N (b)
Seabird assemblage of international importance		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)

a) Coquet Island SPA is far beyond the maximum foraging range of designated seabird species (all less than 55km) so has no breeding season connectivity. Proportions of these populations migrating through the East Anglia ONE North site are likely to be very small relative to BDMPS (see Table 8.2 of the HRA Screening Report (APP-044)).

b) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Coquet Island SPA (see Table 8.2 of the HRA Screening Report (APP-044)).

Site	38														
Name of European Site:	Côte De Granit Rose-Sept-Iles SAC														
Distance to East Anglia ONE North (km)	557														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Grey seal *Halichoerus grypus*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 189 and 190 and Table 7.3 of the HRA Screening Report (APP-044)).															

Site	**39**
Name of European Site:	**Cromarty Firth SPA & Ramsar**
Distance to East Anglia ONE North (km)	**713 (windfarm site) and 706 (offshore cable corridor)**

Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Wintering and passage waterbird assemblage including as named features curlew, dunlin, grey-lag goose *Anser anser*, pintail, red-breasted merganser, whooper swan, bar-tailed godwit, oystercatcher *Haematopus ostralegus*, wigeon, scaup *Aythya marila*, knot and redshank		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (d)	N (d)	N (d)
Breeding common tern		N (b)		N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (d)	N (d)	N (d)
Breeding osprey *Pandion haliaetus*		N (c)		N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)

a) Survey data show little or no evidence of Cromarty Firth SPA features occurring in the East Anglia ONE North site, and migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North site (see section 5.1 of Appendix 12.2 (APP-470), none of these species/SPA features were recorded in the East Anglia ONE North windfarm site).

b) SPA is beyond maximum foraging range of common tern (30km), and so has no breeding season connectivity. Numbers of SPA common tern migrating through the East Anglia ONE North site are likely to be extremely small relative to BDMPS (see Table 8.2 of the HRA Screening Report (APP-044).

Site	**39**
Name of European Site:	**Cromarty Firth SPA & Ramsar**
Distance to East Anglia ONE North (km)	**713 (windfarm site) and 706 (offshore cable corridor)**

c) Osprey has not been observed in the East Anglia ONE North site, and it is improbable than any ospreys from the SPA migrate through the East Anglia ONE North site (see section 5.1 of Appendix 12.2 (APP-470), none of these species/SPA features were recorded in the East Anglia ONE North windfarm site).

d) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Cromarty Firth SPA and Ramsar (see Table 8.2 of the HRA Screening Report (APP-044).

Site	**40**											
Name of European Site:	**Crouch and Roach Estuaries SPA & Ramsar**											
Distance to East Anglia ONE North (km)	**124 (windfarm site) and 78 (offshore cable corridor)**											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Nonbreeding brent goose		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (c)	N (c)	N (c)
Nonbreeding hen harrier		N (b)		N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (c)	N (c)	N (c)

a) Survey data show little or no evidence of Crouch & Roach Estuary SPA feature (brent goose) occurring in the East Anglia ONE North site, and migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North site (see section 5.1 of Appendix 12.2 (APP-470), none of these species/SPA features were recorded in the East Anglia ONE North windfarm site).

b) Survey data show no evidence of Crouch & Roach Estuary SPA feature (hen harrier) occurring in the East Anglia ONE North site, and migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North site (see section 5.1 of Appendix 12.2 (APP-470), none of these species/SPA features were recorded in the East Anglia ONE North windfarm site).

c) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Crouch & Roach Estuary SPA and Ramsar (see Table 8.2 of the HRA Screening Report (APP-044).

Site	**41**
Name of European Site:	**Deben Estuary SPA & Ramsar**
Distance to East Anglia ONE North (km)	**18 (windfarm site) and 72 (cable corridor)**

Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Nonbreeding dark-bellied brent goose *Branta bernicla bernicla*		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (c)	N (c)	N (c)
Nonbreeding avocet		N (b)		N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (c)	N (c)	N (c)

a) Survey data show little or no evidence of brent goose occurring in the East Anglia ONE North site, and migrations of birds from the SPA are likely to result in negligible numbers passing through the East Anglia ONE North site (see section 5.1 of Appendix 12.2 (APP-470), this species was not recorded in the East Anglia ONE North windfarm site).

b) Survey data show no evidence of avocets occurring within the East Anglia ONE North site, and numbers migrating through the site are likely to be negligible (see section 5.1 of Appendix 12.2 (APP-470), this species was not recorded in the East Anglia ONE North windfarm site).

c) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Deben Estuary SPA and Ramsar (see Table 8.2 of the HRA Screening Report (APP-044).

Site	**42**
Name of European Site:	**Dengie SPA & Ramsar**
Distance to East Anglia ONE North (km)	**115 (windfarm site) and 68 (offshore cable corridor)**

Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Nonbreeding brent goose		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (b)	N (b)	N (b)
Nonbreeding knot		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (b)	N (b)	N (b)
Nonbreeding grey plover		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (b)	N (b)	N (b)
Nonbreeding hen harrier		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (b)	N (b)	N (b)

a) Survey data show little or no evidence of Dengie SPA features (brent goose, knot, grey plover, hen harrier) occurring in the East Anglia ONE North site, and migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North site (see section 5.1 of Appendix 12.2 (APP-470), none of these species/SPA features were recorded in the East Anglia ONE North windfarm site).

b) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Dengie SPA and Ramsar (see Table 8.2 of the HRA Screening Report (APP-044).

Site	43														
Name of European Site:	Doggerbank SCI														
Distance to East Anglia ONE North (km)	346														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour porpoise *Phocoena phocoena*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
Harbour seal *Phoca vitulina*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)

a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraph 218 and 219 for harbour seal and paragraphs 167 and 168 for harbour porpoise of the HRA Screening Report.

Site	**44**														
Name of European Site:	**Doggersbank SAC**														
Distance to East Anglia ONE North (km)	**216**														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour porpoise *Phocoena phocoena*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
Grey seal *Halichoerus grypus*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
Harbour seal *Phoca vitulina*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)

a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraph 218 and 219 for harbour seal, paragraphs 189 and 190 for grey seal and paragraphs 167 and 168 for harbour porpoise of the HRA Screening Report (APP-044)).

Site	**45**
Name of European Site:	**Dornoch Firth and Loch Fleet SPA & Ramsar**
Distance to East Anglia ONE North (km)	**717 (windfarm site) and 713 (offshore cable corridor)**

Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Wintering and passage waterbird assemblage including as named features curlew, dunlin, greylag goose, wigeon, bar-tailed godwit, teal, oystercatcher		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (c)	N (c)	N (c)
Breeding osprey		N (b)		N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)

a) Survey data show little or no evidence of these features occurring in the East Anglia ONE North site, and migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North site (see section 5.1 of Appendix 12.2 (APP-470), none of these species/SPA features were recorded in the East Anglia ONE North windfarm site).

b) Osprey has not been observed in the East Anglia ONE North site, and it is improbable than any ospreys from the SPA migrate through the East Anglia ONE North site (see section 5.1 of Appendix 12.2 (APP-470), this species was not recorded in the East Anglia ONE North windfarm site).

c) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features (see Table 8.2 of the HRA Screening Report (APP-044).

Site	46														
Name of European Site:	Dornoch Firth and Morrich More SAC														
Distance to East Anglia ONE North (km)	760														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour seal *Phoca vitulina*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraph 218 and 219 of the HRA Screening Report (APP-044).															

Site	**47**														
Name of European Site:	**Dråby Vig SAC**														
Distance to East Anglia ONE North (km)	**663**														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour seal *Phoca vitulina*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)

a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraph 218 and 219 of the HRA Screening Report (APP-044).

Site	48														
Name of European Site:	Dünenlandschaft Süd-Sylt SAC														
Distance to East Anglia ONE North (km)	459														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Grey seal *Halichoerus grypus*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 189 and 190 and Table 7.3 of the HRA Screening Report (APP-044)).															

Site	**49**																	
Name of European Site:	**Dunes De La Plaine Maritime Flamande SAC**																	
Distance to East Anglia ONE North (km)	**134 (windfarm site) and 129 (offshore cable corridor)**																	
Marine Mammals																		
Site Features	Likely effect(s) of East Anglia ONE North																	
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination					
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D			
Harbour seal	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)			
Benthic Habitats																		
Site Features	Permanent loss			Temporary physical disturbance			Smothering due to increased suspended sediment			Re- mobilisation of contaminate d sediments			Underwater noise and vibration			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Sandbanks which are slightly covered by sea water all the time	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)		N (b)	N (b)		N (b)	N (b)	N (b)	N (b)
Mudflats and sandflats not covered by seawater at low tide	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)		N (b)	N (b)		N (b)	N (b)	N (b)	N (b)

Site	**49**
Name of European Site:	**Dunes De La Plaine Maritime Flamande SAC**
Distance to East Anglia ONE North (km)	**134 (windfarm site) and 129 (offshore cable corridor)**

a) The distance between the potential impact range of East Anglia ONE North and the site is beyond that of potential for direct or indirect effects (see paragraph 218 and 219 of the HRA Screening Report (APP-044).

b) As it has been agreed through the scoping and Evidence Plan Process (EPP) (see Appendix 9.1 (APP-458) that transboundary effects are scoped out for EIA (given the distance to sites in other Members States jurisdictions) these have also been screened out from consideration for HRA purposes.

Site	**50**											
Name of European Site:	**East Caithness Cliffs SPA**											
Distance to East Anglia ONE North (km)	**735 (windfarm site) and 732 (offshore cable corridor)**											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Breeding seabird assemblage including as named features cormorant, guillemot, herring gull, puffin *Fratercula arctica*, razorbill, shag, fulmar and great black-backed gull		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (c)	N (c)	N (c)
Breeding peregrine *Falco peregrinus*		N (b)		N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)

a) East Caithness Cliffs SPA is beyond maximum foraging range of designated seabird species so has no breeding season connectivity. Proportions of these populations migrating through the East Anglia ONE North site are small relative to BDMPS (see Table 8.2 of the HRA Screening Report (APP-044).

b) Peregrines breeding in the UK normally remain close to their breeding areas throughout the year, and are therefore very unlikely to migrate offshore (see Table 8.2 of the HRA Screening Report (APP-044).

c) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at East Caithness Cliffs SPA (see Table 8.2 of the HRA Screening Report (APP-044).

Site	**51**
Name of European Site:	**Essex Estuaries SAC**
Distance to East Anglia ONE North (km)	**73 (offshore cable corridor)**

Benthic Features

Site Features	Likely effect(s) of East Anglia ONE North																	
	Permanent loss			Temporary physical disturbance			Smothering due to increased suspended sediment			Re- mobilisation of contaminated sediments			Underwater noise and vibration			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Estuaries	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)		N (a)	N (a)		N (a)	N (a)	N (a)	N (a)
Mudflats and sandflats not covered by seawater at low tide	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)		N (a)	N (a)		N (a)	N (a)	N (a)	N (a)

a) The distance between the offshore project area and the designated site is beyond the range of any potential LSE. Indirect far-field effects are limited to 1km of the works and for the duration of 1 tidal cycle (see paragraph 118 of APP-044).

Marine Mammals

Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D

Site Name of European Site: Distance to East Anglia ONE North (km)	51 Essex Estuaries SAC 73 (offshore cable corridor)														
Harbour seal *Phoca vitulina*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)

a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 218 and 219 and Table 7.3 of the HRA Screening Report (APP-044)).

Site	**52**														
Name of European Site:	**Estuaire De La Canche, Dunes Picardes Plaquees Sur L'ancienne Falaise, Foret D'hardelot Et Falaise D'equihen SAC**														
Distance to East Anglia ONE North (km)	**187**														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour seal *Phoca vitulina*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 218 and 219 and Table 7.3 of the HRA Screening Report (APP-044)).															

Site	**53**														
Name of European Site:	**Estuaire de la Seine SCI**														
Distance to East Anglia ONE North (km)	**356**														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour seal *Phoca vitulina*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 218 and 219 and Table 7.3 of the HRA Screening Report (APP-044)).															

Site	**54**
Name of European Site:	**Estuaires et littoral picards (baies de Somme et d'Authie) SAC**
Distance to East Anglia ONE North (km)	**221 (windfarm site) and 199 (offshore cable corridor)**

Marine Mammals

Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Grey seal *Halichoerus grypus*	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)		N (a)	N (a)	N (a)	N (a)
Harbour seal *Phoca vitulina*	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)		N (a)	N (a)	N (a)	N (a)

Fish

Site Features	Likely effect(s) of East Anglia ONE North																				
	Permanent habitat loss			Temporary physical disturbance			Smothering due to increased suspended sediment			Re- mobilisation of contaminated sediments			Underwater noise and vibration			Electromagnetic fields (EMF)			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
River lamprey	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)

a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 189 and 190, paragraphs 218 and 219 and Table 7.3 of the HRA Screening Report (APP-044)).

Site	**54**
Name of European Site:	**Estuaires et littoral picards (baies de Somme et d'Authie) SAC**
Distance to East Anglia ONE North (km)	**221 (windfarm site) and 199 (offshore cable corridor)**

b) It was agreed as part of the East Anglia ONE North Scoping Report that transboundary impacts on fish would be scoped out of the EIA. We have therefore screened them out from consideration in the HRA and Evidence Plan Process (EPP) Appendix 10.1 (APP-462).

Site	**55**											
Name of European Site:	**Exe Estuary SPA & Ramsar**											
Distance to East Anglia ONE North (km)	**443 (windfarm site) and 397 (offshore cable corridor)**											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Migratory waterbird assemblage including as named features brent goose, dunlin, oystercatcher, black-tailed godwit, grey plover, Slavonian grebe *Podiceps auritus*, avocet		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (b)	N (b)	N (b)

a) Survey data show little or no evidence of Exe Estuary SPA features occurring in the East Anglia ONE North site, and migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North site (see section 5.1 of Appendix 12.2 (APP-470), none of these species/SPA features were recorded in the East Anglia ONE North windfarm site) (see Table 8.2 of the HRA Screening Report (APP-044)).

b) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Exe Estuary SPA & Ramsar (see Table 8.2 of the HRA Screening Report (APP-044)).

Site	**56**
Name of European Site:	**Fair Isle SPA**
Distance to East Anglia ONE North (km)	**827**

Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Breeding seabird assemblage including as named features Arctic skua *Stercorarius parasiticus*, fulmar, gannet, great skua *Stercorarius skua*, puffin, razorbill, Arctic tern, guillemot, kittiwake, shag		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (c)	N (c)	N (c)
Fair Isle wren		N (b)		N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)

a) Fair Isle SPA is beyond maximum foraging range of designated seabird species so has no breeding season connectivity. Proportions of these populations migrating through the East Anglia ONE North site are likely to be very small relative to BDMPS (see Table 8.2 of the HRA Screening Report (APP-044)).

b) Fair Isle wren is a resident Shetland subspecies that is thought never to leave the island (see Table 8.2 of the HRA Screening Report (APP-044)).

c) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Fair Isle SPA (see Table 8.2 of the HRA Screening Report (APP-044)).

Site	57										
Name of European Site:	Falaise du Bessin Occidental SPA										
Distance to East Anglia ONE North (km)	396										
Site Features	Likely effect(s) of East Anglia ONE North										
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Breeding kittiwake, herring gull, lesser black-backed gull, fulmar		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (g)	N (g)	N (g)
Nonbreeding red-throated diver		N (b)		N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (g)	N (g)	N (g)
Nonbreeding cormorant, shag, red-breasted merganser		N (c)		N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (g)	N (g)	N (g)
Nonbreeding guillemot, razorbill		N (d)		N (d)	N (d)	N (d)	N (d)	N (d)	N (d)	N (g)	N (g)	N (g)
Nonbreeding peregrine, short-eared owl *Asio flammeus*		N (e)		N (e)	N (e)	N (e)	N (e)	N (e)	N (e)	N (g)	N (g)	N (g)
Breeding Dartford warbler *Sylvia undata*		N (f)		N (f)	N (f)	N (f)	N (f)	N (f)	N (f)	N (f)	N (f)	N (f)

a) The SPA is far beyond maximum foraging range of designated seabird species so has no breeding season connectivity. Proportions of these populations migrating through the East Anglia ONE North site are likely to be extremely small relative to BDMPS, as these species are likely to migrate into the Atlantic rather than northwards into the North Sea in autumn, and are unlikely to pass through the North Sea in spring (see Table 8.2 of the HRA Screening Report (APP-044)).

b) Nonbreeding red-throated divers at this SPA are likely to include birds from Scandinavia and the UK, especially juveniles which winter further south than adults. Their migrations between breeding grounds and the SPA probably take most individuals along the continental coast of Europe rather than across the North Sea. Small numbers may cross the North Sea towards the UK or Icelandic breeding grounds. However, red-throated divers tend to fly low over the sea so will be at very low risk of collision. Red-throated divers strongly avoid disturbance and offshore wind farms and so may

Site	57											
Name of European Site:	Falaise du Bessin Occidental SPA											
Distance to East Anglia ONE North (km)	396											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D

have to fly further by flying around the East Anglia ONE North site rather than through the wind farm. However, in the context of a migration of over 1000km, the extra distance flown to pass an offshore wind farm represents a negligible increase in energy expenditure for the very few individuals that might be affected (see Table 8.2 of the HRA Screening Report (APP-044)).

c) Cormorants, shags and red-breasted mergansers do not normally occur at the East Anglia ONE North site based on bird survey data (see section 5.1 of Appendix 12.2 (APP-470). Furthermore, these species tend to fly low over the sea and so would be at negligible risk of collision, and do not show displacement or barrier effects. Indeed, cormorants seem to benefit from offshore wind farm structures permitting them to extend foraging range offshore, and the same may be true for shag and red-breasted merganser which may also benefit from foraging opportunities around turbine bases.

d) Nonbreeding guillemots and razorbills fly low over the sea and so are at very low risk of collision. However, they are partially displaced from offshore wind farms and may fly around rather than through offshore wind farms. A very small proportion of the guillemots and razorbills from this SPA might migrate through the East Anglia ONE North site towards breeding areas further north, but the area of foraging habitat lost to these birds if they avoid the East Anglia ONE North site would be negligible in relation to the wider area of the North Sea and Channel over which they forage, and the increase in migration distance to fly around rather than through the wind farm would be negligible in relation to a migration distance of hundreds of kilometres (see Table 8.2 of the HRA Screening Report (APP-044)).

e) Peregrines in western Europe do not normally migrate, so would be extremely unlikely to move between this SPA and the East Anglia ONE North site. Short-eared owls are more migratory, and sometimes cross the North Sea, but since this SPA is 396km from the East Anglia ONE North site, the chances of a short-eared owl from the SPA passing through the East Anglia ONE North site are extremely small (see Table 8.2 of the HRA Screening Report (APP-044)).

f) Dartford warbler is a resident species that is unlikely to move from this SPA (see Table 8.2 of the HRA Screening Report (APP-044)).

Site	**57**											
Name of European Site:	**Falaise du Bessin Occidental SPA**											
Distance to East Anglia ONE North (km)	**396**											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
g) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Falaise du Bessin Occidental SPA (see Table 8.2 of the HRA Screening Report (APP-044)).												

Site	**58**
Name of European Site:	**Falaises du Cran aux Oeufs et du Cap Gris-Nez, Dunes du Chatelet, Marais de Tardinghen et Dunes de Wissant SAC**
Distance to East Anglia ONE North (km)	**162 (windfarm site) and 142 (offshore cable corridor)**

Marine Mammals

Site Features	Likely effect(s) of East Anglia ONE North															
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination			
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	
Harbour porpoise *Phocoena phocoena*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)	
Grey seal *Halichoerus grypus*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)	
Harbour seal *Phoca vitulina*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)	

Benthic Habitats

Site Features	Permanent loss			Temporary physical disturbance			Smothering due to increased suspended sediment			Re- mobilisation of contaminate d sediments			Underwater noise and vibration			**In-combination**		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	**D**
Sandbanks which are slightly covered by sea water all the time	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)		N (b)	N (b)		N (b)	N (b)	N (b)	N (b)
Mudflats and sandflats not covered by	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)		N (b)	N (b)		N (b)	N (b)	N (b)	N (b)

Site	58																	
Name of European Site:	Falaises du Cran aux Oeufs et du Cap Gris-Nez, Dunes du Chatelet, Marais de Tardinghen et Dunes de Wissant SAC																	
Distance to East Anglia ONE North (km)	162 (windfarm site) and 142 (offshore cable corridor)																	
seawater at low tide																		
Reefs	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)		N (b)	N (b)		N (b)	N (b)	N (b)	N (b)

a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 218 and 219 for harbour seal, paragraphs 189 and 190 for grey seal and paragraphs 167 and 168 for harbour porpoise of the HRA Screening Report (APP-044)..

b) As it has been agreed through the scoping and Evidence Plan Process (EPP) (see Appendix 9.1 (APP-458) that transboundary effects are scoped out for EIA (given the distance to sites in other Members States jurisdictions) these have also been screened out from consideration for HRA purposes.

Site	**59**														
Name of European Site:	**Faray and Holm of Faray SAC**														
Distance to East Anglia ONE North (km)	**820**														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Grey seal *Halichoerus grypus*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 189 and 190 and Table 7.3 of the HRA Screening Report (APP-044)).															

Site	60											
Name of European Site:	Farne Islands SPA											
Distance to East Anglia ONE North (km)	483											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Breeding Arctic tern, common tern, Sandwich tern		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (b)	N (b)	N (b)
Roseate Tern		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (b)	N (b)	N (b)
Guillemot		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (b)	N (b)	N (b)
Seabird Assemblage		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (b)	N (b)	N (b)

a) Farne Islands SPA is beyond maximum foraging range of these designated seabird species so has no breeding season connectivity. Proportions of these populations migrating through the East Anglia ONE North site are likely to be very small relative to BDMPS (see Table 8.2 of the HRA Screening Report (APP-044).

b) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Farne Islands SPA (see Table 8.2 of the HRA Screening Report (APP-044).

Site	**61**
Name of European Site:	**Fetlar SPA**
Distance to East Anglia ONE North (km)	**922**

Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Breeding seabird assemblage including as named features Arctic skua, fulmar, great skua, Arctic tern		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (c)	N (c)	N (c)
Breeding dunlin, whimbrel *Numenius phaeopus*, red-necked phalarope *Phalaropus lobatus*		N (b)		N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)

a) Fetlar SPA is beyond the maximum foraging range of designated seabird species so has no breeding season connectivity. Proportions of these populations migrating through the East Anglia ONE North site are small relative to BDMPS (see Table 8.2 of the HRA Screening Report (APP-044).

b) Dunlin, whimbrel and red-necked phalarope have not been observed migrating through the East Anglia ONE North site (see section 5.1 of Appendix 12.2 (APP-470). Red-necked phalaropes from Fetlar SPA have been tracked by geolocator and migrate from Shetland to the Pacific Ocean via Iceland, Greenland and Canada, and so would not pass near to East Anglia ONE North (see Table 8.2 of the HRA Screening Report (APP-044). Dunlin and whimbrel from Fetlar SPA migrate south, but are unlikely to pass through the East Anglia ONE North site (see Table 8.2 of the HRA Screening Report (APP-044).

c) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Fetlar SPA (see Table 8.2 of the HRA Screening Report (APP-044).

Site	**62**
Name of European Site:	**Firth of Forth SPA & Ramsar**
Distance to East Anglia ONE North (km)	**509**

Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Wintering and passage waterbird assemblage including as named features curlew, dunlin, goldeneye, great crested grebe, knot, lapwing, mallard *Anas platyrhynchos,* pink-footed goose *Anser brachyrhynchus*, red-breasted merganser, ringed plover, Sandwich tern, Slavonian grebe, turnstone, wigeon, common scoter *Melanitta nigra*, golden plover, long-tailed duck *Clangula hyemalis*, redshank, shelduck, bar-tailed godwit, cormorant, eider *Somateria mollissima*, grey plover, oystercatcher, red-throated diver, scaup, velvet scoter *Melanitta fusca*		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (b)	N (b)	N (b)

a) Migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North site during migration. Therefore, proportions of these populations migrating through the East Anglia ONE North site are likely to be extremely small relative to BDMPS (see Table 8.2 of the HRA Screening Report (APP-044).

b) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Firth of Forth SPA & Ramsar (see Table 8.2 of the HRA Screening Report (APP-044).

Site	**63**											
Name of European Site:	**Firth of Tay & Eden Estuary SPA & Ramsar**											
Distance to East Anglia ONE North (km)	**550**											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Wintering and passage waterbird assemblage including as named features common scoter, cormorant, eider, goosander *Mergus merganser*, grey plover, long-tailed duck, red-breasted merganser, sanderling, velvet scoter, dunlin, greylag goose, redshank, oystercatcher, bar-tailed godwit, goldeneye, Icelandic black-tailed godwit *Limosa limosa islandica*, pink-footed goose		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (d)	N (d)	N (d)
Breeding marsh harrier		N (b)		N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)
Breeding little tern		N (c)		N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)

a) Survey data show little or no evidence of Firth of Tay & Eden Estuary SPA features occurring in the East Anglia ONE North site (see section 5.1 of Appendix 12.2 (APP-470), and migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North site (see Table 8.2 of the HRA Screening Report (APP-044).

b) Marsh harrier is a migrant species. Satellite tracking suggests that marsh harriers from Scotland migrate overland to the south coast of England and over the Channel to France, rather than across the North Sea, and so are unlikely to pass through the East Anglia ONE North site (see Table 8.2 of the HRA Screening Report (APP-044).

c) Breeding little tern has a maximum foraging range of 11km from colonies, so would have no connectivity with the East Anglia ONE North site. Migrating little terns are considered to be 'extremely coastal on passage with very few sightings in open ocean or inland' (Forrester et al. 2007), so are unlikely to pass through the East Anglia ONE North site (see Table 8.2 of the HRA Screening Report (APP-044).

d) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Firth of Tay & Eden Estuary SPA & Ramsar (see Table 8.2 of the HRA Screening Report (APP-044).

Site	**64**
Name of European Site:	**Firth of Tay & Eden Estuary SAC**
Distance to East Anglia ONE North (km)	**555**

Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour seal *Phoca vitulina*	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)		N (a)	N (a)	N (a)	N (a)

a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 218 and 219 of the HRA Screening Report (APP-044)).

Site	**65**
Name of European Site:	**Flamborough and Filey Coast SPA**
Distance to East Anglia ONE North (km)	**246**

Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Breeding kittiwake		**Y (a)**		N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (c)	**Y (a)**	N (c)
Breeding gannet		**Y (a)**		N (d)	**Y (d)**	N (d)	N (e)	N (e)	N (e)	N (c)	**Y (a)**	N (c)
Breeding common guillemot		N (f)		N (g)	**Y (h)**	N (g)	N (g)	N (i)	N (g)	N (c)	**Y (h)**	N (c)
Breeding razorbill		N (f)		N (g)	**Y (h)**	N (g)	N (g)	N (i)	N (g)	N (c)	**Y (h)**	N (c)
Breeding puffin		N (f)		N (g)	**Y (h)**	N (g)	N (g)	N (i)	N (g)	N (c)	**Y (h)**	N (c)
Seabird assemblage		N (f)		N (g)	**Y (h)**	N (g)	N (g)	N (i)	N (g)	N (c)	**Y (h)**	N (c)

a) Band model estimates of collision mortality indicate that LSE cannot be ruled out at the Screening stage (see Appendix 12.1 Annex 4 (APP-470)).

b) Kittiwakes are not considered to be at risk of disturbance and displacement or barrier effects at offshore wind farms therefore LSE can be ruled out.

c) The predicted effect attributable to the proposed East Anglia ONE North project is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Flamborough and Filey Coast SPA (see Table 8.2 of the HRA Screening Report (APP-044).

d) Flamborough and Filey Coast SPA is 239km from East Anglia ONE North. Thaxter et al. (2012) report a mean foraging range of breeding gannets as 92.5km, and a maximum recorded distance of 590km. East Anglia ONE North is therefore considerably beyond the mean foraging range of breeding gannets, but within their maximum range (see paragraph 269 of the HRA Screening Report (APP-044). Breeding gannets from Flamborough & Filey Coast SPA may therefore be affected by displacement (see Table 8.2 of the HRA Screening Report (APP-044). Searle et al. (2014) found that even for offshore wind farms considerably closer to a gannet breeding colony than under consideration here, impacts of displacement were negligible for

Site	**65**
Name of European Site:	**Flamborough and Filey Coast SPA**
Distance to East Anglia ONE North (km)	**246**

this species because of its very long foraging range and large area used for foraging. Similarly, impacts of displacement during migration are considered likely to be negligible. Nonetheless, Natural England consider that an LSE cannot be ruled out at the Screening stage.

e) Gannets are not considered at risk of barrier effects due to their wide ranging habits (see (d)), and migrating gannets cover very large distances, extending from the North Sea to West Africa, so that slight local effects would be negligible in the context of their large migrations and area use, therefore LSE can be ruled out.

f) Common guillemots, razorbills and puffins tend to fly low over the sea so have a very low risk of collision mortality, therefore LSE can be ruled out (see Table 8.2 of the HRA Screening Report (APP-044).

g) Construction and decommissioning impacts are temporary and localised therefore LSE can be ruled out.

h) Flamborough and Filey Coast SPA is 216km from East Anglia ONE North. Thaxter et al. (2012) report a mean foraging range of breeding common guillemots as 37.8km, and a maximum recorded distance of 135km. Thaxter et al. (2012) report a mean foraging range of breeding razorbills as 23.7km, and a maximum recorded distance of 95km. Thaxter et al. (2012) report a mean foraging range of breeding puffin as 4km, and a maximum recorded distance of 200km. East Anglia ONE North is therefore considerably beyond the normal foraging range of these species from Flamborough and Filey Coast SPA. It is therefore unlikely that any breeding adults from Flamborough and Filey Coast SPA will be present at East Anglia ONE North during the breeding season. During the nonbreeding season, birds from Flamborough and Filey Coast SPA are likely to be mixed with the large BDMPS populations of these species so that apportioning of the impact of the low level of displacement mortality generates a negligible impact to Flamborough and Filey Coast SPA. Nonetheless, Natural England consider that an LSE cannot be ruled out at the Screening stage (see paragraph 271 of the HRA Screening Report (APP-044).

i) Since East Anglia ONE North is beyond the normal foraging range of breeding common guillemots, razorbills and puffins from Flamborough and Filey Coast SPA, there will be no breeding season barrier impact for those populations. During the nonbreeding period birds from Flamborough and Filey Coast SPA are likely to be mixed with the large BDMPS populations of these species so that apportioning of the impact of the low level of displacement to this very large BDMPS population apportions a negligible impact to Flamborough and Filey Coast SPA (see paragraph 269 of the HRA Screening Report (APP-044).

Site **Name of European Site:** **Distance to East Anglia ONE North (km)**	**66** **Flamborough Head SAC** **235 (offshore cable corridor)**																	
Site Features	Likely effect(s) of East Anglia ONE North																	
	Permanent loss			Temporary physical disturbance			Smothering due to increased suspended sediment			Re- mobilisation of contaminated sediments			Underwater noise and vibration			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Submerged or partially submerged sea caves	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)		N (a)	N (a)		N (a)	N (a)	N (a)	N (a)

a) The distance between the offshore project area and the designated site is beyond the range of any potential LSE. Indirect far-field effects are limited to 1km of the works and for the duration of 1 tidal cycle (see paragraph 118 of APP-044)

Site	**67**
Name of European Site:	**Forth Islands SPA**
Distance to East Anglia ONE North (km)	**514**

Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Breeding seabird assemblage including as named features gannet, kittiwake, lesser black-backed gull, roseate tern, Sandwich tern, guillemot, razorbill, fulmar, common tern, Arctic tern, cormorant, herring gull, puffin, shag		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (b)	N (b)	N (b)

a) Forth Islands SPA is beyond maximum foraging range of designated seabird species so has no breeding season connectivity. Proportions of these populations migrating through the East Anglia ONE North site are small relative to BDMPS (see Table 8.2 of the HRA Screening Report (APP-044).

b) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Forth Islands SPA (see Table 8.2 of the HRA Screening Report (APP-044).

Site	**68**											
Name of European Site:	**Foula SPA**											
Distance to East Anglia ONE North (km)	**901**											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Breeding seabird assemblage including as named features Arctic tern, fulmar, guillemot, razorbill, red-throated diver, Arctic skua, kittiwake, shag, Leach's storm-petrel *Oceanodroma leucorhoa*, great skua, puffin		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (b)	N (b)	N (b)

a) Foula SPA is beyond maximum foraging range of designated seabird species so has no breeding season connectivity. Proportions of these populations migrating through the East Anglia ONE North site are small relative to BDMPS (see Table 8.2 of the HRA Screening Report (APP-044).

b) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Foula SPA (see Table 8.2 of the HRA Screening Report (APP-044).

Site	**69**											
Name of European Site:	**Foulness SPA and Ramsar**											
Distance to East Anglia ONE North (km)	**113 (windfarm site) and 69 (offshore cable corridor)**											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Wintering and passage waterbird assemblage including as named features brent goose, knot, oystercatcher, bar-tailed godwit, grey plover, avocet, redshank		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (e)	N (e)	N (e)
Nonbreeding hen harrier		N (b)		N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (e)	N (e)	N (e)
Breeding ringed plover, avocet		N (c)		N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)
Breeding little tern, common tern, Sandwich tern		N (d)		N (d)	N (d)	N (d)	N (d)	N (d)	N (d)	N (d)	N (d)	N (d)

a) Survey data show little or no evidence of Foulness SPA features occurring in the East Anglia ONE North site, and migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North site during migration (see section 5.1 of Appendix 12.2 (APP-470).

b) Survey data show no evidence of hen harrier occurring in the East Anglia ONE North site, and migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North site during migration, as the species is likely to migrate overland rather than over sea where the option is available (see section 5.1 of Appendix 12.2 (APP-470), none of these species/SPA features were recorded in the East Anglia ONE North windfarm site) (see Table 8.2 of the HRA Screening Report (APP-044)).

c) Ringed plover and avocet have not been observed during bird site-specific surveys (see section 5.1 of Appendix 12.2 (APP-470). It is highly unlikely that these birds would migrate through the East Anglia ONE North site as their migration is likely to take a coastal route and cross sea at narrow

Site	**69**
Name of European Site:	**Foulness SPA and Ramsar**
Distance to East Anglia ONE North (km)	**113 (windfarm site) and 69 (offshore cable corridor)**

points such as The English Channel. If they did migrate through the East Anglia ONE North site their flight height is likely not to be at collision risk height. (see Table 8.2 of the HRA Screening Report (APP-044)).

d) Little tern, common tern and Sandwich tern have maximum foraging ranges from colonies of 11km, 30km and 54km respectively, so there is no connectivity between the SPA and East Anglia ONE North site. Furthermore, these species tend to forage in coastal waters rather than offshore. Therefore, collision risk, displacement and barrier effects can be excluded (see Table 8.2 of the HRA Screening Report (APP-044)).

e) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Foulness SPA and Ramsar (see Table 8.2 of the HRA Screening Report (APP-044)).

Site	70											
Name of European Site:	Fowlsheugh SPA											
Distance to East Anglia ONE North (km)	575											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Breeding seabird assemblage including as named features fulmar, guillemot, kittiwake, razorbill, herring gull		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (b)	N (b)	N (b)

a) Fowlsheugh SPA is beyond maximum foraging range of designated seabird species so has no breeding season connectivity. Proportions of these populations migrating through the East Anglia ONE North site are likely to be very small relative to BDMPS (see Table 8.2 of the HRA Screening Report (APP-044)).

b) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Fowlsheugh SPA (see Table 8.2 of the HRA Screening Report (APP-044)).

Site	71											
Name of European Site:	Frisian Front SPA											
Distance to East Anglia ONE North (km)	154											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Nonbreeding common guillemot, great skua, great black-backed gull, lesser black-backed gull		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (b)	N (b)	N (b)

a) Migrations of birds from this pSPA are likely to result in negligible numbers passing through the East Anglia ONE North site during migration relative to the size of BDMPS regional populations (see Table 8.2 of the HRA Screening Report (APP-044)).

b) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Frisian Front pSPA (see Table 8.2 of the HRA Screening Report (APP-044)).

Site	**72**											
Name of European Site:	**Gibraltar Point SPA and Ramsar**											
Distance to East Anglia ONE North (km)	**151 (windfarm site) and 131 (offshore cable corridor)**											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Nonbreeding sanderling, bar-tailed godwit, grey plover		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (c)	N (c)	N (c)
Breeding little tern		N (b)		N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)

a) Survey data show no evidence of Gibraltar Point SPA features (sanderling, bar-tailed godwit, grey plover) occurring in the East Anglia ONE North site (see section 5.1 of Appendix 12.2 (APP-470), and migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North site during migration (see Table 8.2 of the HRA Screening Report (APP-044)).

b) Breeding little tern has a maximum foraging range of 11km (Thaxter et al. 2012) from colonies, so would have no connectivity with the East Anglia ONE North site. Migrating little terns are considered to be 'extremely coastal on passage with very few sightings in open ocean or inland' (Forrester et al. 2007), so are unlikely to pass through the East Anglia ONE North site (see Table 8.2 of the HRA Screening Report (APP-044)).

c) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Gibraltar Point SPA and Ramsar (see Table 8.2 of the HRA Screening Report (APP-044)).

Site	**73**											
Name of European Site:	**Great Yarmouth and North Denes SPA**											
Distance to East Anglia ONE North (km)	**33**											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Breeding little tern		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (b)	N (b)	N (b)

a) Great Yarmouth & North Denes SPA is beyond the maximum foraging range of little tern (11km) and foraging tends to be coastal so has no breeding season connectivity. Proportions of this population migrating through the East Anglia ONE North site are likely to be small as the species is thought to remain close to shore during much of its migration through UK waters (see Table 8.2 of the HRA Screening Report (APP-044)).

b) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Great Yarmouth & North Denes SPA (see Table 8.2 of the HRA Screening Report (APP-044)).

Site	**74**											
Name of European Site:	**Greater Wash SPA**											
Distance to East Anglia ONE North (km)	**39 (offshore windfarm site) and 32 (offshore cable corridor)**											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Breeding seabirds (little tern, common tern, Sandwich tern)		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)
Nonbreeding red-throated diver		N (b)		**Y (c)**	**Y (i)**	N (d)	N (b)	N (b)	N (b)	**Y (c)**	**Y (i)**	N (h)
Nonbreeding little gull		**Y (e)**		N (f)	N (f)	N (f)	N (f)	N (f)	N (f)	N (h)	**Y (e)**	N (h)
Nonbreeding common scoter		N (g)		N (g)	N (g)	N (g)	N (g)	N (g)	N (g)	N (h)	N (h)	N (h)

a) Little tern, common tern and Sandwich tern have maximum foraging ranges from colonies of 11km, 30km and 54km respectively, which suggests potential connectivity between the SPA and the East Anglia ONE North site. However, the tern colonies are at locations along the Norfolk coast which are beyond these foraging distances from the East Anglia ONE North site. Therefore, connectivity between the SPA and East Anglia ONE North site is ruled out on the basis of distance. Furthermore, these species tend to forage in coastal waters rather than offshore. Hence, collision risk, displacement and barrier effects can be excluded. (see paragraph 272 of the HRA Screening Report (APP-044))

b) Red-throated divers fly close to the sea surface and are therefore at extremely low risk of collisions or barrier effects.

c) LSE cannot be ruled out at screening for impacts of Displacement/Disturbance to nonbreeding red-throated divers as a result of construction work (specifically for export cable laying operations through part of the Greater Wash SPA) (see paragraph 273 of the HRA Screening Report (APP-044)).

d) Displacement/Disturbance of red-throated diver during operation and decommissioning is considered negligible as the increase in vessel traffic within the SPA due to East Anglia ONE North will be negligible compared to the current baseline (see paragraph 273 of the HRA Screening Report (APP-044)).

Site	**74**
Name of European Site:	**Greater Wash SPA**
Distance to East Anglia ONE North (km)	**39 (offshore windfarm site) and 32 (offshore cable corridor)**

e) There is potential for little gull connectivity between the SPA and the East Anglia ONE North site, therefore LSE cannot be ruled out at screening for collision risk impacts to nonbreeding little gull.

f) Displacement of little gulls by offshore windfarms appears to be negligible**, indicating no LSE for this SPA feature as a consequence of displacement or barrier effects (see paragraph 264 of the Information to Support Appropriate Assessment Report (APP-043)).

g) Surveys found no common scoters in the East Anglia ONE North site since this species favours waters <20m in depth (see section 5.1 of Appendix 12.2 (APP-470). Common scoter was also only present at very low densities along the export cable route, therefore no LSE for this SPA feature is predicted.

h) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Greater Wash SPA (see Table 8.2 of the HRA Screening Report (APP-044).

i) Following advice from Natural England it is considered that Operations and Maintenance vessels may disturb red-throated divers whilst transiting through the SPA therefore an LSE cannot be screened out (see Appendix 12.1 (APP-469)).

Site	**75**														
Name of European Site:	**Gule Rev SCI**														
Distance to East Anglia ONE North (km)	**636**														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour porpoise *Phocoena phocoena*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 167 and 168 of the HRA Screening Report (APP-044)).															

Site	**76**														
Name of European Site:	**Gullmarsfjorden SAC**														
Distance to East Anglia ONE North (km)	**855**														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour seal *Phoca vitulina*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)

a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 218 and 219 for harbour porpoise of the HRA Screening Report (APP-044)).

Site	**77**																	
Name of European Site:	**Haisborough, Hammond and Winterton SAC**																	
Distance to East Anglia ONE North (km)	**22 (windfarm site) and 35 (offshore cable corridor)**																	
Site Features	Likely effect(s) of East Anglia ONE North																	
	Permanent loss/Introduction of new sediment			Temporary physical disturbance			Smothering due to increased suspended sediment			Re- mobilisation of contaminated sediments			Underwater noise and vibration			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Sandbanks which are slightly covered by sea water all the time	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)		N (a)	N (a)		N (a)	N (a)	N (a)	N (a)
Reefs	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)		N (a)	N (a)		N (a)	N (a)	N (a)	N (a)

a) Within range of theoretical indirect effect (sediment deposition) but effect negligible. Features are primarily sedimentary. For the purposes of HRA screening indirect far-field effects are limited to 1km of the works and for the duration of 1 tidal cycle (see paragraph 118 of APP-044).

Site	78														
Name of European Site:	Hamburgisches Wattenmeer SCI														
Distance to East Anglia ONE North (km)	419														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour porpoise	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
Grey seal	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
Harbour seal	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)

a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 218 and 219 for harbour seal, paragraphs 189 and 190 for grey seal and paragraphs 167 and 168 for harbour porpoise of the HRA Screening Report (APP-044)).

Site	79											
Name of European Site:	Hamford Water SPA and Ramsar											
Distance to East Anglia ONE North (km)	86 (windfarm site) and 38 (cable corridor)											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Wintering and passage waterbird assemblage including as named features teal, brent goose, ringed plover, black-tailed godwit, grey plover, avocet, shelduck, redshank		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (c)	N (c)	N (c)
Breeding little tern		N (b)		N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)

a) Survey data show little or no evidence of Hamford Water SPA features occurring in the East Anglia ONE North site (see section 5.1 of Appendix 12.2 (APP-470), and migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North site during migration (see Table 8.2 of the HRA Screening Report (APP-044)).

b) Breeding little tern has a maximum foraging range of 11km from colonies, so would have no connectivity with the East Anglia ONE North site. Migrating little terns are considered to be 'extremely coastal on passage with very few sightings in open ocean or inland' (Forrester et al. 2007), so are unlikely to pass through the East Anglia ONE North site (see Table 8.2 of the HRA Screening Report (APP-044)).

c) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Hamford Water SPA and Ramsar (see Table 8.2 of the HRA Screening Report (APP-044)).

Site	**80**														
Name of European Site:	**Havet omkring Nordre Rønner SAC**														
Distance to East Anglia ONE North (km)	**837km**														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater Noise			Vessel interactions			Indirect effects on prey			Changes to water quality			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D			
Grey seal	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)
Harbour seal	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)

a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE ((see paragraphs 218 and 219 for harbour seal and paragraphs 189 and 190 for grey seal, of the HRA Screening Report (APP-044))

Site	81														
Name of European Site:	Helgoland mit Helgolander Felssockel SAC														
Distance to East Anglia ONE North (km)	405														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour porpoise *Phocoena phocoena*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
Grey seal *Halichoerus grypus*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
Harbour seal *Phoca vitulina*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)

a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 218 and 219 for harbour seal, paragraphs 189 and 190 for grey seal and paragraphs 167 and 168 for harbour porpoise of the HRA Screening Report (APP-044)).

Site	**82**											
Name of European Site:	**Hermaness, Saxa Vord and Valla Field SPA**											
Distance to East Anglia ONE North (km)	**946**											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Breeding seabird assemblage including as named features gannet, guillemot, red-throated diver, puffin, fulmar, kittiwake, great skua, shag		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (b)	N (b)	N (b)

a) Hermaness, Saxa Vord & Valla Field SPA is beyond the maximum foraging range of designated seabird species so has no breeding season connectivity. Proportions of these populations migrating through the East Anglia ONE North site are likely to be very small relative to BDMPS (see Table 8.2 of the HRA Screening Report (APP-044)).

b) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Hermaness, Saxa Vord & Valla Field SPA (see Table 8.2 of the HRA Screening Report (APP-044)).

Site	83														
Name of European Site:	Hesselø med omliggende stenrev SAC														
Distance to East Anglia ONE North (km)	983														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Grey seal *Halichoerus grypus*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
Harbour seal *Phoca vitulina*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)

a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 218 and 219 for harbour seal and paragraphs 189 and 190 for grey seal of the HRA Screening Report (APP-044)).

Site	**84**														
Name of European Site:	**Hirsholmene, havet vest herfor og Ellinge Å's udløb SAC**														
Distance to East Anglia ONE North (km)	**814**														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Grey seal *Halichoerus grypus*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
Harbour seal *Phoca vitulina*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)

a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 218 and 219 for harbour seal and paragraphs 189 and 190 for grey seal of the HRA Screening Report (APP-044)).

Site	**85**											
Name of European Site:	**Hornsea Mere SPA**											
Distance to East Anglia ONE North (km)	**234**											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Nonbreeding gadwall, mute swan		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (b)	N (b)	N (b)

a) Survey data show no evidence of Hornsea Mere SPA features (gadwall, mute swan) occurring in the East Anglia ONE North site (see section 5.1 of Appendix 12.2 (APP-470), and migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North site (see Table 8.2 of the HRA Screening Report (APP-044).

b) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Hornsea Mere SPA (see Table 8.2 of the HRA Screening Report (APP-044).

Site	**86**											
Name of European Site:	**Hoy SPA**											
Distance to East Anglia ONE North (km)	**787**											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Breeding seabird assemblage including as named features Arctic skua, great black-backed gull, guillemot, kittiwake, red-throated diver, fulmar, puffin, great skua		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (c)	N (c)	N (c)
Breeding peregrine		N (b)		N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)

a) Hoy SPA is beyond maximum foraging range of designated seabird species so has no breeding season connectivity. Proportions of these populations migrating through the East Anglia ONE North site are small relative to BDMPS (see Table 8.2 of the HRA Screening Report (APP-044).

b) Peregrines breeding in the UK normally remain close to their breeding areas throughout the year, and are very unlikely to migrate offshore in the UK.

c) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Hoy SPA (see Table 8.2 of the HRA Screening Report (APP-044).

Site	**87**																			
Name of European Site:	**Humber Estuary SAC**																			
Distance to East Anglia ONE North (km)	**179 (windfarm site) and 173 (offshore cable corridor)**																			
Marine Mammals																				
Site Features	Likely effect(s) of East Anglia ONE North																			
	Underwater noise			Vessel Interactions and disturbance at seal haul outs			Indirect effects on prey			Changes to water quality			In-combination							
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D					
Grey seal	Y (a)	Y (a)	Y (a)	Y (a)	Y (a)	Y (a)	Y (a)	Y(a)	Y (a)	Y(a)		Y (a)	Y (a)	Y (a)	Y (a)					
Fish																				
Site Features	Likely effect(s) of East Anglia ONE North																			
	Permanent habitat loss			Temporary physical disturbance			Smothering due to increased suspended sediment			Re- mobilisation of contaminated sediments			Underwater noise and vibration			Electromagnetic fields (EMF)			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Sea Lamprey	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)
River lamprey	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)

Site	87																
Name of European Site:	Humber Estuary SAC																
Distance to East Anglia ONE North (km)	179 (windfarm site) and 173 (offshore cable corridor)																
Benthic habitats																	
Site Features	Permanent loss			Temporary physical disturbance			Smothering due to increased suspended sediment			Re- mobilisation of contaminate d sediments			Underwater noise and vibration			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Estuaries	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)
Mudflats and sandflats not covered by seawater at low tide	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)
Sandbanks which are slightly covered by sea water all the time	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)
Coastal lagoons	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)

a) Potential effects from underwater noise; vessel interactions; changes to water quality; changes to prey resources; and disturbance at seal haul-out sites cannot be ruled out (see Table 7.3 of the HRA Screening Report (APP-044).

b) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see Table 6.2 of the HRA Screening Report (APP-044).

c) The distance between the offshore project area and the designated site is beyond the range of any potential LSE. Indirect far-field effects are limited to 1km of the works and for the duration of 1 tidal cycle (see paragraph 118 of APP-044).

Site	88										
Name of European Site:	Humber Estuary SPA and Ramsar										
Distance to East Anglia ONE North (km)	179 (windfarm site) and 173 (offshore cable corridor)										
Site Features	Likely effect(s) of East Anglia ONE North										
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Wintering and passage waterbird assemblage including as named features teal, wigeon, mallard, turnstone, pochard, scaup, bittern, brent goose, goldeneye, sanderling, dunlin, knot, ringed plover, oystercatcher, bar-tailed godwit, black-tailed godwit, curlew, golden plover, grey plover, avocet, shelduck, redshank, lapwing, whimbrel, ruff, greenshank *Tringa nebularia*		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (g)	N (g)	N (g)
Nonbreeding hen harrier		N (b)		N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (g)	N (g)	N (g)
Breeding bittern		N (c)		N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (g)	N (g)	N (g)
Breeding marsh harrier		N (d)		N (d)	N (d)	N (d)	N (d)	N (d)	N (d)	N (d)	N (d)	N (d)
Breeding avocet		N (e)		N (e)	N (e)	N (e)	N (e)	N (e)	N (e)	N (g)	N (g)	N (g)
Breeding little tern		N (f)		N (f)	N (f)	N (f)	N (f)	N (f)	N (f)	N (f)	N (f)	N (f)

Site	**88**
Name of European Site:	**Humber Estuary SPA and Ramsar**
Distance to East Anglia ONE North (km)	**179 (windfarm site) and 173 (offshore cable corridor)**

a) Survey data show little or no evidence of Humber Estuary SPA features occurring in the East Anglia ONE North sites (see section 5.1 of Appendix 12.2 (APP-470), and migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North site during migration (see Table 8.2 of the HRA Screening Report (APP-044)).

b) Survey data show no evidence of Humber Estuary SPA feature hen harrier occurring in the East Anglia ONE North sites, and migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North site during migration as UK birds are likely to migrate overland rather than over the sea where possible (see Table 8.2 of the HRA Screening Report (APP-044)).

c) Bittern has not been observed during bird surveys at East Anglia ONE North (see section 5.1 of Appendix 12.2 (APP-470), and migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North site during migration (see Table 8.2 of the HRA Screening Report (APP-044)).

d) Marsh harrier is a migrant species. Satellite tracking suggests that marsh harriers migrate overland to the south coast of England and over the Channel to France, rather than across the North Sea.

e) Avocet has not been observed during bird site specific surveys. It is highly unlikely that these birds would migrate through the East Anglia ONE North site as their migration is likely to take a coastal route and cross sea at narrow points such as The English Channel. If they did migrate through the East Anglia ONE North site their flight height is likely not to be at collision risk height (see Table 8.2 of the HRA Screening Report (APP-044)).

f) Breeding little tern has a maximum foraging range of 11km from colonies, so would have no connectivity with East Anglia ONE North. Migrating little terns are considered to be ‘extremely coastal on passage with very few sightings in open ocean or inland’ (Forrester et al. 2007), so are unlikely to pass through the East Anglia ONE North site (see Table 8.2 of the HRA Screening Report (APP-044)).

g) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Humber Estuary SPA and Ramsar (see Table 8.2 of the HRA Screening Report (APP-044)).

Site	89														
Name of European Site:	Hund und Paapsand SCI														
Distance to East Anglia ONE North (km)	323														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour seal	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)

a) The distance between the potential impact range of the proposed project and the site is beyond that of potential for direct or indirect effects (see paragraphs 218 and 219 and Table 8.2 of the HRA Screening Report (APP-044)).

Site	**90**											
Name of European Site:	**Imperial Dock Lock, Leith SPA**											
Distance to East Anglia ONE North (km)	**532**											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Breeding common tern		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (b)	N (b)	N (b)

a) SPA is far beyond maximum foraging range of designated seabird species (common tern) so has no breeding season connectivity. Proportions of these populations migrating through East Anglia ONE North are small relative to BDMPS (see Table 8.2 of the HRA Screening Report (APP-044)).

b) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Imperial Dock Lock SPA (see Table 8.2 of the HRA Screening Report (APP-044)).

Site	**91**																	
Name of European Site:	**Inner Dowsing, Race Bank and North Ridge SAC**																	
Distance to East Anglia ONE North (km)	**110 (cable corridor)**																	
Site Features	Likely effect(s) of East Anglia ONE North																	
	Permanent loss			Temporary physical disturbance			Smothering due to increased suspended sediment			Re- mobilisation of contaminated sediments			Underwater noise and vibration			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Sandbanks which are slightly covered by sea water all the time	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)		N (a)	N (a)		N (a)	N (a)	N (a)	N (a)
Reefs	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)		N (a)	N (a)		N (a)	N (a)	N (a)	N (a)

a) The distance between the offshore project area and the designated site is beyond the range of any potential LSE. Indirect far-field effects are limited to 1km of the works and for the duration of 1 tidal cycle (see paragraph 118 of APP-044).

Site	92										
Name of European Site:	Inner Moray Firth SPA & Ramsar										
Distance to East Anglia ONE North (km)	701 (windfarm site) and 696 (offshore cable corridor)										
Site Features	Likely effect(s) of East Anglia ONE North										
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Wintering and passage waterbird assemblage including as named features bar-tailed godwit, curlew, goldeneye, greylag goose, redshank, wigeon, goosander, teal, red-breasted merganser, cormorant, oystercatcher, scaup		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (d)	N (d)	N (d)
Breeding osprey		N (b)		N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)
Breeding common tern		N (c)		N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (d)	N (d)	N (d)

a) Survey data show little or no evidence of Inner Moray Firth SPA features occurring in the East Anglia ONE North site (see section 5.1 of Appendix 12.2 (APP-470)), and migrations of birds from this SPA and Ramsar are likely to result in negligible numbers passing through the East Anglia ONE North site (see Table 8.2 of the HRA Screening Report (APP-044)).

b) Osprey has not been observed in the East Anglia ONE North site (see section 5.1 of Appendix 12.2 (APP-470), and it is extremely unlikely that any ospreys from the Inner Moray Firth SPA migrate through the East Anglia ONE North site (see Table 8.2 of the HRA Screening Report (APP-044))..

c) Inner Moray Firth SPA is far beyond maximum foraging range of common tern so has no breeding season connectivity. The proportion of the population migrating through the East Anglia ONE North site is likely to be extremely small relative to BDMPS (see Table 8.2 of the HRA Screening Report (APP-044)).

d) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Inner Moray Firth SPA & Ramsar (see Table 8.2 of the HRA Screening Report (APP-044))..

Site	**93**														
Name of European Site:	**Isle of May SAC**														
Distance to East Anglia ONE North (km)	**524**														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Grey seal *Halichoerus grypus*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)

a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 189 and 190 and Table 8.2 of the HRA Screening Report (APP-044)).

Site	94														
Name of European Site:	Klaverbank SCI														
Distance to East Anglia ONE North (km)	158														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour porpoise *Phocoena phocoena*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
Grey seal *Halichoerus grypus*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
Harbour seal *Phoca vitulina*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)

a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 218 and 219 for harbour seal, paragraphs 189 and 190 for grey seal and paragraphs 167 and 168 for harbour porpoise of the HRA Screening Report (APP-044)).

Site	**95**														
Name of European Site:	**Knudegrund SAC**														
Distance to East Anglia ONE North (km)	**746km**														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater Noise			Vessel interactions			Indirect effects on prey			Changes to water quality			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Grey seal	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)
Harbour seal	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)

a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE ((see paragraphs 218 and 219 for harbour seal and paragraphs 189 and 190 for grey seal, of the HRA Screening Report (APP-044))

Site	**96**														
Name of European Site:	**Kosterfjorden-Väderöfjorden SAC**														
Distance to East Anglia ONE North (km)	**867**														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour porpoise *Phocoena phocoena*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
Harbour seal *Phoca vitulina*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)

a) The distance between the potential impact range of the proposed project and the site is beyond that of potential for direct or indirect effects (see paragraphs 218 and 219 for harbour seal and paragraphs 167 and 168 for harbour porpoise of the HRA Screening Report (APP-044)).

Site	97														
Name of European Site:	Kungsbackafjorden SAC														
Distance to East Anglia ONE North (km)	881														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour seal *Phoca vitulina*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)

a) The distance between the potential impact range of the proposed project and the site is beyond that of potential for direct or indirect effects (see paragraphs 218 and 219 of the HRA Screening Report (APP-044)).

Site	**98**														
Name of European Site:	**Küsten- und Dünenlandschaften Amrums SAC**														
Distance to East Anglia ONE North (km)	**456**														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Grey seal *Halichoerus grypus*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)

a) The distance between the potential impact range of the proposed project and the site is beyond that of potential for direct or indirect effects (see paragraphs 189 and 190 of the HRA Screening Report (APP-044)).

Site	**99**											
Name of European Site:	**Lindisfarne SPA and Ramsar**											
Distance to East Anglia ONE North (km)	**441 (windfarm site) and 435 (offshore cable corridor)**											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Wintering and passage waterbird assemblage including as named features wigeon, greylag goose, brent goose, sanderling, dunlin, ringed plover, goldeneye, whooper swan, black-tailed godwit, common scoter, red-breasted merganser, golden plover, grey plover, eider, shelduck, redshank		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (c)	N (c)	N (c)
Breeding little tern, roseate tern		N (b)		N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)

a) Survey data show little or no evidence of SPA features occurring in East Anglia ONE North (see section 5.1 of Appendix 12.2 (APP-470) and migrations of birds from this SPA are likely to result in negligible numbers passing through the site during migration (see Table 8.2 of the HRA Screening Report (APP-044).

b) Breeding little tern has a maximum foraging range of 11km from colonies, so would have no connectivity with East Anglia ONE North. Migrating little terns are considered to be 'extremely coastal on passage with very few sightings in open ocean or inland' (Forrester et al. 2007), so are unlikely to pass through the East Anglia ONE North site. Breeding roseate tern has a maximum foraging range of 30km from colonies, so would have no connectivity with East Anglia ONE North. Migrating roseate terns are unlikely to pass through the East Anglia ONE North site as their migration tends to be coastal. (see Table 8.2 of the HRA Screening Report (APP-044)

Site	**99**
Name of European Site:	**Lindisfarne SPA and Ramsar**
Distance to East Anglia ONE North (km)	**441 (windfarm site) and 435 (offshore cable corridor)**

c) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Lindisfarne SPA and Ramsar (see Table 8.2 of the HRA Screening Report (APP-044).

Site	100																	
Name of European Site:	Littoral Cauchois SAC																	
Distance to East Anglia ONE North (km)	238 (offshore cable corridor)																	
Site Features	Permanent loss			Temporary physical disturbance			Smothering due to increased suspended sediment			Re- mobilisation of contaminate d sediments			Underwater noise and vibration			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Reefs	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)
Perennial vegetation of stony banks	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)
Vegetated sea cliffs of the Atlantic and Baltic coasts	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)
Oligotrophic waters containing very few minerals of sandy plains *Littorelletalia uniflorae*	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)
Hard oligo-mesotrophic waters with benthic vegetation of *Chara* spp.	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)

a) As it has been agreed through the scoping and Evidence Plan Process (EPP) (see Appendix 9.1 (APP-458)) that transboundary effects are scoped out for EIA (given the distance to sites in other Members States jurisdictions) these have also been screened out from consideration for HRA purposes.

Site	101											
Name of European Site:	Littoral Seino-Marin SPA											
Distance to East Anglia ONE North (km)	261											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Breeding seabirds including fulmar, shag, gannet, herring gull, great black-backed gull, kittiwake		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (f)	N (f)	N (f)
Nonbreeding winter and passage seabird assemblage including as named features red-throated diver, black-throated diver, great crested grebe, fulmar, gannet, cormorant, shag, pomarine skua *Stercorarius pomarinus*, great skua, Mediterranean gull *Larus melanocephalus*, little gull, lesser black-backed gull, herring gull, great black-backed gull, kittiwake, Sandwich tern, common tern, guillemot, razorbill		N (b)		N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (f)	N (f)	N (f)
Nonbreeding little egret, spoonbill *Platalea leucorodia*, honey buzzard *Pernis apivorus*, hen harrier, merlin *Falco columbarius*, peregrine, avocet		N (c)		N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)
Breeding peregrine		N (d)		N (d)	N (d)	N (d)	N (d)	N (d)	N (d)	N (d)	N (d)	N (d)

Site	**101**											
Name of European Site:	**Littoral Seino-Marin SPA**											
Distance to East Anglia ONE North (km)	**261**											
Nonbreeding woodlark *Lullula arborea*		N (e)		N (e)	N (e)	N (e)	N (e)	N (e)	N (e)	N (e)	N (e)	N (e)

a) East Anglia ONE North is within the theoretical maximum foraging range of breeding gannets from this SPA but tracking data show that breeding gannets from the SPA do not reach East Anglia ONE North. The SPA is far beyond maximum foraging range of other designated seabird species so has no breeding season connectivity. Proportions of these populations migrating through East Anglia ONE North are likely to be extremely small relative to BDMPS (see Table 8.2 of the HRA Screening Report (APP-044).

b) Proportions of these populations migrating through the East Anglia ONE North site are likely to be extremely small relative to BDMPS (see Table 8.2 of the HRA Screening Report (APP-044).

c) None of these species has been recorded during bird surveys at the East Anglia ONE North site. It is unlikely that birds from the SPA will migrate through the East Anglia ONE North site, as these species are generally scarce migrants in the UK, and their migrations tend to be coastal rather than over open sea (see Table 8.2 of the HRA Screening Report (APP-044).

d) Breeding peregrines in western Europe tend to remain close to their breeding site throughout the year so it is extremely unlikely that any from the SPA would reach East Anglia ONE North site (see Table 8.2 of the HRA Screening Report (APP-044).

e) Woodlark is a very scarce migrant to the UK, so it is very unlikely that individuals from the SPA would reach the East Anglia ONE North site (see Table 8.2 of the HRA Screening Report (APP-044).

f) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Littoral Seino-Marin SPA (see Table 8.2 of the HRA Screening Report (APP-044).

Site	**102**
Name of European Site:	**Loch of Strathbeg SPA & Ramsar**
Distance to East Anglia ONE North (km)	**638**

Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Wintering and passage waterbird assemblage including as named features greylag goose, pink-footed goose, teal, Svalbard barnacle goose *Branta leucopsis*, whooper swan		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (c)	N (c)	N (c)
Breeding Sandwich tern		N (b)		N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (c)	N (c)	N (c)

a) Survey data show little or no evidence of Loch of Strathbeg SPA features occurring in the East Anglia ONE North site (see section 5.1 of Appendix 12.2 (APP-470), and migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North site (see Table 8.2 of the HRA Screening Report (APP-044).

b) Loch of Strathbeg SPA is far beyond maximum foraging range of Sandwich tern (54km, Thaxter et al. 2012) so has no breeding season connectivity. Proportion of the population migrating through the East Anglia ONE North site is likely to be extremely small relative to BDMPS (see Table 8.2 of the HRA Screening Report (APP-044).

c) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Loch of Strathbeg SPA & Ramsar (see Table 8.2 of the HRA Screening Report (APP-044).

Site	**103**														
Name of European Site:	**Løgstør Bredning, Vejlerne og Bulbjerg SAC**														
Distance to East Anglia ONE North (km)	**673**														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour seal *Phoca vitulina*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 218 and 219 of the HRA Screening Report (APP-044)).															

Site	104														
Name of European Site:	LØnstrup RØdgrund SAC														
Distance to East Anglia ONE North (km)	728km														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour Porpoise *Phocoena phocoena*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 167 and 168 and Table 7.3 of the HRA Screening Report (APP-044)).															

Site	**105**														
Name of European Site:	**Lovns Bredning, Hjarbæk Fjord og Skals, Simested og Nørre Ådal, Skravad Bæk SAC**														
Distance to East Anglia ONE North (km)	**699**														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour seal *Phoca vitulina*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)

a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 218 and 219 of the HRA Screening Report (APP-044)).

Site	106														
Name of European Site:	Malmöfjord SAC														
Distance to East Anglia ONE North (km)	859														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour seal *Phoca vitulina*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)

a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 218 and 219 of the HRA Screening Report (APP-044)).

Site	107														
Name of European Site:	Marais du Cotentin et du Bessin - Baie des Veys SAC														
Distance to East Anglia ONE North (km)	407														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Grey seal *Halichoerus grypus*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
Harbour seal *Phoca vitulina*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)

a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 218 and 219 for harbour seal and paragraphs 189 and 190 for grey seal, of the HRA Screening Report (APP-044)).

Site	108																	
Name of European Site:	Margate and Long Sands SCI																	
Distance to East Anglia ONE North (km)	37 (cable corridor)																	
Site Features	Likely effect(s) of East Anglia ONE North																	
	Permanent loss			Temporary physical disturbance			Smothering due to increased suspended sediment			Re- mobilisation of contaminated sediments			Underwater noise and vibration			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Sandbanks which are slightly covered by sea water all the time	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)		N (a)	N (a)		N (a)	N (a)	N (a)	N (a)

a) The distance between the offshore project area and the designated site is beyond the range of any potential LSE. Indirect far-field effects are limited to 1km of the works and for the duration of 1 tidal cycle (see paragraph 118 of APP-044)

Site	109											
Name of European Site:	Marwick Head SPA											
Distance to East Anglia ONE North (km)	822											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Breeding seabird assemblage including as named features guillemot and kittiwake		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (b)	N (b)	N (b)

a) Marwick Head SPA is beyond maximum foraging range of designated seabird species so has no breeding season connectivity. Proportions of these populations migrating through the East Anglia ONE North site are small relative to BDMPS (see Table 8.2 of the HRA Screening Report (APP-044)).

b) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Marwick Head SPA (see Table 8.2 of the HRA Screening Report (APP-044)).

Site	**110**														
Name of European Site:	**Måseskär SAC**														
Distance to East Anglia ONE North (km)	**847**														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour seal *Phoca vitulina*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)

a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 218 and 219 of the HRA Screening Report (APP-044)).

Site	111											
Name of European Site:	Medway Estuary & Marshes SPA and Ramsar											
Distance to East Anglia ONE North (km)	147 (windfarm site) and 102 (offshore cable corridor)											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Wintering and passage waterbird assemblage including as named features pintail, shoveler, teal, wigeon, turnstone, brent goose, dunlin, knot, ringed plover Bewick's swan, oystercatcher, black-tailed godwit, curlew, grey plover, great crested grebe, avocet, shelduck, greenshank, redshank		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (d)	N (d)	N (d)
Breeding avocet		N (b)		N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)
Breeding little tern, common tern		N (c)		N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)

a) Survey data show little or no evidence of Medway Estuary & Marshes SPA features occurring in the East Anglia ONE North site (see section 5.1 of Appendix 12.2 (APP-470), and migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North site (see Table 8.2 of the HRA Screening Report (APP-044)).

b) Avocet has not been observed during bird site-specific surveys site (see section 5.1 of Appendix 12.2 (APP-470). It is highly unlikely that these birds would migrate through the East Anglia ONE North site as their migration is likely to take a coastal route and cross sea at narrow points such as The English Channel. If they did migrate through the East Anglia ONE North site their flight height is likely not to be at collision risk height. (see Table 8.2 of the HRA Screening Report (APP-044)).

Site	111
Name of European Site:	Medway Estuary & Marshes SPA and Ramsar

c) Breeding little tern has a maximum foraging range of 11km from colonies (Thaxter et al. 2012), so would have no connectivity with East Anglia ONE North. Migrating little terns are considered to be 'extremely coastal on passage with very few sightings in open ocean or inland' (Forrester et al. 2007), so are unlikely to pass through the East Anglia ONE North site. Breeding common tern has a maximum foraging range of 30km from colonies (Thaxter et al. 2012), so would have no connectivity with East Anglia ONE North. Migrating common terns are unlikely to pass through the East Anglia ONE North site as their migration tends to be coastal where that is an option. (see Table 8.2 of the HRA Screening Report (APP-044))

d) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Medway Estuary & Marshes SPA and Ramsar. (see Table 8.2 of the HRA Screening Report (APP-044))

Site	**112**																			
Name of European Site	**Minsmere to Walberswick Heaths and Marshes SAC**																			
Distance to East Anglia ONE North (km)	**1.8km (offshore cable corridor)**																			
Fish																				
Site Features	Likely effect(s) of East Anglia ONE North																			
	Permanent habitat loss			Temporary physical disturbance			Smothering due to increased suspended sediment			Re- mobilisation of contaminated sediments			Underwater noise and vibration			Electromagnetic fields (EMF)			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Sea Lamprey	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)
River lamprey	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)
Twaite shad	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)

Benthic Habitats																				
Site Features	Likely effect(s) of East Anglia ONE North																			
		Permanent loss			Temporary physical disturbance			Smothering due to increased suspended sediment			Re- mobilisation of contaminate d sediments			Underwater noise and vibration			In-combination		
		C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	

Site	112																
Name of European Site	Minsmere to Walberswick Heaths and Marshes SAC																
Distance to East Anglia ONE North (km)	1.8km (offshore cable corridor)																
Sandbanks which are slightly covered by sea water all the time	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)
Estuaries	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)
Mudflats and sandflats not covered by seawater at low tide	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)
Reefs	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)

a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see section 6.2.1, of the HRA Screening Report (APP-044)).

b) The distance between the offshore project area and the designated site is beyond the range of any potential LSE. Indirect far-field effects are limited to 1km of the works and for the duration of 1 tidal cycle (see paragraph 118 of APP-044).

Site	113											
Name of European Site:	Minsmere - Walberswick SPA and Ramsar											
Distance to East Anglia ONE North (km)	44 (windfarm site) and 2 (offshore cable corridor)											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Wintering shoveler, gadwall, white-fronted goose		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (g)	N (g)	N (g)
Nonbreeding hen harrier		N (b)		N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (g)	N (g)	N (g)
Breeding shoveler, teal, gadwall, bittern, avocet		N (c)		N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (g)	N (g)	N (g)
Breeding nightjar *Caprimulgus europaeus*		N (d)		N (d)	N (d)	N (d)	N (d)	N (d)	N (d)	N (g)	N (g)	N (g)
Breeding marsh harrier		N (e)		N (e)	N (e)	N (e)	N (e)	N (e)	N (e)	N (e)	N (e)	N (e)
Breeding little tern		N (f)		N (f)	N (f)	N (f)	N (f)	N (f)	N (f)	N (f)	N (f)	N (f)

Site	**113**
Name of European Site:	**Minsmere - Walberswick SPA and Ramsar**
Distance to East Anglia ONE North (km)	**44 (windfarm site) and 2 (offshore cable corridor)**

a) Survey data show no evidence of Minsmere-Walberswick SPA features shoveler, gadwall or white-fronted goose occurring in the East Anglia ONE North site (see section 5.1 of Appendix 12.2 (APP-470), and migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North site.

b) Survey data show no evidence of hen harrier occurring in the East Anglia ONE North site (see section 5.1 of Appendix 12.2 (APP-470), and migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North site as UK birds are likely to migrate overland rather than over the sea where possible (see Table 8.2 of the HRA Screening Report (APP-044)).

c) Survey data show no evidence of Minsmere-Walberswick SPA features shoveler, teal, gadwall, bittern or avocet occurring in the East Anglia ONE North site (see section 5.1 of Appendix 12.2 (APP-470), and migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North site (see Table 8.2 of the HRA Screening Report (APP-044)).

d) Survey data show no evidence of nightjar occurring in the East Anglia ONE North OWF site (see section 5.1 of Appendix 12.2 (APP-470), and migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North site as UK birds are likely to migrate overland rather than over the sea where possible and make short sea crossings from southern England to France (see Table 8.2 of the HRA Screening Report (APP-044)).

e) Marsh harrier is a migrant species. Satellite tracking suggests that marsh harriers migrate overland to the south coast of England and over the Channel to France, rather than across the North Sea (see Table 8.2 of the HRA Screening Report (APP-044)).

f) Breeding little tern has a maximum foraging range of 11km from colonies (Thaxter et al. 2012), so would have no connectivity with East Anglia ONE North. Migrating little terns are considered to be ‘extremely coastal on passage with very few sightings in open ocean or inland’ (Forrester et al. 2007), so are unlikely to pass through the East Anglia ONE North site (see Table 8.2 of the HRA Screening Report (APP-044)).

g) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Minsmere-Walberswick SPA and Ramsar (see Table 8.2 of the HRA Screening Report (APP-044)).

Site	**114**											
Name of European Site:	**Montrose Basin SPA & Ramsar**											
Distance to East Anglia ONE North (km)	**570 (windfarm site) and 567 (offshore cable corridor)**											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Wintering and passage waterbird assemblage including as named features dunlin, eider, knot, shelduck, wigeon, pink-footed goose, greylag goose, redshank, oystercatcher		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (b)	N (b)	N (b)

a) Survey data show little or no evidence of Montrose Basin SPA features occurring in the East Anglia ONE North site (see section 5.1 of Appendix 12.2 (APP-470), and migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North site (see Table 8.2 of the HRA Screening Report (APP-044)).

b) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Montrose Basin SPA and Ramsar (see Table 8.2 of the HRA Screening Report (APP-044)).

Site	**115**											
Name of European Site:	**Moray and Nairn Coast SPA & Ramsar**											
Distance to East Anglia ONE North (km)	**669 (windfarm site) and 666 (offshore cable corridor)**											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Wintering and passage waterbird assemblage including as named features common scoter, long-tailed duck, oystercatcher, bar-tailed godwit, wigeon, pink-footed goose, red-breasted merganser, redshank, velvet scoter, greylag goose, dunlin		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (c)	N (c)	N (c)
Breeding osprey		N (b)		N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)

a) Survey data show little or no evidence of Moray & Nairn Coast SPA features occurring in the East Anglia ONE North site (see section 5.1 of Appendix 12.2 (APP-470), and migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North site (see Table 8.2 of the HRA Screening Report (APP-044)).

b) Osprey has not been observed in the East Anglia ONE North site (see section 5.1 of Appendix 12.2 (APP-470), and it is improbable that any ospreys from the SPA migrate through the East Anglia ONE North site (see Table 8.2 of the HRA Screening Report (APP-044)).

c) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Moray & Nairn Coast SPA and Ramsar (see Table 8.2 of the HRA Screening Report (APP-044)).

Site	**116**
Name of European Site:	**Mousa SPA**
Distance to East Anglia ONE North (km)	**868**

Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Breeding Arctic tern		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (c)	N (c)	N (c)
Breeding European storm-petrel *Hydrobates pelagicus*		N (b)		N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)

a) Mousa SPA is beyond maximum foraging range of Arctic tern (30km, Thaxter et al. 2012) so has no breeding season connectivity. The proportion of the population migrating through the East Anglia ONE North site is likely to be extremely small relative to BDMPS (see Table 8.2 of the HRA Screening Report (APP-044)).

b) European storm-petrels were not observed in the East Anglia ONE North site (see section 5.1 of Appendix 12.2 (APP-470), and are rarely seen anywhere in the southern North Sea, so evidence suggests that this species migrates from its breeding site on Mousa into the North Atlantic and not normally through the North Sea (see Table 8.2 of the HRA Screening Report (APP-044))..

c) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Mousa SPA (see Table 8.2 of the HRA Screening Report (APP-044)).

Site	**117**														
Name of European Site:	**Mousa SAC**														
Distance to East Anglia ONE North (km)	**872**														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour seal *Phoca vitulina*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)

a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 218 and 219 of the HRA Screening Report (APP-044)).

Site	**118**
Name of European Site	**Mühlenberger Loch SPA**
Distance to East Anglia ONE North (km)	**526km**

Marine Mammals

Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour porpoise *Phocoena phocoena*	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)		N (a)	N (a)	N (a)	N (a)
Harbour seal *Phoca vitulina*	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)		N (a)	N (a)	N (a)	N (a)

Fish

Site Features	Likely effect(s) of East Anglia ONE North																				
	Permanent habitat loss			Temporary physical disturbance			Smothering due to increased suspended sediment			Re- mobilisation of contaminated sediments			Underwater noise and vibration			Electromagnetic fields (EMF)			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Houting	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)
Twaite shad	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)
Lampern	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)
Great sea lamprey	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)

Site	**118**																			
Name of European Site	**Mühlenberger Loch SPA**																			
Distance to East Anglia ONE North (km)	**526km**																			
Salmon	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)
Benthic Habitats																				
Site Features	Likely effect(s) of East Anglia ONE North																			
	Permanent loss			Temporary physical disturbance			Smothering due to increased suspended sediment			Re- mobilisation of contaminate d sediments			Underwater noise and vibration			In-combination			
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D		
Estuaries	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)		

a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 218 and 219 for harbour seal and paragraphs 167 and 168 for harbour porpoise, of the HRA Screening Report (APP-044)).

b) It was agreed as part of the East Anglia ONE North Scoping and Evidence Plan Process (EPP) (see Appendix 9.1 (APP-458) and Appendix 10.1 (APP-462) that transboundary impacts on fish and benthic habitats would be scoped out of the EIA. We have therefore screened them out from consideration in the HRA

Site	**119**														
Name of European Site:	**Nationalpark Niedersächsisched Wattenmeer SAC**														
Distance to East Anglia ONE North (km)	**304**														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour porpoise *Phocoena phocoena*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
Grey seal *Halichoerus grypus*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
Harbour seal *Phoca vitulina*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)

a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 218 and 219 for harbour seal, paragraphs 189 and 190 for grey seal and paragraphs 167 and 168 for harbour porpoise, of the HRA Screening Report (APP-044)).

Site Name of European Site: Distance to East Anglia ONE North (km)	120 Nibe Bredning, Halkær Ådal og Sønderup Ådal SAC 705														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour seal *Phoca vitulina*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 218 and 219 of the HRA Screening Report (APP-044)).															

Site Name of European Site: Distance to East Anglia ONE North (km)	121 Nidingen SAC 886														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour seal *Phoca vitulina*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 218 and 219 of the HRA Screening Report (APP-044)).															

Site	**122**
Name of European Site:	**Noordzeekustzone SAC**
Distance to East Anglia ONE North (km)	**140 (windfarm site) and 159 (offshore cable corridor)**

Marine Mammals

Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions and disturbance at seal haul outs			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour porpoise	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)		N (a)	N (a)	N (a)	N (a)
Grey seal	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)		N (a)	N (a)	N (a)	N (a)
Harbour seal	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)		N (a)	N (a)	N (a)	N (a)

Fish

Site Features	Likely effect(s) of East Anglia ONE North																				
	Permanent habitat loss			Temporary physical disturbance			Smothering due to increased suspended sediment			Re- mobilisation of contaminated sediments			Underwater noise and vibration			Electromagnetic fields (EMF)			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Sea Lamprey	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)
Allis Shad	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)
Twaite Shad	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)

Site	**122**
Name of European Site:	**Noordzeekustzone SAC**
Distance to East Anglia ONE North (km)	**140 (windfarm site) and 159 (offshore cable corridor)**

Benthic Habitats

Site Features	Permanent loss			Temporary physical disturbance			Smothering due to increased suspended sediment			Re- mobilisation of contaminate d sediments			Underwater noise and vibration			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Sandbanks which are slightly covered by sea water all the time	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)
Mudflats and sandflats not covered by seawater at low tide	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)

a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 218 and 219 for harbour seal, paragraphs 189 and 190 for grey seal and paragraphs 167 and 168 for harbour porpoise, of the HRA Screening Report (APP-044)).

b) It was agreed as part of the East Anglia ONE North Scoping and Evidence Plan Process (EPP) (see Appendix 10.1 (APP-462)that transboundary impacts on fish would be scoped out of the EIA. We have therefore screened them out from consideration in the HRA.

c) As it has been agreed through the scoping and Evidence Plan Process (EPP) (see Appendix 9.1 (APP-458)that transboundary effects are scoped out for EIA (given the distance to sites in other Members States jurisdictions) these have also been screened out from consideration for HRA purposes.

Site	**123**														
Name of European Site:	**Nordre älvs estuarium SAC**														
Distance to East Anglia ONE North (km)	**851**														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour seal *Phoca vitulina*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)

a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 218 and 219 and Table 8.2 of the HRA Screening Report (APP-044)).

Site	**124**														
Name of European Site:	**Nordvästra Skånes havsområde SAC**														
Distance to East Anglia ONE North (km)	**955**														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Grey seal *Halichoerus grypus*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
Harbour seal Phoca vitulina	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)

a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 218 and 219 for harbour seal and paragraphs 189 and 190 for harbour porpoise, of the HRA Screening Report (APP-044))..

Site	125											
Name of European Site:	North Caithness Cliffs SPA											
Distance to East Anglia ONE North (km)	761											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Breeding seabird assemblage including as named features fulmar, guillemot, kittiwake, razorbill, puffin		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (c)	N (c)	N (c)
Breeding peregrine		N (b)		N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)

a) North Caithness Cliffs SPA is far beyond the maximum foraging range of designated seabird species so has no breeding season connectivity. Proportions of these populations migrating through the East Anglia ONE North site are small relative to BDMPS (see Table 8.2 of the HRA Screening Report (APP-044)).

b) Peregrines breeding in the UK normally remain close to their breeding areas throughout the year, and are very unlikely to migrate offshore from the UK (see Table 8.2 of the HRA Screening Report (APP-044)).

c) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at North Caithness Cliffs SPA (see Table 8.2 of the HRA Screening Report (APP-044)).

Site	**126**											
Name of European Site:	**North Norfolk Coast SPA and Ramsar**											
Distance to East Anglia ONE North (km)	**93 (windfarm site) and 100 (offshore cable corridor)**											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Wintering and passage waterbird assemblage including as named features wigeon, pink-footed goose, brent goose, knot, avocet		**Y (a)**		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (f)	**Y (a)**	N (f)
Breeding bittern		N (b)		N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (f)	N (f)	N (f)
Breeding marsh harrier		N (c)		N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (f)	N (f)	N (f)
Breeding avocet		N (d)		N (d)	N (d)	N (d)	N (d)	N (d)	N (d)	N (f)	N (f)	N (f)
Breeding little tern, common tern, Sandwich tern		N (e)		N (e)	N (e)	N (e)	N (e)	N (e)	N (e)	N (f)	N (f)	N (f)

a) Survey data show little or no evidence of North Norfolk Coast SPA features wigeon, pink-footed goose, brent goose, knot, avocet occurring in the East Anglia ONE North site (see section 5.1 of Appendix 12.2 (APP-470), and migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North site during migration (see Table 8.2 of the HRA Screening Report (APP-044)).

b) Survey data show no evidence of North Norfolk Coast SPA feature bittern occurring in the East Anglia ONE North site, and migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North site (see Table 8.2 of the HRA Screening Report (APP-044)).

c) Marsh harrier is a migrant species. Satellite tracking suggests that marsh harriers migrate overland to the south coast of England and over the Channel to France, rather than across the North Sea (see Table 8.2 of the HRA Screening Report (APP-044)).

Site	**126**
Name of European Site:	**North Norfolk Coast SPA and Ramsar**
Distance to East Anglia ONE North (km)	**93 (windfarm site) and 100 (offshore cable corridor)**

d) Survey data show no evidence of North Norfolk Coast SPA feature avocet occurring in the East Anglia ONE North site, and migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North site (see Table 8.2 of the HRA Screening Report (APP-044)).

e) Little tern, common tern and Sandwich tern have maximum foraging ranges from colonies of 11km, 30km and 54km respectively (Thaxter et al. 2012), so there is no connectivity between the SPA and East Anglia ONE North site. Furthermore, these species tend to forage in coastal waters rather than offshore. Therefore, collision risk, displacement and barrier effects can be excluded. (see Table 8.2 of the HRA Screening Report (APP-044))

f) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at North Norfolk Coast SPA and Ramsar (see Table 8.2 of the HRA Screening Report (APP-044)).

Site	**127**																	
Name of European Site:	**North Norfolk Sandbanks and Saturn Reef SAC**																	
Distance to East Anglia ONE North (km)	**69 (offshore cable corridor)**																	
Site Features	Likely effect(s) of East Anglia ONE North																	
	Permanent loss			Temporary physical disturbance			Smothering due to increased suspended sediment			Re- mobilisation of contaminated sediments			Underwater noise and vibration			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Sandbanks which are slightly covered by sea water all the time	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)		N (a)	N (a)		N (a)	N (a)	N (a)	N (a)
Reefs	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)		N (a)	N (a)		N (a)	N (a)	N (a)	N (a)

a) Beyond the range of potential impact. Indirect far-field effects are limited to 1km of the works and for the duration of 1 tidal cycle (see paragraph 118 of APP-044).

Site	128											
Name of European Site:	Northumbria Coast SPA and Ramsar											
Distance to East Anglia ONE North (km)	347 (windfarm site) and 340 (offshore cable corridor)											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Nonbreeding turnstone, purple sandpiper *Calidris maritima*		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (c)	N (c)	N (c)
Breeding little tern		N (b)		N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)
Arctic tern		N (b)		N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)

a) Survey data show little or no evidence of SPA features occurring in East Anglia ONE North (see section 5.1 of Appendix 12.2 (APP-470) and migrations of birds from this SPA are likely to result in negligible numbers passing through the site during migration (see Table 8.2 of the HRA Screening Report (APP-044).

b) Breeding little tern has a maximum foraging range of 11km from colonies (Thaxter et al. 2012), so would have no connectivity with East Anglia ONE North. Migrating little terns are considered to be 'extremely coastal on passage with very few sightings in open ocean or inland' (Forrester et al. 2007), so are unlikely to pass through the East Anglia ONE North site (see Table 8.2 of the HRA Screening Report (APP-044).

c) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Northumbria Coast SPA and Ramsar (see Table 8.2 of the HRA Screening Report (APP-044).

Site	**129**											
Name of European Site:	**Noss SPA**											
Distance to East Anglia ONE North (km)	**881**											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Breeding seabird assemblage including as named features gannet, fulmar, guillemot, kittiwake, puffin, great skua		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (b)	N (b)	N (b)

a) SPA is far beyond maximum foraging range of designated seabird species so has no breeding season connectivity. Proportions of these populations migrating through East Anglia ONE North are small relative to BDMPS (see Table 8.2 of the HRA Screening Report (APP-044).

b) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Noss SPA (see Table 8.2 of the HRA Screening Report (APP-044).

Site	**130**														
Name of European Site:	**NTP S-H Wattenmeer und angrenzende Kustengebiete SAC**														
Distance to East Anglia ONE North (km)	**419**														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour porpoise *Phocoena phocoena*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
Grey seal *Halichoerus grypus*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
Harbour seal *Phoca vitulina*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)

a) The distance between the potential impact range of the proposed project and the site is beyond that of potential for direct or indirect effects (see paragraphs 218 and 219 for harbour seal, paragraphs 189 and 190 for grey seal and paragraphs 167 and 168 for harbour porpoise, of the HRA Screening Report (APP-044)).

Site	**131**														
Name of European Site:	**Oosterschelde SAC**														
Distance to East Anglia ONE North(km)	**109**														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour porpoise *Phocoena phocoena*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
Grey seal *Halichoerus grypus*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
Harbour seal *Phoca vitulina*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)

a) The distance between the potential impact range of the proposed project and the extent of any impact on individuals from this site result are negligible and would result in no potential for LSE (see paragraphs 218 and 219 for harbour seal, paragraphs 189 and 190 for grey seal and paragraphs 167 and 168 for harbour porpoise, of the HRA Screening Report (APP-044)).

Site	**132**																	
Name of European Site:	**Orfordness - Shingle Street SAC**																	
Distance to East Anglia ONE North (km)	**4 (offshore cable corridor)**																	
Site Features	Likely effect(s) of East Anglia ONE North																	
	Permanent loss			Temporary physical disturbance			Smothering due to increased suspended sediment			Re- mobilisation of contaminated sediments			Underwater noise and vibration			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Coastal lagoons	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)		N (a)	N (a)		N (a)	N (a)	N (a)	N (a)

a) The primary feature of the SAC is a series of percolation lagoons which are separated from the marine environment by the Orford shingle beach. These features are described as non-marine as they occur landward of highest astronomical tide. Therefore, due to a physical barrier there is no pathway between the source of any effects in the marine environment and the receptor (see Table 5.2 of HRA Screening Report (APP-470).

Site	133											
Name of European Site:	Östliche Deutsche Bucht SPA											
Distance to East Anglia ONE North (km)	411											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Ornithology												
Nonbreeding seabirds (razorbill, fulmar, black-throated diver, red-throated diver, herring gull, common gull, lesser black-backed gull, great black-backed gull, little gull, black-headed gull *Chroicocephalus ridibundus*, common scoter, great crested grebe, kittiwake, common tern, Arctic tern, sandwich tern, gannet, guillemot)		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (b)	N (b)	N (b)

a) Migrations of birds from this SPA are likely to result in negligible numbers passing through East Anglia ONE North during migration relative to the size of BDMPS regional populations (see Table 8.2 of the HRA Screening Report (APP-044).

b) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at östliche Deutsche Bucht SPA (see Table 8.2 of the HRA Screening Report (APP-044).

Site Features	Likely effect(s) of East Anglia ONE North				
	Underwater noise	Vessel Interactions	Indirect effects on prey	Changes to water quality	In-combination

Site	133														
Name of European Site:	Östliche Deutsche Bucht SPA														
Distance to East Anglia ONE North (km)	411														
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Marine Mammals															
Harbour porpoise *Phocoena phocoena*	N(c)	N(c)	N(c)				N(c)	N(c)	N(c)	N(c)		N(c)	N(c)	N(c)	N(c)
Grey seal *Halichoerus grypus*	N(c)	N(c)	N(c)				N(c)	N(c)	N(c)	N(c)		N(c)	N(c)	N(c)	N(c)
Harbour seal *Phoca vitulina*	N(c)	N(c)	N(c)				N(c)	N(c)	N(c)	N(c)		N(c)	N(c)	N(c)	N(c)

c) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 218 and 219 for harbour seal, paragraphs 189 and 190 for grey seal and paragraphs 167 and 168 for harbour porpoise, of the HRA Screening Report (APP-044)).

Site	**134**														
Name of European Site:	**Ouessant-Molene SAC**														
Distance to East Anglia ONE North (km)	**675**														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Grey seal *Halichoerus grypus*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)

a) The distance between the potential impact range of East Anglia ONE North and the extent of any impact on individuals from this site result are negligible and would result in no potential for LSE (see paragraphs 189 and 190 and Table 8.2 of the HRA Screening Report (APP-044)).

Site	**135**
Name of European Site:	**Outer Thames Estuary SPA**
Distance to East Anglia ONE North (km)	**Within cable corridor**

Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Nonbreeding red-throated divers		**Y (a)**		**Y (b)**	**Y (c)**	**Y (b)**	**Y (b)**	**Y (a)**	**Y (b)**	**Y (b)**	**Y (a) & (c)**	**Y (b)**
Breeding little tern and common tern		N (d)		N (d)	N (d)	N (d)	N (d)	N (d)	N (d)	N (d)	N (d)	N (d)

a) Given the overlap of the East Anglia ONE North cable corridor with this SPA, collision risk cannot be ruled out at this stage and further assessment is required (see Table 8.2 of the HRA Screening Report (APP-044).

b) Given the overlap of the East Anglia ONE North cable corridor with this SPA, further detailed assessment is appropriate. Disturbance to red-throated diver is possible, especially during export cable installation. Great Yarmouth may be used as a port for construction vessels for the East Anglia ONE North site; this port is located very close to the northern extent of the SPA however is outside the main concentrations of red-throated divers. This, together with the extent of existing vessel movements in the area means the addition of construction traffic as a result of the Project will make little difference to the existing baseline and therefore the potential for LSE is considered to be negligible. (see Table 8.2 of the HRA Screening Report (APP-044).

c) Following advice from Natural England it is considered that Operations and Maintenance vessels and the operational windfarm array site itself may disturb red-throated divers whilst transiting through the SPA therefore an LSE cannot be screened out (see Appendix 12.1 (APP-469)).

d) SPA is beyond maximum foraging range of designated breeding seabird species (terns) and tern foraging tends to be coastal so has no breeding season connectivity. Proportions of these populations migrating through East Anglia ONE North are likely to be small as these species are thought to remain close to shore during much of their migration through UK waters (see Table 8.2 of the HRA Screening Report (APP-044).

Site	**136**																			
Name of European Site	**Panache De La Gironde Et Plateau Rocheux De Cordouan (Système Pertuis Gironde) SAC**																			
Distance to East Anglia ONE North (km)	**1,050km (offshore cable corridor)**																			
Marine Mammals																				
Site Features	Likely effect(s) of East Anglia ONE North																			
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination							
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D					
Harbour porpoise *Phocoena phocoena*	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)		N (a)	N (a)	N (a)	N (a)					
Grey seal *Halichoerus grypus*	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)		N (a)	N (a)	N (a)	N (a)					
Fish																				
Site Features	Likely effect(s) of East Anglia ONE North																			
	Permanent habitat loss			Temporary physical disturbance			Smothering due to increased suspended sediment			Re- mobilisation of contaminated sediments			Underwater noise and vibration			Electromagnetic fields (EMF)			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Atlantic sturgeon	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)
River lamprey	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)

Site						**136**														
Name of European Site						**Panache De La Gironde Et Plateau Rocheux De Cordouan (Système Pertuis Gironde) SAC**															
Distance to East Anglia ONE North (km)						**1,050km (offshore cable corridor)**														
Allis shad	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)
Twaite shad	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)
Lamper n	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)
Great sea lamprey	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)
Salmon	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)

Benthic Habitats																				
Site Features	Likely effect(s) of East Anglia ONE North																			
		Permanent loss			Temporary physical disturbance			Smothering due to increased suspended sediment			Re- mobilisation of contaminate d sediments			Underwater noise and vibration			In-combination		
		C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D

Site	136																
Name of European Site	Panache De La Gironde Et Plateau Rocheux De Cordouan (Système Pertuis Gironde) SAC																
Distance to East Anglia ONE North (km)	1,050km (offshore cable corridor)																
Sandbanks which are slightly covered by sea water all the time	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)
Estuaries	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)
Mudflats and sandflats not covered by seawater at low tide	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)
Reefs	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)

a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 189 and 190 for grey seal and paragraphs 167 and 168 for harbour porpoise, of the HRA Screening Report (APP-044))

b) It was agreed as part of the East Anglia ONE North Scoping and Evidence Plan Process (EPP) (see Appendix 9.1 (APP-458) and Appendix 10.1 (APP-462) that transboundary impacts on fish and benthic habitats would be scoped out of the EIA. We have therefore screened them out from consideration in the HRA

Site	137
Name of European Site:	Papa Stour SPA

Distance to East Anglia ONE North (km)	910											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Breeding Arctic tern		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (c)	N (c)	N (c)
Breeding ringed plover		N (b)		N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)

a) Papa Stour SPA is beyond maximum foraging range of Arctic tern so has no breeding season connectivity. The proportion of the population migrating through the East Anglia ONE North site is very small relative to BDMPS (see Table 8.2 of the HRA Screening Report (APP-044).

b) Ringed plovers breeding in Scotland 'tend to winter locally or move only short distances' (Forrester et al. 2007) so birds from Papa Stour are extremely unlikely to reach the East Anglia ONE North site (see Table 8.2 of the HRA Screening Report (APP-044).

c) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Papa Stour SPA (see Table 8.2 of the HRA Screening Report (APP-044).

Site	**138**											
Name of European Site:	**Papa Westray (North Hill and Holm) SPA**											
Distance to East Anglia ONE North (km)	**835**											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Breeding Arctic tern		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (b)	N (b)	N (b)
Breeding Arctic skua		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (b)	N (b)	N (b)

a) Papa Westray SPA is beyond the maximum foraging range of Arctic tern or Arctic skua so has no breeding season connectivity. Proportions of these populations migrating through the East Anglia ONE North site are likely to be extremely small relative to BDMPS (see Table 8.2 of the HRA Screening Report (APP-044).

b) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Papa Westray SPA (see Table 8.2 of the HRA Screening Report (APP-044).

Site	**139**														
Name of European Site:	**Pater Noster-skärgården SAC**														
Distance to East Anglia ONE North (km)	**846**														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour seal *Phoca vitulina*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)

a) The distance between the potential impact range of East Anglia ONE North and the site is beyond that of potential for direct or indirect effects (see paragraphs 218 and 219 and Table 8.2 of the HRA Screening Report (APP-044)).

Site	**140**
Name of European Site:	**Pentland Firth Islands SPA**
Distance to East Anglia ONE North (km)	**769**

Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Breeding Arctic tern		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (b)	N (b)	N (b)

a) Pentland Firth Islands SPA is beyond maximum foraging range of Arctic tern so has no breeding season connectivity. The proportion of the population migrating through the East Anglia ONE North site is likely to be extremely small relative to BDMPS (see Table 8.2 of the HRA Screening Report (APP-044).

b) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Pentland Firth Islands SPA (see Table 8.2 of the HRA Screening Report (APP-044).

Site	**141**																			
Name of European Site	**Pertuis Charentais SAC**																			
Distance to East Anglia ONE North (km)	**974km (offshore cable corridor)**																			
Marine Mammals																				
Site Features	Likely effect(s) of East Anglia ONE North																			
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination							
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D					
Harbour porpoise *Phocoena phocoena*	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)		N (a)	N (a)	N (a)	N (a)					
Grey seal *Halichoerus grypus*	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)		N (a)	N (a)	N (a)	N (a)					
Fish																				
Site Features	Likely effect(s) of East Anglia ONE North																			
	Permanent habitat loss			Temporary physical disturbance			Smothering due to increased suspended sediment			Re- mobilisation of contaminated sediments			Underwater noise and vibration			Electromagnetic fields (EMF)			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Atlantic sturgeon	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)
River lamprey	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)

Site					**141**															
Name of European Site					**Pertuis Charentais SAC**															
Distance to East Anglia ONE North (km)					**974km (offshore cable corridor)**															
Allis shad	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)
Twaite shad	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)
Lamper n	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)
Great sea lamprey	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)
Salmon	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)

Benthic Habitats																				
Site Features	Likely effect(s) of East Anglia ONE North																			
		Permanent loss			Temporary physical disturbance			Smothering due to increased suspended sediment			Re- mobilisation of contaminate d sediments			Underwater noise and vibration			In-combination		
		C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D

Site	141																
Name of European Site	Pertuis Charentais SAC																
Distance to East Anglia ONE North (km)	974km (offshore cable corridor)																
Sandbanks which are slightly covered by sea water all the time	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)
Estuaries	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)
Mudflats and sandflats not covered by seawater at low tide	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)
Reefs	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)
Large shallow inlets and bays	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)
Submerged or partially submerged sea caves	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)
Salicornia and other annuals colonizing mud and sand	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)

Site	141																
Name of European Site	Pertuis Charentais SAC																
Distance to East Anglia ONE North (km)	974km (offshore cable corridor)																
Annual vegetation of drift lines	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)

a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 189 and 190 for grey seal and paragraphs 167 and 168 for harbour porpoise, of the HRA Screening Report (APP-044)).

b) It was agreed as part of the East Anglia ONE North Scoping and Evidence Plan Process (EPP) (see Appendix 9.1 (APP-458) and Appendix 10.1 (APP-462) that transboundary impacts on fish and benthic habitats would be scoped out of the EIA. We have therefore screened them out from consideration in the HRA

Site	**142**																			
Name of European Site	**Plymouth Sound and Estuaries SAC**																			
Distance to East Anglia ONE North (km)	**443km (shortest distance overland)**																			
Fish																				
Site Features	Likely effect(s) of East Anglia ONE North																			
	Permanent habitat loss			Temporary physical disturbance			Smothering due to increased suspended sediment			Re- mobilisation of contaminated sediments			Underwater noise and vibration			Electromagnetic fields (EMF)			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Allis shad	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)
Benthic Habitats																				
Site Features	Likely effect(s) of East Anglia ONE North																			
		Permanent loss			Temporary physical disturbance			Smothering due to increased suspended sediment			Re- mobilisation of contaminate d sediments			Underwater noise and vibration			In-combination				
		C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D		
Sandbanks which are slightly covered by sea water all the time		N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)		
Estuaries		N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)		

Site	142																	
Name of European Site	Plymouth Sound and Estuaries SAC																	
Distance to East Anglia ONE North (km)	443km (shortest distance overland)																	
Large shallow inlets and bays	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)
Reefs	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)
Atlantic salt meadows	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)

a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see section 6.2.1, of the HRA Screening Report (APP-044)).

b) The distance between the offshore project area and the designated site is beyond the range of any potential LSE. Indirect far-field effects are limited to 1km of the works and for the duration of 1 tidal cycle (see paragraph 118 of APP-044).

Site	143											
Name of European Site:	Portsmouth Harbour SPA											
Distance to East Anglia ONE North (km)	286 (windfarm site) and 238 (offshore cable corridor)											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Nonbreeding brent goose, dunlin, black-tailed godwit, red-breasted merganser		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (b)	N (b)	N (b)

a) Survey data show little or no evidence of Portsmouth Harbour SPA features occurring in the East Anglia ONE North site (see section 5.1 of Appendix 12.2 (APP-470), and migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North site (see Table 8.2 of the HRA Screening Report (APP-044).

b) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Portsmouth Harbour SPA (see Table 8.2 of the HRA Screening Report (APP-044).

Site	**144**														
Name of European Site:	**Presqu'ile De Crozon SAC**														
Distance to East Anglia ONE North (km)	**704**														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Grey seal *Halichoerus grypus*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 189 and 190 and Table 8.2 of the HRA Screening Report (APP-044)).															

Site	**145**											
Name of European Site:	**Ramsar-Gebiet S-H Wattenmeer und angrenzende Küstengebiete SPA**											
Distance to East Anglia ONE North (km)	**419**											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Breeding seabirds including common gull, lesser black-backed gull, great black-backed gull, Mediterranean gull, black-headed gull, little tern, common tern, Arctic tern, Sandwich tern, black tern, gull-billed tern *Gelochelidon nilotica*		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (e)	N (e)	N (e)
Nonbreeding seabirds including razorbill, black-throated diver, red-throated diver, common gull, lesser black-backed gull, great black-backed gull, Mediterranean gull, black-headed gull, little gull, kittiwake, little tern, common tern, Arctic tern, Sandwich tern, cormorant, guillemot		N (b)		N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (e)	N (e)	N (e)
Waterbirds including pintail, shoveler, teal, wigeon, mallard, garganey *Anas querquedula*, grey heron *Ardea cinerea*, turnstone, bittern, brent goose, barnacle goose, sanderling, dunlin, curlew sandpiper, ringed plover,		N (c)		N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (e)	N (e)	N (e)

Site	**145**											
Name of European Site:	**Ramsar-Gebiet S-H Wattenmeer und angrenzende Küstengebiete SPA**											
Distance to East Anglia ONE North (km)	**419**											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Kentish plover *Charadrius alexandrinus*, Bewick's swan, whooper swan, snipe *Gallinago gallinago*, oystercatcher, black-winged stilt *Himantopus himantopus*, bar-tailed godwit, black-tailed godwit, common scoter, red-breasted merganser, curlew, whimbrel, ruff, spoonbill, golden plover, grey plover, red-necked grebe *Podiceps grisegena*, black-necked grebe *Podiceps nigricollis*, avocet, eider, shelduck, greenshank, redshank, lapwing												
Terrestrial birds (various species)		N (d)		N (d)	N (d)	N (d)	N (d)	N (d)	N (d)	N (d)	N (d)	N (d)
a) The East Anglia ONE North site is beyond maximum foraging range of designated breeding seabird species from this SPA, so has no breeding season connectivity. Proportions of these populations migrating through the East Anglia ONE North site are likely to be extremely small relative to BDMPS (see Table 8.2 of the HRA Screening Report (APP-044). b) Migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North site relative to the size of BDMPS regional populations, not only because of the distance, but also because seabirds and waterbirds from this SPA are likely to migrate												

Site	145											
Name of European Site:	Ramsar-Gebiet S-H Wattenmeer und angrenzende Küstengebiete SPA											
Distance to East Anglia ONE North (km)	419											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D

predominantly along the continental coast of the North Sea towards northern breeding grounds rather than across the southern North Sea (see Table 8.2 of the HRA Screening Report (APP-044).

c) Survey data show little or no evidence of these waterbird features occurring in the East Anglia ONE North OWF site (see section 5.1 of Appendix 12.2 (APP-470), and migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North site, as most of these birds are likely to remain on the continental side of the North Sea (see Table 8.2 of the HRA Screening Report (APP-044).

d) Terrestrial birds from this SPA are very unlikely to migrate to the UK; those that do migrate are more likely to follow the west European flyway along the continental coast (see Table 8.2 of the HRA Screening Report (APP-044).

e) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at this SPA (see Table 8.2 of the HRA Screening Report (APP-044).

Site	**146**														
Name of European Site:	**Récifs et marais arrière-littoraux du Cap Lévi à la Pointe de Saire SAC**														
Distance to East Anglia ONE North (km)	**385**														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Grey seal *Halichoerus grypus*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
Harbour seal *Phoca vitulina*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)

a) The distance between the potential impact range of East Anglia ONE North and the site is beyond that of potential for direct or indirect effects (see paragraphs 218 and 219 for harbour seal and paragraphs 189 and 190 for grey seal, of the HRA Screening Report (APP-044)).

Site	147																	
Name of European Site:	Recifs Gris-Nez Blanc-Nez SAC																	
Distance to East Anglia ONE North (km)	153 (windfarm site) and 132 (offshore cable corridor)																	
Marine Mammals																		
Site Features	Likely effect(s) of East Anglia ONE North																	
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination					
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D			
Harbour porpoise *Phocoena phocoena*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)			
Grey seal *Halichoerus grypus*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)			
Harbour seal *Phoca vitulina*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)			
Benthic Habitats																		
Site Features	Permanent loss			Temporary physical disturbance			Smothering due to increased suspended sediment			Re- mobilisation of contaminate d sediments			Underwater noise and vibration			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Sandbanks which are slightly covered by sea water all the time	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)		N (b)	N (b)		N (b)	N (b)	N (b)	N (b)
Reefs	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)		N (b)	N (b)		N (b)	N (b)	N (b)	N (b)

a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 218 and 219 for harbour seal, paragraphs 189 and 190 for grey seal and paragraphs 167 and 168 for harbour porpoise, of the HRA Screening Report (APP-044)).

Site	**147**
Name of European Site:	**Recifs Gris-Nez Blanc-Nez SAC**
Distance to East Anglia ONE North (km)	**153 (windfarm site) and 132 (offshore cable corridor)**
b) As it has been agreed through the scoping and Evidence Plan Process (EPP) (see Appendix 9.1 (APP-458)that transboundary effects are scoped out for EIA (given the distance to sites in other Members States jurisdictions) these have also been screened out from consideration for HRA purposes.	

Site	148																	
Name of European Site:	Ridens et dunes hydrauliques du detroit du Pas-de-Calais SAC																	
Distance to East Anglia ONE North (km)	136 (windfarm site) and 134 (offshore cable corridor)																	
Marine Mammals																		
Site Features	Likely effect(s) of East Anglia ONE North																	
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination					
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D			
Harbour porpoise *Phocoena phocoena*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)			
Grey seal *Halichoerus grypus*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)			
Harbour seal *Phoca vitulina*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)			
Benthic Habitats																		
Site Features	Permanent loss			Temporary physical disturbance			Smothering due to increased suspended sediment			Re- mobilisation of contaminate d sediments			Underwater noise and vibration			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Sandbanks which are slightly covered by sea water all the time	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)		N (b)	N (b)		N (b)	N (b)	N (b)	N (b)
Reefs	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)		N (b)	N (b)		N (b)	N (b)	N (b)	N (b)

Site	**148**
Name of European Site:	**Ridens et dunes hydrauliques du detroit du Pas-de-Calais SAC**
Distance to East Anglia ONE North (km)	**136 (windfarm site) and 134 (offshore cable corridor)**

a) The distance between the potential impact range of East Anglia ONE North and the site is beyond that of potential for direct or indirect effects (see paragraphs 218 and 219 for harbour seal, paragraphs 189 and 190 for grey seal and paragraphs 167 and 168 for harbour porpoise, of the HRA Screening Report (APP-044)).

b) As it has been agreed through the scoping and Evidence Plan Process (EPP) (see Appendix 9.1 (APP-458)that transboundary effects are scoped out for EIA (given the distance to sites in other Members States jurisdictions) these have also been screened out from consideration for HRA purposes.

Site	**149**																			
Name of European Site	**River Avon SAC**																			
Distance to East Anglia ONE North (km)	**250km (shortest distance overland)**																			
Fish																				
Site Features	Likely effect(s) of East Anglia ONE North																			
	Permanent habitat loss			Temporary physical disturbance			Smothering due to increased suspended sediment			Re- mobilisation of contaminated sediments			Underwater noise and vibration			Electromagnetic fields (EMF)			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Sea lamprey	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)
Salmon	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)

a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see section 6.2.1, of the HRA Screening Report (APP-044)).

Site	150
Name of European Site:	River Derwent SAC
Distance to East Anglia ONE North (km)	274 (windfarm site) and 268 (offshore cable corridor)

Site features	Likely effect(s) of East Anglia ONE North																				
	Permanent habitat loss			Temporary physical disturbance			Smothering due to increased suspended sediment			Re- mobilisation of contaminated sediments			Underwater noise and vibration			Electromagnetic fields (EMF)			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
River lamprey	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)

a) River lamprey are restricted to rivers and coasts so there can be no direct interaction with the proposed East Anglia ONE North project. Sea lamprey could in theory be present in the vicinity of the proposed East Anglia ONE North project, but given their life history interaction would be limited. The distance between the proposed project and the site precludes direct impact upon the site and its supporting habitats (see Table 5.2 of the HRA Screening Report (APP-470)).

Site	**151**
Name of European Site:	**Ronas Hill - North Roe and Tingon SPA**
Distance to East Anglia ONE North (km)	**926**

Site Features	**Likely effect(s) of East Anglia ONE North**											
	Collision mortality			**Displacement/Disturbance**			**Barrier Effect**			**Cumulative/In-combination**		
	C	**O**	**D**	**C**	**O**	**D**	**C**	**O**	**D**	**C**	**O**	**D**
Breeding great skua		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (d)	N (d)	N (d)
Breeding red-throated diver		N (b)		N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (d)	N (d)	N (d)
Breeding merlin		N (c)		N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (d)	N (d)	N (d)

a) Ronas Hill, North Roe & Tingon SPA is beyond maximum foraging range of great skua so has no breeding season connectivity. The proportion of the population migrating through the East Anglia ONE North site is likely to be extremely small relative to BDMPS (see Table 8.2 of the HRA Screening Report (APP-044)).

b) Ronas Hill, North Roe & Tingon SPA is beyond maximum foraging range of red-throated diver so has no breeding season connectivity. The proportion of the population migrating through the East Anglia ONE North site is likely to be extremely small relative to BDMPS (see Table 8.2 of the HRA Screening Report (APP-044)).

c) Merlins from this population are likely to migrate to wintering areas that are predominantly within the UK. A few, mostly young birds, may winter on the European continent so could possibly pass through the East Anglia ONE North site. However, no merlins have been seen during site specific surveys, and the chances of any from this SPA passing through the site are likely to be extremely low. (see Table 8.2 of the HRA Screening Report (APP-044)).

d) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Ronas Hill, North Roe & Tingon SPA. (see Table 8.2 of the HRA Screening Report (APP-044)).

Site	152											
Name of European Site:	Rousay SPA											
Distance to East Anglia ONE North (km)	818											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Breeding seabird assemblage including as named features guillemot, Arctic skua, Arctic tern, kittiwake, fulmar		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (b)	N (b)	N (b)

a) Rousay SPA is beyond maximum foraging range of designated seabird species so has no breeding season connectivity. Proportions of these populations migrating through the East Anglia ONE North site are small relative to BDMPS (see Table 8.2 of the HRA Screening Report (APP-044)).

b) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Rousay SPA (see Table 8.2 of the HRA Screening Report (APP-044)).

Site	**153**														
Name of European Site:	**Sälöfjorden SAC**														
Distance to East Anglia ONE North (km)	**850**														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour seal *Phoca vitulina*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)

a) The distance between the potential impact range of East Anglia ONE North and the site is beyond that of potential for direct or indirect effects (see paragraphs 218 and 219 and Table 8.2 of the HRA Screening Report (APP-044)).

Site	154														
Name of European Site:	Sanday SAC														
Distance to East Anglia ONE North (km)	814														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour seal *Phoca vitulina*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 218 and 219 and Table 8.2 of the HRA Screening Report (APP-044)).															

Site	155														
Name of European Site:	Sandbanker ud for Thorsminde SAC														
Distance to East Anglia ONE North (km)	557km														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour Porpoise *Phocoena phocoena*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 167 and 168 and Table 7.3 of the HRA Screening Report (APP-044)).															

Site	**156**														
Name of European Site:	**Sandbanker ud for Thyboron SAC**														
Distance to East Anglia ONE North (km)	**589km**														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour Porpoise *Phocoena phocoena*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 167 and 168 and Table 7.3 of the HRA Screening Report (APP-044)).															

Site	**157**								
Name of European Site:	**Sandlings SPA**								
Distance to East Anglia ONE North(km)	**Within onshore cable corridor**								
Site Features	Likely effect(s) of East Anglia ONE North								
	Habitat Loss			Displacement/Disturbance			In combination		
	C	O	D	C	O	D	C	O	D
Breeding nightjar *Caprimulgus europaeus*	Y (a)	Y (a)	Y (a)	Y (a)	Y (a)	Y (a)	Y (a)	Y (a)	Y (a)
Breeding woodlark *Lullula arborea*	Y (a)	Y (a)	Y (a)	Y (a)	Y (a)	Y (a)	Y (a)	Y (a)	Y (a)
a) Potential for direct and indirect effects (LSE) during all phases of development and therefore screened in (see Table 4.2 of the HRA Screening Report (APP-470).									

Site	**158**														
Name of European Site:	**SBZ 1 / ZPS 1 SAC**														
Distance to East Anglia ONE North (km)	**121**														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour seal *Phoca vitulina*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
Grey seal *Halichoerus grypus*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)

a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 218 and 219 for harbour seal and paragraphs 189 and 190 for harbour porpoise, of the HRA Screening Report (APP-044)).

Site	**159**														
Name of European Site:	**SBZ 2 / ZPS 2 SAC**														
Distance to East Anglia ONE North (km)	**110**														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Grey seal *Halichoerus grypus*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 189 and 190 and Table 8.2 of the HRA Screening Report (APP-044)).															

Site	**160**														
Name of European Site:	**SBZ 3 / ZPS 3 SAC**														
Distance to East Anglia ONE North (km)	**111**														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Grey seal *Halichoerus grypus*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 189 and 190 and Table 8.2 of the HRA Screening Report (APP-044)).															

Site	**161**																	
Name of European Site:	**Scanner Pockmark SAC**																	
Distance to East Anglia ONE North (km)	**657**																	
Site Features	Likely effect(s) of East Anglia ONE North																	
	Permanent loss			Temporary physical disturbance			Smothering due to increased suspended sediment			Re- mobilisation of contaminated sediments			Underwater noise and vibration			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Submarine structures made by leaking gases	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)		N (a)	N (a)		N (a)	N (a)	N (a)	N (a)

a) The distance between the offshore project area and the designated site is beyond the range of any potential LSE. Indirect far-field effects are limited to 1km of the works and for the duration of 1 tidal cycle (see paragraph 118 of APP-044)

Site	**162**
Name of European Site	**SchleswigHolsteinisches Elbastuar und angrenzende Flachen SAC**
Distance to East Anglia ONE North (km)	**445km**

Marine Mammals

Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour seal *Phoca vitulina*	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)		N (a)	N (a)	N (a)	N (a)

Fish

Site Features	Likely effect(s) of East Anglia ONE North																				
	Permanent habitat loss			Temporary physical disturbance			Smothering due to increased suspended sediment			Re- mobilisation of contaminated sediments			Underwater noise and vibration			Electromagnetic fields (EMF)			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Houting	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)
Twaite shad	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)
Lampern	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)
Great sea lamprey	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)

Site	**162**																			
Name of European Site	**SchleswigHolsteinisches Elbastuar und angrenzende Flachen SAC**																			
Distance to East Anglia ONE North (km)	**445km**																			
Salmon	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)
Benthic Habitats																				
Site Features	Likely effect(s) of East Anglia ONE North																			
	Permanent loss			Temporary physical disturbance			Smothering due to increased suspended sediment			Re- mobilisation of contaminate d sediments			Underwater noise and vibration			In-combination			
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D		
Estuaries	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)		
Mudflats and sandflats not covered by seawater at low tide	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)		
Large shallow inlets and bays	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)		
Salicornia and other annuals colonizing mud and sand	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)		
Atlantic salt meadows (Glauco-Puccinellietalia maritimae)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)		

Site	**162**
Name of European Site	**SchleswigHolsteinisches Elbastuar und angrenzende Flachen SAC**
Distance to East Anglia ONE North (km)	**445km**

a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 218 and 219, of the HRA Screening Report (APP-044)).

b) It was agreed as part of the East Anglia ONE North Scoping and Evidence Plan Process (EPP) (see Appendix 9.1 (APP-458) and Appendix 10.1 (APP-462) that transboundary impacts on fish and benthic habitats would be scoped out of the EIA. We have therefore screened them out from consideration in the HRA

Site	**163**
Name of European Site:	**Seevogelschutzgebiet Helgoland SPA**
Distance to East Anglia ONE North (km)	**405**

Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Breeding seabird assemblage including as named features razorbill, fulmar, herring gull, lesser black-backed gull, kittiwake, gannet, guillemot		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (c)	N (c)	N (c)
Nonbreeding seabird assemblage including razorbill, black-throated diver, red-throated diver, common gull, lesser black-backed gull, little gull, kittiwake, common scoter, red-necked grebe, eider, common tern, Arctic tern, Sandwich tern, gannet, guillemot		N (b)		N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (c)	N (c)	N (c)

a) Tracking data from gannets breeding on Helgoland show these birds do not travel in the direction of or as far as the East Anglia ONE North site despite this site being within theoretical maximum foraging range of gannet. East Anglia ONE North is beyond the maximum foraging range of other seabird species at Seevogelschutzgebeit Helgoland SPA. Proportions of these populations migrating through East Anglia ONE North are likely to be very small relative to BDMPS regional populations (see Table 8.2 of the HRA Screening Report (APP-044)).

b) Migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North site during migration relative to the size of BDMPS regional populations, not only because the sites are 428km apart, but also because nonbreeding seabirds from this SPA are likely to migrate predominantly along the continental coast of the North Sea towards northern breeding grounds rather than across the southern North Sea (see Table 8.2 of the HRA Screening Report (APP-044)).

Site	163
c)	The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Seevogelschutzgebeit Helgoland SPA (see Table 8.2 of the HRA Screening Report (APP-044)).

Site	164
Name of European Site	Severn Estuary SAC
Distance to East Anglia ONE North (km)	278km (shortest distance overland)

Fish

Site Features	Likely effect(s) of East Anglia ONE North																				
	Permanent habitat loss			Temporary physical disturbance			Smothering due to increased suspended sediment			Re- mobilisation of contaminated sediments			Underwater noise and vibration			Electromagnetic fields (EMF)			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Sea Lamprey	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)
River lamprey	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)
Twaite shad	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)

Benthic Habitats

	Likely effect(s) of East Anglia ONE North

Site	164																	
Name of European Site	Severn Estuary SAC																	
Distance to East Anglia ONE North (km)	278km (shortest distance overland)																	
Site Features		Permanent loss			Temporary physical disturbance			Smothering due to increased suspended sediment			Re- mobilisation of contaminated sediments			Underwater noise and vibration			In-combination		
		C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Estuaries		N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)
Mudflats and sandflats not covered by seawater at low tide		N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)
Atlantic salt meadows		N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)

a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see section 6.2.1, of the HRA Screening Report (APP-044)).

b) The distance between the offshore project area and the designated site is beyond the range of any potential LSE. Indirect far-field effects are limited to 1km of the works and for the duration of 1 tidal cycle (see paragraph 118 of APP-044).

Site	**165**														
Name of European Site:	**Skagens Gren og Skagerrak SAC**														
Distance to East Anglia ONE North (km)	**754**														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour porpoise *Phocoena phocoena*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)

a) The distance between the potential impact range of East Anglia ONE North and the site is beyond that of potential for direct or indirect effects (see paragraphs 167 and 168, of the HRA Screening Report (APP-044)).

Site	166											
Name of European Site:	Solent & Southampton Water SPA & Ramsar (cable corridor)											
Distance to East Anglia ONE North (km)	294											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Nonbreeding teal, brent goose, ringed plover, black-tailed godwit		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (d)	N (d)	N (d)
Breeding Mediterranean gull		N (b)		N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)
Breeding little tern, common tern, roseate tern, Sandwich tern		N (c)		N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)

a) Survey data show little or no evidence of Solent & Southampton Water SPA and Ramsar features occurring in the East Anglia ONE North site (see section 5.1 of Appendix 12.2 (APP-470), and migrations of birds from this site are likely to result in negligible numbers passing through the East Anglia ONE North site (see Table 8.2 of the HRA Screening Report (APP-044)).

b) No Mediterranean gulls were recorded in the East Anglia ONE North site during bird surveys. This species is scarce in England, although increasing. Birds from the SPA are unlikely to migrate through the East Anglia ONE North site. Thaxter et al. (2012) report the maximum foraging range of breeding Mediterranean gulls as 20km, so birds from this SPA will not have connectivity with the East Anglia ONE North site during breeding. (see Table 8.2 of the HRA Screening Report (APP-044)).

c) Little tern, common tern, roseate tern and Sandwich tern have maximum foraging ranges from colonies of 11km, 30km, 30km and 54km respectively (Thaxter et al. 2012), so there is no connectivity between the SPA and the East Anglia ONE North site which are 244km apart. Furthermore, these species tend to forage in coastal waters rather than offshore. Therefore, collision risk, displacement and barrier effects can be excluded. (see Table 8.2 of the HRA Screening Report (APP-044)).

d) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Solent & Southampton Water SPA and Ramsar (see Table 8.2 of the HRA Screening Report (APP-044)).

Site	**167**														
Name of European Site:	**Soteskär SAC**														
Distance to East Anglia ONE North (km)	**863**														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour seal *Phoca vitulina*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 218 and 219 of the HRA Screening Report (APP-044)).															

Site	**168**														
Name of European Site:	**Southern North Sea SAC**														
Distance to East Anglia ONE North (km)	**0 (cable corridor and windfarm site)**														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour porpoise *Phocoena phocoena*	**Y(a)**	**Y(a)**	**Y(a)**	**Y(a)**	**Y(a)**	**Y(a)**	**Y(a)**	**Y(a)**	**Y(a)**	**Y(a)**		**Y(a)**	**Y(a)**	**Y(a)**	**Y(a)**
a) The offshore project area is within the SAC and therefore LSE cannot be ruled out at the screening stage. It is assumed that all harbour porpoise in this area are associated with this SAC (see paragraphs 167 and 168, of the HRA Screening Report (APP-044)).															

Site	169											
Name of European Site:	St Abb's Head to Fast Castle SPA											
Distance to East Anglia ONE North (km)	481											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Breeding seabird assemblage including as named features herring gull, kittiwake, razorbill, guillemot, shag		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (b)	N (b)	N (b)

a) St Abbs Head to Fast Castle SPA is beyond maximum foraging range of designated seabird species so has no breeding season connectivity. Proportions of these populations migrating through the East Anglia ONE North site are likely to be very small relative to BDMPS (see Table 8.2 of the HRA Screening Report (APP-044)).

b) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at St Abbs Head to Fast Castle SPA (see Table 8.2 of the HRA Screening Report (APP-044)).

Site **Name of European Site:** **Distance to East Anglia ONE North (km)**	**170** **Staverton Park and the Thicks Wantisden SAC** **6 (onshore cable corridor)**		
Site Features	Likely effect(s) of East Anglia ONE North		
	Habitat Loss		
	C	O	D
Old acidophilous oak woods with *Euercus robur* on sandy plains	N(a)	N(a)	N(a)
a) No overlap therefore no direct effect and beyond the range of potential significant indirect effect (see Table 3.2 of the HRA Screening Report (APP-470).			

Site	171														
Name of European Site:	**Steingrund SAC**														
Distance to East Anglia ONE North (km)	**411**														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour porpoise *Phocoena phocoena*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
Grey seal *Halichoerus grypus*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
Harbour seal *Phoca vitulina*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)

a) The distance between the potential impact range of East Anglia ONE North and the site is beyond that of potential for direct or indirect effects (see paragraphs 218 and 219 for harbour seal, paragraphs 189 and 190 for grey seal and paragraphs 167 and 168 for harbour porpoise, of the HRA Screening Report (APP-044)).

Site	**172**														
Name of European Site:	**Store Rev SCI**														
Distance to East Anglia ONE North (km)	**720**														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour porpoise *Phocoena phocoena*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)

a) The distance between the potential impact range of East Anglia ONE North and the site is beyond that of potential for direct or indirect effects (see paragraphs 167 and 168, of the HRA Screening Report (APP-044)).

Site	**173**											
Name of European Site:	**Stour & Orwell Estuaries SPA and Ramsar**											
Distance to East Anglia ONE North (km)	**35 (windfarm site) and 87 (offshore cable corridor)**											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Wintering and passage waterbird assemblage including as named features pintail, wigeon, gadwall, turnstone, brent goose, goldeneye, dunlin, knot, ringed plover, black-tailed godwit, curlew, cormorant, grey plover, great crested grebe, shelduck, redshank, lapwing		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (c)	N (c)	N (c)
Breeding avocet		N (b)		N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (c)	N (c)	N (c)

a) Survey data show little or no evidence of Stour & Orwell Estuaries SPA features occurring in the East Anglia ONE North site (see section 5.1 of Appendix 12.2 (APP-470)., and migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North site

b) Survey data show no evidence of Stour & Orwell Estuaries SPA feature avocet occurring in the East Anglia ONE North OWF site (see section 5.1 of Appendix 12.2 (APP-470)., and migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North site (see Table 8.2 of the HRA Screening Report (APP-044)).

c) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Stour & Orwell Estuaries SPA and Ramsar (see Table 8.2 of the HRA Screening Report (APP-044)).

Site	174														
Name of European Site:	Strandenge på Læsø og havet syd herfor SAC														
Distance to East Anglia ONE North (km)	850														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Grey seal *Halichoerus grypus*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
Harbour seal *Phoca vitulina*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)

a) The distance between the potential impact range of East Anglia ONE North and the site is beyond that of potential for direct or indirect effects (see paragraphs 218 and 219 for harbour seal and paragraphs 189 and 190 for grey seal, of the HRA Screening Report (APP-044)).

Site	**175**
Name of European Site:	**Sumburgh Head SPA**
Distance to East Anglia ONE North (km)	**855**

Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Breeding seabird assemblage including as named features kittiwake, fulmar, guillemot, Arctic tern		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (b)	N (b)	N (b)

a) Sumburgh Head SPA is beyond maximum foraging range of designated seabird species so has no breeding season connectivity. Proportions of these populations migrating through the East Anglia ONE North site are likely to be very small relative to BDMPS (see Table 8.2 of the HRA Screening Report (APP-044)).

b) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Sumburgh Head SPA (see Table 8.2 of the HRA Screening Report (APP-044)).

Site	**176**														
Name of European Site:	**Sydlige Nordsø SAC**														
Distance to East Anglia ONE North (km)	**431**														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour porpoise *Phocoena phocoena*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
Grey seal *Halichoerus grypus*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
Harbour seal *Phoca vitulina*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)

a) The distance between the potential impact range of East Anglia ONE North and the site is beyond that of potential for direct or indirect effects (see paragraphs 218 and 219 for harbour seal, paragraphs 189 and 190 for grey seal and paragraphs 167 and 168 for harbour porpoise, of the HRA Screening Report (APP-044)).

Site	**177**
Name of European Site:	**Sylter Außenriff SCI**
Distance to East Anglia ONE North (km)	**478 (windfarm site) and 497 (offshore cable corridor)**

Ornithology

Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Nonbreeding seabird assemblage including black-throated diver, red-throated diver, common gull, lesser black-backed gull, great black-backed gull, little gull, gannet, kittiwake, common tern, Arctic tern, Sandwich tern, guillemot		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (b)	N (b)	N (b)

Marine mammals

Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour porpoise *Phocoena phocoena*	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)		N (c)	N (c)	N (c)	N (c)
Grey seal *Halichoerus grypus*	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)		N (c)	N (c)	N (c)	N (c)
Harbour seal *Phoca vitulina*	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)		N (c)	N (c)	N (c)	N (c)

Fish

Site Features	Likely effect(s) of East Anglia ONE North						
	Permanent habitat loss	Temporary physical disturbance	Smothering due to increased suspended sediment	Re- mobilisation of contaminated sediments	Underwater noise and vibration	Electromagnetic fields (EMF)	In-combination

Site	177																				
Name of European Site:	Sylter Außenriff SCI																				
Distance to East Anglia ONE North (km)	478 (windfarm site) and 497 (offshore cable corridor)																				
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
River lamprey	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)
Twaite shad	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)

a) Migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North site relative to the size of BDMPS regional populations, not only because the sites are 400km apart, but also because nonbreeding seabirds from this SPA are likely to migrate predominantly along the continental coast of the North Sea towards northern breeding grounds rather than across the southern North Sea. (see Table 8.2 of the HRA Screening Report (APP-044))

b) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Sylter Außenriff SPA (see Table 8.2 of the HRA Screening Report (APP-044)).

c) It was agreed as part of the East Anglia ONE North Scoping and Evidence Plan Process (EPP) (see Appendix 10.1 (APP-462) that transboundary impacts on fish would be scoped out of the EIA. We have therefore screened them out from consideration in the HRA.

Site	**178**
Name of European Site:	**Teesmouth and Cleveland Coast SPA and Ramsar**
Distance to East Anglia ONE North (km)	**331 (windfarm site) and 322 (offshore cable corridor)**

Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Nonbreeding knot, redshank		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (d)	N (d)	N (d)
Nonbreeding Sandwich tern		N (b)		N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (d)	N (d)	N (d)
Breeding little tern		N (c)		N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)

a) Survey data show little or no evidence of Teesmouth & Cleveland Coast SPA features knot or redshank occurring in the East Anglia ONE North site (see section 5.1 of Appendix 12.2 (APP-470), and migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North site (see Table 8.2 of the HRA Screening Report (APP-044).

b) Nonbreeding Sandwich terns at Teesmouth & Cleveland Coast SPA may migrate between the SPA and wintering areas off west Africa. This could take them near to East Anglia ONE North. However, very few terns of any species were seen in the East Anglia ONE North site during bird surveys, and the Sandwich tern tends to migrate close to the coast where that is possible, so there are unlikely to be significant numbers reaching the East Anglia ONE North site. The few that do will have a very low collision risk due to their generally low flight height and displacement/barrier effects will be negligible in the context of a migration of thousands of kilometres. (see Table 8.2 of the HRA Screening Report (APP-044).

c) Breeding little tern has a maximum foraging range of 11km from colonies (Thaxter et al. 2012), so would have no connectivity with East Anglia ONE North. Migrating little terns are considered to be 'extremely coastal on passage with very few sightings in open ocean or inland' (Forrester et al. 2007), so are unlikely to pass through the East Anglia ONE North site. (see Table 8.2 of the HRA Screening Report (APP-044).

d) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Teesmouth & Cleveland Coast SPA and Ramsar. (see Table 8.2 of the HRA Screening Report (APP-044).

Site	179											
Name of European Site:	Thames Estuary and Marshes SPA and Ramsar											
Distance to East Anglia ONE North (km)	99 (windfarm site)											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Wintering and passage waterbird assemblage including as named features dunlin, knot, ringed plover, black-tailed godwit, grey plover, avocet, redshank		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (c)	N (c)	N (c)
Nonbreeding hen harrier		N (b)		N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (c)	N (c)	N (c)

a) Survey data show little or no evidence of Thames Estuary & Marshes SPA features occurring in the East Anglia ONE North site (see section 5.1 of Appendix 12.2 (APP-470), and migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North site. (see Table 8.2 of the HRA Screening Report (APP-044).

b) Survey data show no evidence of hen harrier occurring in the East Anglia ONE North site (see section 5.1 of Appendix 12.2 (APP-470), and migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North site, as the species is likely to migrate overland rather than over sea where the option is available. (see Table 8.2 of the HRA Screening Report (APP-044).

c) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Thames Estuary & Marshes SPA and Ramsar. (see Table 8.2 of the HRA Screening Report (APP-044).

Site	**180**											
Name of European Site:	**Thanet Coast and Sandwich Bay SPA and Ramsar**											
Distance to East Anglia ONE North (km)	**118 (windfarm site) and 88 (offshore cable corridor)**											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Nonbreeding turnstone, golden plover		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (c)	N (c)	N (c)
Breeding little tern		N (b)		N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)

a) Survey data show little or no evidence of Thanet Coast & Sandwich Bay SPA features turnstone or golden plover occurring in the East Anglia ONE North site (see section 5.1 of Appendix 12.2 (APP-470), and migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North site.

b) Breeding little tern has a maximum foraging range of 11km from colonies (Thaxter et al. 2012), so would have no connectivity with the East Anglia ONE North site. Migrating little terns are considered to be 'extremely coastal on passage with very few sightings in open ocean or inland' (Forrester et al. 2007), so are unlikely to pass through the East Anglia ONE North site. (see Table 8.2 of the HRA Screening Report (APP-044).

c) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Thanet Coast & Sandwich Bay SPA and Ramsar. (see Table 8.2 of the HRA Screening Report (APP-044).

Site	**181**																	
Name of European Site:	**Thanet Coast SAC**																	
Distance to East Anglia ONE North (km)	**89 (offshore cable corridor)**																	
Site Features	Likely effect(s) of East Anglia ONE North																	
	Permanent loss			Temporary physical disturbance			Smothering due to increased suspended sediment			Re- mobilisation of contaminated sediments			Underwater noise and vibration			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Sandbanks which are slightly covered by sea water all the time	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)		N (a)	N (a)		N (a)	N (a)	N (a)	N (a)
Mudflats and sandflats not covered by seawater at low tide	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)		N (a)	N (a)		N (a)	N (a)	N (a)	N (a)
Reefs	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)		N (a)	N (a)		N (a)	N (a)	N (a)	N (a)

a) The distance between the offshore project area and the designated site is beyond the range of any potential LSE. Indirect far-field effects are limited to 1km of the works and for the duration of 1 tidal cycle (see paragraph 118 of APP-044)

Site	**182**											
Name of European Site:	**The Swale SPA & Ramsar**											
Distance to East Anglia ONE North (km)	**140 (windfarm site) and 98 (offshore cable corridor)**											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Wintering and passage waterbird assemblage including as named features brent goose, dunlin, redshank		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (b)	N (b)	N (b)

a) Survey data show little or no evidence of The Swale SPA and Ramsar features occurring in the East Anglia ONE North site (see section 5.1 of Appendix 12.2 (APP-470), and migrations of birds from this site are likely to result in negligible numbers passing through the East Anglia ONE North site (see Table 8.2 of the HRA Screening Report (APP-044).

b) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at The Swale SPA and Ramsar (see Table 8.2 of the HRA Screening Report (APP-044).

Site	183																
Name of European Site:	The Wash and North Norfolk Coast SAC																
Distance to East Anglia ONE North (km)	105 (windfarm site) and 97 (cable corridor)																
Marine Mammals																	
Site Features	Likely effect(s) of East Anglia ONE North																
	Underwater noise			Vessel Interactions/ disturbance at seal haul out sites			Indirect effects on prey			Changes to water quality			In-combination				
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D		
Harbour seal *Phoca vitulina*	**Y (a)**	**Y (a)**	**Y (a)**	**Y (a)**	**Y (a)**	**Y (a)**	**Y (a)**	**Y (a)**	**Y (a)**	**Y (a)**		**Y (a)**	**Y (a)**	**Y (a)**	**Y (a)**		
Grey seal *Halichoerus grypus*	**Y (a)**	**Y (a)**	**Y (a)**	**Y (a)**	**Y (a)**	**Y (a)**	**Y (a)**	**Y (a)**	**Y (a)**	**Y (a)**		**Y (a)**	**Y (a)**	**Y (a)**	**Y (a)**		
Benthic Habitats																	
Site Features	Permanent loss			Temporary physical disturbance			Smothering due to increased suspended sediment			Re- mobilisation of contaminated sediments			Underwater noise and vibration			In-combination	
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Sandbanks which are slightly covered by sea water all the time	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)		N (b)	N (b)		N (b)	N (b)	N (b)	N (b)
Mudflats and sandflats not covered by seawater at low tide	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)		N (b)	N (b)		N (b)	N (b)	N (b)	N (b)
Large shallow inlets and bays	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)		N (b)	N (b)		N (b)	N (b)	N (b)	N (b)

Site	**183**
Name of European Site:	**The Wash and North Norfolk Coast SAC**
Distance to East Anglia ONE North (km)	**105 (windfarm site) and 97 (cable corridor)**

a) Potential effects from underwater noise; vessel interactions; changes to water quality; changes to prey resources; and disturbance at seal haul-out sites for foraging grey and harbour seal cannot be ruled out. Nearest SAC for harbour seal to East Anglia ONE North. Assumed that all harbour seal in the East Anglia ONE North area are associated with this SAC. Potential for vessel interactions and disturbance at seal haul-out sites depending on vessel route and therefore LSE cannot be ruled out (see Table 7.2 of the HRA Screening Report (APP-044).

b) The distance between East Anglia ONE North and the designated site is beyond the range of any potential LSE. Indirect far-field effects are limited to 1km of the works and for the duration of 1 tidal cycle (see paragraph 118 of APP-044)

Site	**184**
Name of European Site:	**The Wash SPA and Ramsar**
Distance to East Anglia ONE North (km)	**192 (windfarm site) and 104 (offshore cable corridor)**

Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Wintering and passage waterbird assemblage including as named features pintail, wigeon, gadwall, pink-footed goose, turnstone, brent goose, goldeneye, sanderling, dunlin, knot, Bewick's swan, oystercatcher, bar-tailed godwit, black-tailed godwit, common scoter, curlew, grey plover, shelduck, redshank		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (c)	N (c)	N (c)
Breeding little tern, common tern		N (b)		N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)

a) Survey data show little or no evidence of The Wash SPA features occurring in the East Anglia ONE North site (see section 5.1 of Appendix 12.2 (APP-470)., and migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North site) (see Table 8.2 of the HRA Screening Report (APP-044)).

b) Little tern and common tern have maximum foraging ranges from colonies of 11km and 30km respectively (Thaxter et al. 2012), so there is no connectivity between the SPA and East Anglia ONE North site which are 106km apart. Furthermore, these species tend to forage in coastal waters rather than offshore. Therefore, collision risk, displacement and barrier effects can be excluded. (see Table 8.2 of the HRA Screening Report (APP-044)).

c) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at The Wash SPA and Ramsar (see Table 8.2 of the HRA Screening Report (APP-044)).

Site	**185**														
Name of European Site:	**Thyboron Stenvolde SCI**														
Distance to East Anglia ONE North (km)	**572km**														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour Porpoise *Phocoena phocoena*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 167 and 168 and Table 7.3 of the HRA Screening Report (APP-044)).															

Site	**186**														
Name of European Site:	**Tregor Goëlo SAC**														
Distance to East Anglia ONE North (km)	**556**														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Grey seal *Halichoerus grypus*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)

a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 189 and 190 and Table 8.2 of the HRA Screening Report (APP-044)).

Site	**187**											
Name of European Site:	**Troup, Pennan and Lion`s Heads SPA**											
Distance to East Anglia ONE North (km)	**650**											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Breeding seabird assemblage including as named features razorbill, fulmar, guillemot, kittiwake, herring gull		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (b)	N (b)	N (b)

a) Troup, Pennan & Lion's Heads SPA is beyond maximum foraging range of designated seabird species so has no breeding season connectivity. Proportions of these populations migrating through the East Anglia ONE North site are likely to be very small relative to BDMPS (see Table 8.2 of the HRA Screening Report (APP-044)).

b) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Troup, Pennan & Lion's Heads SPA (see Table 8.2 of the HRA Screening Report (APP-044)).

Site	**188**
Name of European Site	**Unterelbe SCI**
Distance to East Anglia ONE North (km)	**445km**

Fish

Site Features	Likely effect(s) of East Anglia ONE North																				
	Permanent habitat loss			Temporary physical disturbance			Smothering due to increased suspended sediment			Re- mobilisation of contaminated sediments			Underwater noise and vibration			Electromagnetic fields (EMF)			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Houting	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)
Twaite shad	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)
Lampern	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)
Great sea lamprey	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)
Salmon	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)

a) It was agreed as part of the East Anglia ONE North Scoping and Evidence Plan Process (EPP) (see Appendix 10.1 (APP-462) that transboundary impacts on fish would be scoped out of the EIA. We have therefore screened them out from consideration in the HRA

Site	**189**														
Name of European Site:	**Unterems und Außenems SCI**														
Distance to East Anglia ONE North (km)	**320**														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour seal *Phoca vitulina*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)

a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 189 and 190 and Table 8.2 of the HRA Screening Report (APP-044)).

Site	190														
Name of European Site:	Vadehavet med Ribe Å, Tved Å og Varde Å vest for Varde SAC														
Distance to East Anglia ONE North (km)	477														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour porpoise *Phocoena phocoena*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
Grey seal *Halichoerus grypus*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
Harbour seal *Phoca vitulina*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)

a) The distance between the potential impact range of East Anglia ONE North and the site is beyond that of potential for direct or indirect effects (see paragraphs 218 and 219 for harbour seal, paragraphs 189 and 190 for grey seal and paragraphs 167 and 168 for harbour porpoise, of the HRA Screening Report (APP-044)).

Site	191														
Name of European Site:	Venø, Venø Sund SAC														
Distance to East Anglia ONE North (km)	633														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour seal *Phoca vitulina*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)

a) The distance between the potential impact range of East Anglia ONE North and the site is beyond that of potential for direct or indirect effects (see paragraphs 218 and 219 and Table 7.3 of the HRA Screening Report (APP-044)).

Site	**192**															
Name of European Site:	**Vlaamse Banken SAC**															
Distance to East Anglia ONE North (km)	**86 (windfarm site) and 89 (offshore cable corridor)**															
Marine Mammals																
Site Features	Likely effect(s) of East Anglia ONE North															
	Underwater noise			Vessel Interactions and disturbance at seal haul outs			Indirect effects on prey			Changes to water quality			In-combination			
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	
Harbour porpoise *Phocoena phocoena*	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)		N (a)	N (a)	N (a)	N (a)	
Grey seal *Halichoerus grypus*	**Y (d)**	**Y (d)**	**Y (d)**	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)		N (a)	N (a)	N (a)	N (a)	
Harbour seal *Phoca vitulina*	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)		N (a)	N (a)	N (a)	N (a)	

Fish																					
Site Features	Likely effect(s) of East Anglia ONE North																				
	Permanent habitat loss			Temporary physical disturbance			Smothering due to increased suspended sediment			Re- mobilisation of contaminated sediments			Underwater noise and vibration			Electromagnetic fields (EMF)			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D

Site	192																			
Name of European Site:	Vlaamse Banken SAC																			
Sea Lamprey	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)
Twaite Shad	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)	N(b)

Benthic habitats

Site Features	Permanent loss			Temporary physical disturbance			Smothering due to increased suspended sediment			Re- mobilisation of contaminate d sediments			Underwater noise and vibration			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Reefs	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)
Sandbanks which are slightly covered by sea water all the time	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)	N(c)

a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 218 and 219 for harbour seal, paragraphs 189 and 190 for grey seal and paragraphs 167 and 168 for harbour porpoise, of the HRA Screening Report (APP-044)).

b) It was agreed as part of the East Anglia ONE North Scoping Report that transboundary impacts on fish would be scoped out of the EIA. We have therefore screened them out from consideration in the HRA.

c) As it has been agreed through the scoping and Evidence Plan Process (EPP) Appendix 10.1 (APP-462) that transboundary effects are scoped out for EIA (given the distance to sites in other Members States jurisdictions) these have also been screened out from consideration for HRA purposes.

d) The East Anglia ONE North windfarm site is within the foraging range of grey seal and therefore the potential for LSE from underwater noise impacts cannot be ruled out (see Table 7.3 of the HRA Screening Report (APP-044)).

Site	**193**
Name of European Site:	**Vlakte van de Raan SCI/SAC**
Distance to East Anglia ONE North (km)	**108 (windfarm site) and 117 (offshore cable corridor)**

Marine Mammals

Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour porpoise *Phocoena phocoena*	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)		N (a)	N (a)	N (a)	N (a)
Grey seal *Halichoerus grypus*	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)		N (a)	N (a)	N (a)	N (a)
Harbour seal *Phoca vitulina*	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)		N (a)	N (a)	N (a)	N (a)

Fish

Site Features	Likely effect(s) of East Anglia ONE North																				
	Permanent habitat loss			Temporary physical disturbance			Smothering due to increased suspended sediment			Re- mobilisation of contaminated sediments			Underwater noise and vibration			Electromagnetic fields (EMF)			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Sea Lamprey	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)
River lamprey	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)

Site	**193**																				
Name of European Site:	**Vlakte van de Raan SCI/SAC**																				
Distance to East Anglia ONE North (km)	**108 (windfarm site) and 117 (offshore cable corridor)**																				
Twaite Shad	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)

a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 218 and 219 for harbour seal, paragraphs 189 and 190 for grey seal and paragraphs 167 and 168 for harbour porpoise, of the HRA Screening Report (APP-044)).

b) It was agreed as part of the East Anglia ONE North Scoping and Evidence Plan Process (EPP) (see Appendix 10.1 (APP-462) that transboundary impacts on fish would be scoped out of the EIA. We have therefore screened them out from consideration in the HRA.

Site	**194**														
Name of European Site	**Voordelta SAC and SPA**														
Distance to East Anglia ONE North (km)	**93 (windfarm site) and 107 (offshore cable corridor)**														
Ornithology															
Site Features	Likely effect(s) of East Anglia ONE North														
		Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination				
		C	O	D	C	O	D	C	O	D	C	O	D		
Wintering and passage waterbirds including cormorant, shelduck, ringed plover, dunlin, goldeneye, sanderling, little gull, eider, great crested grebe, greylag goose, Sandwich tern, avocet, gadwall, Slavonian grebe, spoonbill, red-breasted merganser, pintail, red-throated diver, bar-tailed godwit, oystercatcher, shoveler, wigeon, turnstone, scaup, redshank, common tern, teal, curlew, grey plover, common scoter			N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N(a)	N (b)	N (b)	N (b)		
Marine Mammals															
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour porpoise *Phocoena phocoena*	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)		N (c)	N (c)	N (c)	N (c)
Grey seal *Halichoerus grypus*	**Y (d)**	**Y (d)**	**Y (d)**	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)		N (c)	N (c)	N (c)	N (c)
Harbour seal *Phoca vitulina*	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (c)		N (c)	N (c)	N (c)	N (c)
Fish															

Site	**194**																				
Name of European Site	**Voordelta SAC and SPA**																				
Distance to East Anglia ONE North (km)	**93 (windfarm site) and 107 (offshore cable corridor)**																				
Site Features	Likely effect(s) of East Anglia ONE North																				
	Permanent habitat loss			Temporary physical disturbance			Smothering due to increased suspended sediment			Re- mobilisation of contaminated sediments			Underwater noise and vibration			Electromagnetic fields (EMF)			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Sea lamprey	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)
River lamprey	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)
Allis shad	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)
Twaite shad	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)	N(e)
Benthic Habitats																					
Site Features	Likely effect(s) of East Anglia ONE North																				
				Permanent loss			Temporary physical disturbance			Smothering due to increased suspended sediment			Re- mobilisation of contaminate d sediments			Underwater noise and vibration			In-combination		
				C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D

Site	194																	
Name of European Site	Voordelta SAC and SPA																	
Distance to East Anglia ONE North (km)	93 (windfarm site) and 107 (offshore cable corridor)																	
Sandbanks which are slightly covered by sea water all the time	N(f)	N(f)	N(f)	N(f)	N(f)	N(f)	N(f)	N(f)	N(f)	N(f)	N(f)	N(f)	N(f)	N(f)	N(f)	N(f)	N(f)	N(f)

a) Survey data show little or no evidence of Voordelta SPA features occurring in the East Anglia ONE North site (see section 5.1 of Appendix 12.2 (APP-470), and migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North site (see Table 8.2 of the HRA Screening Report (APP-044)).

b) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Voordelta SPA (see Table 8.2 of the HRA Screening Report (APP-044)).

c) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 218 and 219 for harbour seal, paragraphs 189 and 190 for grey seal and paragraphs 167 and 168 for harbour porpoise, of the HRA Screening Report (APP-044)).

d) The East Anglia ONE North windfarm site is within the foraging range of grey seal and therefore the potential for LSE from underwater noise impacts cannot be ruled out (see Table 7.3 of the HRA Screening Report (APP-044)).

e) It was agreed as part of the East Anglia ONE North Scoping and Evidence Plan Process (EPP) (see Appendix 10.1 (APP-462)that transboundary impacts on fish would be scoped out of the EIA. We have therefore screened them out from consideration in the HRA

f) As it has been agreed through the scoping and Evidence Plan Process (EPP) (see Appendix 9.1 (APP-458))that transboundary effects are scoped out for EIA (given the distance to sites in other Members States jurisdictions) these have also been screened out from consideration for HRA purposes.

Site	**195**														
Name of European Site:	**Vrångöskärgården SAC**														
Distance to East Anglia ONE North (km)	**863**														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour seal *Phoca vitulina*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)

a) The distance between the potential impact range of East Anglia ONE North and the site is beyond that of potential for direct or indirect effects (see paragraphs 218 and 219 and Table 7.3 of the HRA Screening Report (APP-044)).

Site	196											
Name of European Site:	Waddenzee (Wadden Sea) SPA											
Distance to East Anglia ONE North (km)	157											
Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Breeding seabird assemblage including as named features lesser black-backed gull, little tern, common tern, Arctic tern, Sandwich tern		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (d)	N (d)	N (d)
Breeding waterbirds including Kentish plover, ringed plover, marsh harrier, spoonbill, avocet		N (b)		N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (d)	N (d)	N (d)
Wintering and passage waterbirds including pintail, shoveler, teal, wigeon, mallard, gadwall, greylag goose, bean goose *Anser fabalis*, turnstone, scaup, brent goose, barnacle goose, goldeneye, sanderling, dunlin, knot, curlew sandpiper, ringed plover, black tern *Chlidonias niger*, hen harrier, Bewick's swan, oystercatcher, bar-tailed godwit, black-tailed godwit, red-breasted merganser, goosander, curlew, cormorant, spoonbill, golden plover, grey plover, great crested grebe, avocet, eider, shelduck,		N (c)		N (c)	N (c)	N (c)	N (c)	N (c)	N (c)	N (d)	N (d)	N (d)

Site	**196**
Name of European Site:	**Waddenzee (Wadden Sea) SPA**
Distance to East Anglia ONE North (km)	**157**

greenshank, redshank, lapwing												

a) The East Anglia ONE North site is far beyond the mean maximum foraging range of designated breeding seabird species from this SPA, so has no breeding season connectivity. Proportions of these populations migrating through the East Anglia ONE North site are likely to be extremely small relative to BDMPS, not only because of the distance, but also because birds from this SPA are likely to use the west European flyway along the continental coast rather than crossing the southern North Sea. Lesser black-backed gull tracking has shown breeding birds do not cross the North Sea therefore no connectivity is expected for this species. (see Table 8.2 of the HRA Screening Report (APP-044)).

b) Survey data show little or no evidence of Waddenzee SPA breeding waterbird features occurring in the East Anglia ONE North site (see section 5.1 of Appendix 12.2 (APP-470), and migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North site (see Table 8.2 of the HRA Screening Report (APP-044)).

c) Survey data show little or no evidence of Waddenzee SPA nonbreeding waterbird features occurring in the East Anglia ONE North site (see section 5.1 of Appendix 12.2 (APP-470), and migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North site (see Table 8.2 of the HRA Screening Report (APP-044)).

d) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Waddenzee SPA (see Table 8.2 of the HRA Screening Report (APP-044)).

Site	197																	
Name of European Site:	Waddenzee SAC																	
Distance to East Anglia ONE North (km)	157 (windfarm site) and 176 (offshore cable corridor))																	
Marine Mammals																		
Site Features	Likely effect(s) of East Anglia ONE North																	
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination					
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D			
Harbour porpoise *Phocoena phocoena*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)			
Grey seal *Halichoerus grypus*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)			
Harbour seal *Phoca vitulina*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)			
Benthic Habitats																		
Site Features	Permanent loss			Temporary physical disturbance			Smothering due to increased suspended sediment			Re- mobilisation of contaminate d sediments			Underwater noise and vibration			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Sandbanks which are slightly covered by sea water all the time	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)		N (b)	N (b)		N (b)	N (b)	N (b)	N (b)
Estuaries	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)		N (b)	N (b)		N (b)	N (b)	N (b)	N (b)
Mudflats and sandflats not covered by seawater at low tide	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)		N (b)	N (b)		N (b)	N (b)	N (b)	N (b)

Site	**197**
Name of European Site:	**Waddenzee SAC**
Distance to East Anglia ONE North (km)	**157 (windfarm site) and 176 (offshore cable corridor))**

a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 218 and 219 for harbour seal, paragraphs 189 and 190 for grey seal and paragraphs 167 and 168 for harbour porpoise, of the HRA Screening Report (APP-044)).

b) As it has been agreed through the scoping and Evidence Plan Process (EPP) (see Appendix 9.1 (APP-458))that transboundary effects are scoped out for EIA (given the distance to sites in other Members States jurisdictions) these have also been screened out from consideration for HRA purposes.

Site	**198**
Name of European Site:	**West Westray SPA**
Distance to East Anglia ONE North (km)	**829**

Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Breeding seabird assemblage including as named features kittiwake, Arctic tern, fulmar, razorbill, Arctic skua, guillemot		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (b)	N (b)	N (b)

a) West Westray SPA is beyond maximum foraging range of designated seabird species so has no breeding season connectivity. Proportions of these populations migrating through the East Anglia ONE North site are likely to be very small relative to BDMPS (see Table 8.2 of the HRA Screening Report (APP-044).

b) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at West Westray SPA (see Table 8.2 of the HRA Screening Report (APP-044).

Site	**199**
Name of European Site:	**Westerschelde & Saeftinghe SAC**
Distance to East Anglia ONE North (km)	**108 (windfarm site) and 120 (offshore cable corridor)**

Site Features	Likely effect(s) of East Anglia ONE North																				
	Permanent habitat loss			Temporary physical disturbance			Smothering due to increased suspended sediment			Re- mobilisation of contaminated sediments			Underwater noise and vibration			Electromagnetic fields (EMF)			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
River lamprey	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)
Twaite Shad	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)

a) It was agreed as part of the East Anglia ONE North Scoping and Evidence Plan Process (EPP) (see Appendix 10.1 (APP-462)that transboundary impacts on fish would be scoped out of the EIA. We have therefore screened them out from consideration in the HRA.

Site	200														
Name of European Site:	**Winterton – Horsey Dunes SAC**														
Distance to East Anglia ONE North (km)	**60 (cable corridor)**														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Grey seal *Halichoerus grypus*	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (a)		N (a)	N (a)	N (a)	N (a)

a) There is no potential for any direct disturbance as a result of activities within the East Anglia ONE North windfarm site due to the distance between the site and the closest point onshore (36km). There is also no potential for any direct disturbance as a result of activities within the East Anglia ONE North offshore cable corridor due to the distance between the nearest major haul-out site at Winterton-Horsey and the cable landfall at Sizewell, which is located over 60km along the coast (Table 7.3 of the HRA Screening Report (APP-044)).

Site	201														
Name of European Site:	Yell Sound Coast SAC														
Distance to East Anglia ONE North (km)	911 (windfarm site)														
Site Features	Likely effect(s) of East Anglia ONE North														
	Underwater noise			Vessel Interactions			Indirect effects on prey			Changes to water quality			In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D	C	O	D
Harbour Seal *Phoca vitulina*	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)	N(a)		N(a)	N(a)	N(a)	N(a)
a) The distance between the potential impact range of East Anglia ONE North and the extent of any effect on individuals from this site would result in no potential for LSE (see paragraphs 218 and 219 and Table 7.3 of the HRA Screening Report (APP-044)).															

Site	**202**
Name of European Site:	**Ythan Estuary, Sands of Forvie and Meikle Loch SPA**
Distance to East Anglia ONE North (km)	**611**

Site Features	Likely effect(s) of East Anglia ONE North											
	Collision mortality			Displacement/Disturbance			Barrier Effect			Cumulative/In-combination		
	C	O	D	C	O	D	C	O	D	C	O	D
Wintering and passage waterbird assemblage including as named features lapwing, eider, pink-footed goose, redshank		N (a)		N (a)	N (a)	N (a)	N (a)	N (a)	N (a)	N (c)	N (c)	N (c)
Breeding little tern, common tern, Sandwich tern		N (b)		N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)	N (b)

a) Survey data show little or no evidence of Ythan Estuary, Sands of Forvie & Meikle Loch SPA features occurring in the East Anglia ONE North site (see section 5.1 of Appendix 12.2 (APP-470), and migrations of birds from this SPA are likely to result in negligible numbers passing through the East Anglia ONE North site (see Table 8.2 of the HRA Screening Report (APP-044)).

b) Little tern, common tern and Sandwich tern have maximum foraging ranges from colonies of 11km, 30km and 54km respectively, so there is no connectivity between the SPA and East Anglia ONE North site which are 608km apart. Furthermore, these species tend to forage in coastal waters rather than offshore. Therefore, collision risk, displacement and barrier effects can be excluded. (see Table 8.2 of the HRA Screening Report (APP-044))

c) The predicted effect attributable to East Anglia ONE North is so small that it would not significantly contribute to or alter the overall in-combination assessment for these features at Ythan Estuary, Sands of Forvie & Meikle Loch SPA (see Table 8.2 of the HRA Screening Report (APP-044)).