# **Outer Dowsing Offshore Wind**

# **Environmental Statement**

Chapter 20: Onshore Archaeology and Cultural Heritage

Volume 1, Chapters

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| Company:  |   | Outer | Dowsing Offshore Win         | d      | Asset:                                 |              | Whole A           | sset             |
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- Appendix 20.2 Onshore Archaeology and Cultural Heritage Heritage Statement



## **Acronyms & Definitions**

## Abbreviations / Acronyms

| Abbreviation / Acronym | Description   |
|------------------------|---|
| AAI                    | Area of archaeological interest                       |
| AOP                    | Areas of Potential                                    |
| BGL                    | Below ground level                                    |
| СТМР                   | Construction Traffic Management Plan                  |
| DCO                    | Development Consent Order                             |
| DBA                    | Desk Based Assessment                                 |
| DMRB                   | Design Manual for Roads and Bridges                   |
| ECC                    | Export Cable Corridor                                 |
| EIA                    | Environmental Impact Assessment                       |
| EMHERF                 | East Midlands Environment Historic Research Framework |
| EN                     | National Planning Policy Statement for Energy         |
| EPP                    | Evidence Plan Process                                 |
| ES                     | Environmental Statement                               |
| ETG                    | Expert Topic Group                                    |
| HER                    | Historic Environment Record                           |
| HS                     | Heritage Statement                                    |
| IPC                    | Infrastructure Planning Commission                    |
| LVIA                   | Landscape Visual Impact Assessment                    |
| NHLE                   | National Heritage List for England                    |
| MDS                    | Maximum Design Scenario                               |
| NPPF                   | National Planning Policy Framework                    |
| NSIP                   | Nationally Significant Infrastructure Projects        |
| ODOW                   | Outer Dowsing Offshore Wind                           |
| OnSS                   | Onshore Substation                                    |
| PAS                    | Portable Antiquity Scheme                             |
| PEIR                   | Preliminary Environmental Information Report          |
| RPG                    | Registered Park and Garden                            |
| TJB                    | Transition Joint Bay                                  |
| WSI                    | Written Scheme of Investigation                       |
| ZTV                    | Zone of Theoretical Study                             |

## Terminology

| Term                 | Definition  |  |
|----------------------|---|--|
| 400 kV cables        | High-voltage cables linking the OnSS to the NGSS.                         |  |
| 400kV cable corridor | The 400kV cable corridor is the area within which the 400kV cables        |  |
|                      | connecting the onshore substation to the NGSS will be situated.           |  |
| The Applicant        | GT R4 Ltd. The Applicant making the application for a DCO.                |  |
|                      | The Applicant is GT R4 Limited (a joint venture between Corio Generation, |  |
|                      | TotalEnergies and Gulf Energy Development (GULF)), trading as Outer       |  |
|                      | Dowsing Offshore Wind. The Project is being developed by Corio            |  |
|                      | Generation (a wholly owned Green Investment Group portfolio company),     |  |
|                      | TotalEnergies and GULF.   |  |



| Term                    | Definition   |
|-------------------------|--|
| Baseline                | The status of the environment at the time of assessment without the            |
|                         | development in place.  |
| Connection Area         | An indicative search area for the NGSS.  |
| Cumulative effects      | The combined effect of the Project acting cumulatively with the effects of     |
|                         | other developments, on the same single receptor/resource.                      |
| Cumulative impacts      | Impacts that result from changes caused by other past, present or              |
|                         | reasonably foreseeable actions together with the Project.                      |
| Development Consent     | An order made under the Planning Act 2008 granting development consent         |
| Order (DCO)             | for a Nationally Significant Infrastructure Project (NSIP).                    |
| Effect                  | Term used to express the consequence of an impact. The significance of an      |
|                         | effect is determined by correlating the magnitude of the impact with the       |
|                         | sensitivity of the receptor, in accordance with defined significance criteria. |
| EIA Directive           | European Union 2011/92/EU (as amended in 2014 by Directive                     |
|                         | 2014/52/EU).   |
| EIA Regulations         | Infrastructure Planning (Environmental Impact Assessment) Regulations          |
|                         | 2017.  |
| Environmental Impact    | A statutory process by which certain planned projects must be assessed         |
| Assessment (EIA)        | before a formal decision to proceed can be made. It involves the collection    |
|                         | and consideration of environmental information, which fulfils the              |
|                         | assessment requirements of the Environmental Impact Assessment (EIA)           |
|                         | Regulations, including the publication of an Environmental Statement (ES).     |
| Environmental statement | The suite of documents that detail the processes and results of the EIA.       |
| (ES)                    |  |
| Evidence Plan           | A voluntary process of stakeholder consultation with appropriate Expert        |
|                         | Topic Groups (ETGs) that discusses and, where possible, agrees the             |
|                         | detailed approach to the Environmental Impact Assessment (EIA) and             |
|                         | information to support Habitats Regulations Assessment (HRA) for those         |
|                         | relevant topics included in the process, undertaken during the pre-            |
|                         | application period.  |
| Export cables           | High voltage cables which transmit power from the Offshore Substations         |
|                         | (OSS) to the Onshore Substation (OnSS) via an Offshore Reactive                |
|                         | Compensation Platform (ORCP) if required, which may include one or more        |
|                         | auxiliary cables (normally fibre optic cables).                                |
| Haul Road               | The track within the onshore ECC which the construction traffic would use      |
|                         | to facilitate construction.  |
| Impact                  | An impact to the receiving environment is defined as any change to its         |
|                         | baseline condition, either adverse or beneficial.                              |
| Joint bays              | An excavation formed with a buried concrete slab at sufficient depth to        |
|                         | enable the jointing of high voltage power cables.                              |
| Landfall                | The location at the land-sea interface where the offshore export cables        |
|                         | and fibre optic cables will come ashore.                                       |
| Link boxes              | Underground metal chamber placed within a plastic and/or concrete pit          |
|                         | where the metal sheaths between adjacent export cable sections are             |
|                         | connected and earthed.   |
| Maximum Design Scenario | The project design parameters or a combination of project design               |
|                         | parameters that are likely to result in the greatest potential for change in   |
|                         | relation to each impact assessed.  |
|                         |  |
| Mitigation              | Mitigation measures are commitments made by the Project to reduce              |



| Term                      | Definition   |
|---------------------------|--|
|                           | the Project. Mitigation measures can be embedded (part of the Project        |
|                           | design) or secondarily added to reduce impacts in the case of potentially    |
|                           | significant effects.   |
| National Grid Onshore     | The National Grid substation and associated enabling works to be             |
| Substation (NGSS)         | developed by the National Grid Electricity Transmission (NGET) into which    |
|                           | the Project's 400kV Cables would connect.                                    |
| National Policy Statement | A document setting out national policy against which proposals for           |
| (NPS)                     | Nationally Significant Infrastructure Projects (NSIPs) will be assessed and  |
|                           | decided upon.  |
| Offshore Reactive         | A structure attached to the seabed by means of a foundation, with one or     |
| Compensation Platform     | more decks and a helicopter platform (including bird deterrents) housing     |
| (ORCP)                    | electrical reactors and switchgear for the purpose of the efficient transfer |
|                           | of power in the course of HVAC transmission by providing reactive            |
|                           | compensation   |
| Onshore Export Cable      | The Onshore Export Cable Corridor (Onshore ECC) is the area within which     |
| Corridor (ECC)            | the export cable running from the landfall to the onshore substation will    |
|                           | be situated.   |
| Onshore Infrastructure    | The combined name for all onshore infrastructure associated with             |
|                           | the Project from landfall to grid connection.                                |
| Onshore substation (OnSS) | The Project's onshore HVAC substation, containing electrical equipment,      |
|                           | control buildings, lightning protection masts, communications masts,         |
|                           | access, fencing and other associated equipment, structures or buildings; to  |
|                           | enable connection to the National Grid                                       |
| Outer Dowsing Offshore    | The Project.   |
| Wind (ODOW)               |  |
| Order Limits              | The area subject to the application for development consent. The limits      |
|                           | shown on the works plans within which the Project may be carried out.        |
| The Planning Inspectorate | The agency responsible for operating the planning process for Nationally     |
|                           | Significant Infrastructure Projects (NSIPs).                                 |
| Preliminary Environmental | The PEIR was written in the style of a draft Environmental Statement (ES)    |
| Information Report (PEIR) | and provided information to support and inform the statutory consultation    |
|                           | process during the pre-application phase.                                    |
| The Project               | Outer Dowsing Offshore Wind, an offshore wind generating station             |
|                           | together with associated onshore and offshore infrastructure.                |
| Project design envelope   | A description of the range of possible elements that make up the Project's   |
|                           | design options under consideration, as set out in detail in the project      |
|                           | description. This envelope is used to define the Project for Environmental   |
|                           | Impact Assessment (EIA) purposes when the exact engineering parameters       |
|                           | are not yet known. This is also often referred to as the "Rochdale           |
|                           | Envelope" approach.  |
| Receptor                  | A distinct part of the environment on which effects could occur and can be   |
|                           | the subject of specific assessments. Examples of receptors include species   |
|                           | (or groups) of animals or plants, people (often categorised further such as  |
|                           | 'residential' or those using areas for amenity or recreation), watercourses  |
|                           | etc.   |
| Study Area                | Area(s) within which environmental impact may occur – to be defined on a     |
|                           | receptor-by-receptor basis by the relevant technical specialist.             |



| Term                        | Definition  |  |
|-----------------------------|---|--|
| Transboundary impacts       | Transboundary effects arise when impacts from the development within        |  |
|                             | one European Economic Area (EEA) state affects the environment of           |  |
|                             | another EEA state(s).   |  |
| Transition Joint Bay (TJBs) | The offshore and onshore cable circuits are jointed on the landward side of |  |
|                             | the sea defences/beach in a Transition Joint Bay (TJB). The TJB is an       |  |
|                             | underground chamber constructed of reinforced concrete which provides       |  |
|                             | a secure and stable environment for the cable.                              |  |
| Trenchless techniques       | Trenchless technology is an underground construction method of              |  |
|                             | installing, repairing, and renewing underground pipes, ducts and cables     |  |
|                             | using techniques which minimize or eliminate the need for excavation.       |  |
|                             | Trenchless technologies involve methods of new pipe installation with       |  |
|                             | minimum surface and environmental disruptions. These techniques may         |  |
|                             | include Horizontal Directional Drilling (HDD), thrust boring, auger boring, |  |
|                             | and pipe ramming, which allow ducts to be installed under an obstruction    |  |
|                             | without breaking open the ground and digging a trench.                      |  |

### **Reference Documentation**

| Document Number | Title   |  |
|-----------------|---|--|
| 6.1.3           | Project Description   |  |
| 6.1.6           | Consultation  |  |
| 6.1.24          | Hydrology, Hydrogeology and Flood Risk                          |  |
| 6.1.26          | Noise and Vibration   |  |
| 6.1.27          | Traffic and Transport   |  |
| 6.1.28          | Landscape and Visual Assessment                                 |  |
| 6.3.20.1        | Onshore Archaeology and Cultural Heritage Desk-Based Assessment |  |
| 6.3.20.2        | Cultural Heritage - Heritage Statement                          |  |
| 6.3.32.1        | Cumulative Effects Assessment Approach                          |  |
| 8.9             | Outline Onshore Written Scheme of Investigation                 |  |
| 8.13            | Schedule of Mitigation  |  |



## 20 Onshore Archaeology and Cultural Heritage

#### 20.1 Introduction

- This chapter of the Environmental Statement (ES) presents the results of the Environmental Impact Assessment (EIA) for the potential impacts of Outer Dowsing Offshore Wind ("the Project") on Onshore Archaeology and Cultural Heritage. Specifically, this chapter considers the potential impact of the Project from the Landfall, along the Onshore Export Cable Corridor (ECC) and 400 kV cable corridor and the Onshore substation (OnSS) during the construction, operation and maintenance, and decommissioning phases.
- 2. GT R4 Ltd (trading as Outer Dowsing Offshore Wind), hereafter referred to as the 'Applicant', is proposing to develop the Project. The Project will include both offshore and onshore infrastructure including an offshore generating station (windfarm) located approximately 54km from the Lincolnshire coastline, export cables to landfall, onshore cables, an onshore substation, connection to the electricity transmission network, and ancillary and associated development (see Volume 1, Chapter 3: Project Description (document reference 6.1.3) for full details). This chapter is supported by and summarises the baseline information contained within a Heritage Statement (HS) and an Archaeological Desk Based Assessment (DBA). These are provided within Volume 3, Appendix 20.1: Onshore Archaeology (document reference 6.3.20.1) and Cultural Heritage Desk-Based Assessment and Volume 3, Appendix 20.2: Onshore Archaeology and Cultural Heritage Heritage Statement (document reference 6.3.202).
- 3. This chapter or the supporting appendices referenced above also reference pertinent findings within the following chapters presented in Volume 1 of the ES:
  - Chapter 24 Onshore Hydrology, Hydrogeology and Flood Risk (document reference 6.1.24);
  - Chapter 26 Noise and Vibration (document reference 6.1.26);
  - Chapter 27 Traffic and Transport (document reference 6.1.27); and
  - Chapter 28 Landscape and Visual Assessment (document reference 6.1.28).

#### 20.2 Statutory and Policy Context

- 4. The applicable legislation and planning policy is summarised as follows.
  - The Infrastructure Planning (Decisions) Regulations 2010, regulation 3;
  - National Planning Policy Framework (NPPF) (2023);
  - National Planning Policy Statement for Energy (EN-1) (2023);
  - East Lindsay Local Plan (2018); and
  - South East Lincolnshire Local Plan 2011-2036 (2019).
- 5. This is set out within Table 20.1 below.



Table 20.1 Legislation and policy context

| Legislation/policy | Key provisions                           | Section where comment addressed                   |
|--------------------|--|---|
| The                |  | The HS identifies the                             |
| Infrastructure     | (1) When deciding an application         | presence/absence of Listed Buildings              |
| Planning           | which affects a listed building or its   | and Conservation Areas within the                 |
| (Decisions)        | setting, the Secretary of State must     | Order Limits and a search area of up to           |
| Regulations        | have regard to the desirability of       | 5km. It then assesses the potential for           |
| 2010, regulation   | preserving the listed building or its    | adverse effects/harm to Listed                    |
| 3                  | setting or any features of special       | Buildings and Conservation Areas                  |
| 5                  | architectural or historic interest which | through setting change. Where                     |
|                    | it possesses.                            | necessary and possible, special regard            |
|                    |  | to the setting of a Listed Building or            |
|                    |  | attention to preserving or enhancing              |
|                    | (2) When deciding an application         | the character of a Conservation Area              |
|                    | relating to a conservation area, the     | has been referenced through                       |
|                    | Secretary of State must have regard to   | embedded design mitigation. The                   |
|                    | the desirability of preserving or        | implementation of embedded                        |
|                    | enhancing the character or               | mitigation is referenced within the               |
|                    | appearance of that area.                 | proposed planting set out within LVIA             |
|                    |  | Chapter 28 (document reference                    |
|                    |  | 6.1.28.15). The avoidance of                      |
|                    |  | construction traffic through relevant             |
|                    |  | Conservation Areas is set out within              |
|                    |  | the Outline Construction Traffic                  |
|                    |  | Management Plan (CTMP) (document reference 8.15). |
|                    | (3) When deciding an application for     | The DBA identifies the                            |
|                    | development consent which affects or     | presence/absence of Scheduled                     |
|                    | is likely to affect a scheduled          | Monuments within the Order Limits                 |
|                    | monument or its setting, the Secretary   | and has identified one Scheduled                  |
|                    | of State must have regard to the         | Monument – Abbey Hills Moated Site                |
|                    | desirability of preserving the           | (NHLE 1016044) where measures may                 |
|                    | scheduled monument or its setting.       | be required to preserve the                       |
|                    |  | monument as set out within Schedule               |
|                    |  | of Mitigation – document reference                |
|                    |  | 8.13. The HS identifies the                       |
|                    |  | presence/absence of Scheduled                     |
|                    |  | Monuments within the Order Limits                 |
|                    |  | and a search area of up to 5km. It then           |
|                    |  | assesses the potential for adverse                |
|                    |  | effects/harm through setting change.              |
| National           | In determining applications, local       | The HS provides proportionate                     |
| Planning Policy    | planning authorities should require an   | statements of significance for                    |
| Framework          | applicant to describe the significance   | potentially affected assets. This has             |
| Chapter 16         | of any heritage assets affected,         | allowed for the assessment of the                 |
| Conserving and     | including any contribution made by       |   |



| Legislation/policy | Key provisions                            | Section where comment addressed           |
|--------------------|---|---|
| Enhancing the      | their setting. The level of detail should | potential impact to assets through        |
| historic           | be proportionate to the assets'           | setting change.                           |
| environment -      | importance and no more than is            |   |
| Paragraph 200      | sufficient to understand the potential    | The DBA provides statements of            |
|                    | impact of the proposal on their           | significance for potential                |
|                    | significance. As a minimum the            | archaeological remains.                   |
|                    | relevant historic environment record      |   |
|                    | should have been consulted and the        | The DBA references the results of field   |
|                    | heritage assets assessed using            | evaluation comprising a watching          |
|                    | appropriate expertise where               | brief of site investigations and          |
|                    | necessary. Where a site on which          | targeted magnetometer geophysical         |
|                    | development is proposed includes, or      | survey and electromagnetic                |
|                    | has the potential to include, heritage    | geophysical survey.                       |
|                    | assets with archaeological interest,      |   |
|                    | local planning authorities should         | It is noted that the targeted             |
|                    | require developers to submit an           | geophysical survey has included the       |
|                    | appropriate desk-based assessment         | footprint of the Transition Joint Bays,   |
|                    | and, where necessary, a field             | the only part of the Order Limits         |
|                    | evaluation.                               | where significant impacts may have        |
|                    |   | been predicted on the basis of historic   |
|                    |   | geography and archaeological              |
|                    |   | potential but where a potential for       |
|                    |   | preservation in situ is not possible (see |
|                    |   | submission documents Figure 3.4.7         |
|                    |   | and the schedule of Mitigation -          |
|                    |   | document reference 8.13).                 |
|                    |   |   |
|                    |   | At all other locations within the Order   |
|                    |   | Limits where significant impacts could    |
|                    |   | occur (in reference to historic           |
|                    |   | geography and resulting                   |
|                    |   | archaeological potential) the             |
|                    |   | indicative onshore infrastructure as      |
|                    |   | set out in Figure 3.4.7 and the           |
|                    |   | Schedule of Mitigation (document          |
|                    |   | 8.13) provide for the preservation in     |
|                    |   | situ of remains of national importance    |
|                    |   | should it be required.                    |
|                    |   |   |
| National           | When considering the impact of a          | Paragraph 205 of the NPPF will be         |
| Planning Policy    | proposed development on the               | applied by the decision maker.            |
| Framework          | significance of a designated heritage     |   |
| Chapter 16         | asset, great weight should be given to    |   |
| Conserving and     | the asset's conservation (and the         |   |
| Enhancing the      | more important the asset, the greater     |   |



| 1                                |  |                                       |
|----------------------------------|--|---------------------------------------|
| Legislation/policy               | Key provisions                               | Section where comment addressed       |
| historic                         | the weight should be). This is               |                                       |
| environment –                    | irrespective of whether any potential        |                                       |
| Paragraph 205                    | harm amounts to substantial harm,            |                                       |
|                                  | total loss or less than substantial harm     |                                       |
|                                  | to its significance.                         |                                       |
| National                         | Any harm to, or loss of, the                 | From the findings of the HS and the   |
| Planning Policy                  | significance of a designated heritage        | DBA, it is anticipated that Paragraph |
| Framework                        | asset (from its alteration or                | 206 of the NPPF will not be engaged.  |
| Chapter 16                       | destruction, or from development             |                                       |
| Conserving and                   | within its setting), should require clear    |                                       |
| Enhancing the                    | and convincing justification.                |                                       |
| historic                         | Substantial harm to or loss of:              |                                       |
| environment -                    | a) grade II listed buildings, or grade II    |                                       |
| Paragraph 206                    | registered parks or gardens, should be       |                                       |
|                                  | exceptional;                                 |                                       |
|                                  | b) assets of the highest significance,       |                                       |
|                                  | notably scheduled monuments,                 |                                       |
|                                  | protected                                    |                                       |
|                                  | wreck sites, registered battlefields,        |                                       |
|                                  | grade I and II* listed buildings, grade I    |                                       |
|                                  | and<br>II* registered parks and gardens, and |                                       |
|                                  | World Heritage Sites, should be wholly       |                                       |
|                                  | Exceptional <sup>1</sup>                     |                                       |
| National                         | Where a proposed development will            | From the findings of the HS and the   |
| Planning Policy                  | lead to substantial harm to (or total        | DBA, it is anticipated that Paragraph |
| Framework                        | loss of significance of) a designated        | 207 of the NPPF will not be engaged.  |
| Chapter 16                       | heritage asset, local planning               |                                       |
| Conserving and                   | authorities should refuse consent,           |                                       |
| Enhancing the                    | unless it can be demonstrated that the       |                                       |
| historic                         | substantial harm or total loss is            |                                       |
| environment –                    | necessary to achieve substantial             |                                       |
| Paragraph 207                    | public benefits that outweigh that           |                                       |
| 1 414 <u>8</u> 14 <u>911</u> 207 | harm or                                      |                                       |
|                                  | loss, or all of the following apply:         |                                       |
|                                  | a) the nature of the heritage asset          |                                       |
|                                  | prevents all reasonable uses of the          |                                       |
|                                  | site; and                                    |                                       |
|                                  | b) no viable use of the heritage asset       |                                       |
|                                  | itself can be found in the medium            |                                       |
|                                  | term   |                                       |
|                                  |  |                                       |

<sup>&</sup>lt;sup>1</sup> Non-designated heritage assets of archaeological interest, which are demonstrably of equivalent significance to scheduled monuments, should be considered subject to the policies for designated heritage assets.



|                    |  | C OFFSHORE WIND   |
|--------------------|--|---|
| Legislation/policy | Key provisions                           | Section where comment addressed   |
|                    | through appropriate marketing that       |   |
|                    | will enable its conservation; and c)     |   |
|                    | conservation by grant-funding or         |   |
|                    | some form of not for profit, charitable  |   |
|                    | or public ownership is demonstrably      |   |
|                    | not possible; and d) the harm or loss is |   |
|                    | outweighed by the benefit of bringing    |   |
|                    | the site back into use.                  |   |
| National           | Where a development proposal will        | Where harm to designated heritage   |
| Planning Policy    | lead to less than substantial harm to    | assets is identified within the HS it will                                |
| Framework          | the significance of a designated         | be justified by the public benefits of                                    |
| Chapter 16         | heritage asset, this harm should be      | the Project which relate to a secure                                      |
| Conserving and     | weighed against the public benefits of   | electricity supply and the heritage                                       |
| Enhancing the      | the proposal including, where            | capital released by any archaeological                                    |
| historic           | appropriate, securing its optimum        | fieldwork.  |
| environment -      | viable use.                              | neidwork.   |
| Paragraph 208      | Viable use.                              |   |
| National           | The offect of an application on the      | Paragraph 200 will be applied by the                                      |
|                    | The effect of an application on the      | Paragraph 209 will be applied by the decision maker with reference to the |
| Planning Policy    | significance of a non-designated         |   |
| Framework          | heritage asset should be taken into      | effects identified within the ES.   |
| Chapter 16         | account in determining the               |   |
| Conserving and     | application. In weighing applications    |   |
| Enhancing the      | that directly or indirectly affect non-  |   |
| historic           | designated heritage assets, a balanced   |   |
| environment –      | judgement will be required having        |   |
| Paragraph 209      | regard to the scale of any harm or loss  |   |
|                    | and the significance of the heritage     |   |
|                    | asset                                    |   |
| National           | The applicant should undertake an        | The ES chapter, supported by the DBA                                      |
| Statement for      |  | and the HS, provide a sufficient level                                    |
| Energy – EN-1      | heritage impacts of the proposed         | of information to understand the  |
| (2023) –           | development as part of the EIA, and      | likely significant heritage impacts.                                      |
| Paragraph 5.9.9    | describe these along with how the        | Assets above, at and below ground   |
|                    | mitigation hierarchy has been applied    | have been considered and impact to  |
|                    | in the ES (see Section 4.3). This should | Historic Landscape Character has been                                     |
|                    | include consideration of heritage        | assessed. Impacts are presented in  |
|                    | assets above, at, and below the          | section 20.7.   |
|                    | surface of the ground. Consideration     |   |
|                    | will also need to be given to the        |   |
|                    | possible impacts, including              |   |
|                    | cumulative, on the wider historic        |   |
|                    | environment. The assessment should       |   |
|                    | include reference to any historic        |   |
|                    | landscape or seascape character          |   |
|                    | assessment and associated studies as     |   |
|                    |  | l   |



| Legislation/policy   | Key provisions   | Section where comment addressed  |
|--|--|--|
|  | a means of assessing impacts relevant  |  |
|  | to the proposed project.   |  |
| National<br>Statement for<br>Energy – EN-1<br>(2023) –<br>Paragraph 5.9.10 | to the proposed project.<br>As part of the ES the applicant should<br>provide a description of the<br>significance of the heritage assets<br>affected by the proposed<br>development, including any<br>contribution made by their setting.<br>The level of detail should be<br>proportionate to the importance of<br>the heritage assets and no more than<br>is sufficient to understand the<br>potential impact of the proposal on<br>their significance. As a minimum, the<br>applicant should have consulted the<br>relevant Historic Environment Record<br>(or, where the development is in<br>English or Welsh waters, Historic<br>England or Cadw) and assessed the<br>heritage assets themselves using<br>expertise where necessary according | The DBA provides statements of<br>significance for potential<br>archaeological remains.<br>The HS provides proportionate<br>statements of significance for<br>potentially affected assets. These are<br>provided in proportion to the<br>importance of assets and the level of<br>impact anticipated.  |
| National<br>Statement for<br>Energy – EN-1<br>(2023) –<br>Paragraph 5.9.11 | to the proposed development's<br>impact.<br>Where a site on which development is<br>proposed includes, or the available<br>evidence suggests it has the potential<br>to include, heritage assets with an<br>archaeological interest, the applicant<br>should carry out appropriate desk-<br>based assessment and, where such<br>desk-based research is insufficient to<br>properly assess the interest, a field<br>evaluation. Where proposed<br>development will affect the setting of<br>a heritage asset, accurate<br>representative visualisations may be<br>necessary to explain the impact.  | The DBA references the results of field<br>evaluation comprising a watching<br>brief of site investigations,<br>magnetometer geophysical survey<br>and electromagnetic geophysical<br>survey.<br>It is noted that the targeted<br>geophysical survey has included the<br>footprint of the Transition Joint Bay,<br>the only part of the Order Limits<br>where significant impacts may have<br>been predicted on the basis of historic<br>geography and archaeological<br>potential but where a potential for<br>preservation in situ is not possible (see<br>submission documents Figure 3.4.7<br>and the schedule of Mitigation -<br>document reference 8.13).<br>At all other locations within the Order<br>Limits where significant impacts could |



| Legislation/policy   | Key provisions   | Section where comment addressed<br>occur (in reference to historic<br>geography and resulting<br>archaeological potential) the<br>indicative onshore infrastructure as<br>set out in Figure 3.4.7 and the<br>Schedule of Mitigation (document<br>8.13) provide for the preservation in<br>situ of remains of national importance<br>should it be required                                     |
|--|--|---|
|  |  | Further geophysical survey and trial<br>trenching will be carried out post EIA<br>as well as post consent works set out<br>within the OWSI (document reference<br>8.9). These works will support the<br>preservation in-situ of remains of<br>national importance commitment. In<br>these circumstances the baseline<br>presented is considered adequate for<br>the determination of the DCO. |
|  |  | Visualisations of the OnSS are<br>provided and include computer<br>generated images of the proposals<br>from viewpoints relevant to heritage<br>assets, see Figures 6.2.28.17-27.   |
| National<br>Statement for<br>Energy – EN-1<br>(2023) –<br>Paragraph 5.9.12 | The applicant should ensure that the extent of the impact of the proposed development on the significance of any heritage assets affected can be adequately understood from the application and supporting documents. Studies will be required on those heritage assets affected by noise, vibration, light and indirect impacts, the extent and detail of these studies will be proportionate to the significance of the heritage asset affected. | The information provided within the<br>HS and DBA provides for an<br>understanding of which assets may<br>experience adverse impact/harm.   |
| National<br>Statement for<br>Energy – EN-1<br>(2023) –<br>Paragraph 5.9.13 | The applicant is encouraged, where<br>opportunities exist, to prepare<br>proposals which can make a positive<br>contribution to the historic<br>environment, and to consider how<br>their scheme takes account of the  | The proposals do not offer opportunities to enhance or to better reveal the significance of heritage assets.  |



| Legislation/policy | Key provisions                                    | Section where comment addressed        |
|--------------------|---|--|
|                    | significance of heritage assets                   |  |
|                    | affected. This can include, where                 |  |
|                    | possible:   |  |
|                    | <ul> <li>enhancing, through a range of</li> </ul> |  |
|                    | measures such a sensitive                         |  |
|                    |   |  |
|                    | design, the significance of                       |  |
|                    | heritage assets or setting                        |  |
|                    | affected  |  |
|                    | <ul> <li>considering where required</li> </ul>    |  |
|                    | the development of archive                        |  |
|                    | capacity which could deliver                      |  |
|                    | significant public benefits.                      |  |
|                    | <ul> <li>considering how visual or</li> </ul>     |  |
|                    | noise impacts can affect                          |  |
|                    | heritage assets, and whether                      |  |
|                    | there may be opportunities to                     |  |
|                    |   |  |
|                    | enhance access to, or                             |  |
|                    | interpretation, understanding                     |  |
|                    | and appreciation of, the                          |  |
|                    | heritage assets affected by                       |  |
|                    | the scheme.                                       |  |
| National           | Careful consideration in preparing the            | The impacts identified within this ES, |
| Statement for      | scheme will be required on whether                | and assessed in section 20.7 of this   |
| Energy – EN-1      | the impacts on the historic                       | chapter, are classified as direct,     |
| (2023) –           | environment will be direct or indirect,           | indirect, temporary or permanent.      |
| Paragraph 5.9.14   | temporary, or permanent.                          | With regard to the potential impacts   |
|                    |   | to heritage assets through setting     |
|                    |   | change, permanent impacts have         |
|                    |   | been avoided by mitigation planting.   |
|                    |   | This is set out within the HS.         |
| National           | Applicants should look for                        | The proposals do not offer             |
| Statement for      |   | opportunities to enhance or to better  |
|                    | within Conservation Areas and World               |  |
| Energy – EN-1      |   | reveal the significance of heritage    |
| (2023) –           | Heritage Sites, and within the setting            | assets.                                |
| Paragraph 5.9.15   | of heritage assets, to enhance or                 |  |
|                    | better reveal their significance.                 |  |
|                    | Proposals that preserve those                     |  |
|                    | elements of the setting that make a               |  |
|                    | positive contribution to the asset (or            |  |
|                    | which better reveal its significance)             |  |
|                    | should be treated favourably.                     |  |
| National           | Where the loss of the whole or part of            | An Outline Written Scheme of           |
| Statement for      |   | Investigation for Archaeological       |
| Energy – EN-1      | justified, the Secretary of State will            | Works (document reference 8.9) has     |
| (2023) –           | require the applicant to record and               | been prepared setting out a            |
| (2020)             | require the applicant to record and               | seen prepared setting out a            |



| Mitigation<br>Paragraphs-<br>advance<br>understanding<br>of the<br>significance of the heritage asset<br>before it is lost (wholly or in part). The<br>extent of the requirement should be<br>proportionate to the asset's<br>importance and significance and the<br>impact. The applicant should be<br>required to publish this evidence and<br>to deposit copies of the reports with<br>the relevant Historic Environmental<br>Record. They should also be required<br>to deposit the archive generated in a<br>local museum or other public<br>repository willing to receive it.framework for all WSIs to be pre-<br>in respect to archaeological field<br>OWSI would be implemented aff<br>written agreement of the<br>authority.Where appropriate, the secretary of<br>State will impose requirements on the<br>Development Consent Order to<br>ensure that the work is undertaken in<br>a timely manner, in accordance with a<br>written scheme of investigation that<br>complies with the policy in this NPS<br>and which has been agreed in writing<br>with the relevant local authority, and<br>to ensure that the completion of the<br>exercise is properly secured.Where the loss of significance of any<br>heritage asset has been justified by<br>the applicant on the merits of the new<br>development Consent Order<br>is tas should consider:Imposing a requirement in the<br>Development Consent OrderImposing a requirement in the<br>Development consent Order <t< th=""><th></th><th></th><th>C OFFSHORE WIND</th></t<> |                    |  | C OFFSHORE WIND                         |
|---|--------------------|--|---|
| Paragraphssignificance of the heritage asset<br>before it is lost (wholly or in part). The<br>extent of the requirement should be<br>proportionate to the asset's<br>importance and significance and the<br>impact. The applicant should be<br>required to publish this evidence and<br>to deposit copies of the reports with<br>the relevant Historic Environmental<br>Record. They should also be required<br>to deposit the archive generated in a<br>local museum or other public<br>repository willing to receive it.The archaeological work set out<br>the OWSI would provide for<br>recording of archaeological re<br>evelopment or during<br>commencement of the develop<br>according to the develop<br>according to the miti<br>requirements agreed with the<br>authority against the framework<br>the OWSI.Where appropriate, the Secretary of<br>State will impose requirements on the<br>Development Consent Order to<br>ensure that the work is undertaken in<br>a timely manner, in accordance with a<br>written scheme of investigation that<br>complies with the policy in this NPS<br>and which has been agreed in writing<br>with the relevant local authority, and<br>to ensure that the completion of the<br>exercise is properly secured.Where the loss of significance of<br>the aspelicant on the merits of the new<br>development Consent Order• imposing a requirement in the<br>Development Consent Order• requiring the applicant to<br>enter into an obligation.• That will prevent the loss occurring  | Legislation/policy | Key provisions                                 | Section where comment addressed         |
| <ul> <li>5.9.17-5.9.21</li> <li>before it is lost (wholly or in part). The extent of the requirement should be proportionate to the asset's importance and significance and the impact. The applicant should be required to publish this evidence and to deposit copies of the reports with the relevant Historic Environmental Record. They should also be required to deposit the archive generated in a local museum or other public repository willing to receive it.</li> <li>Where appropriate, the Secretary of State will impose requirements on the Development Consent Order to ensure that the work is undertaken in a timely manner, in accordance with a written scheme of investigation that complies with the policy in this NPS and which has been agreed in writing with the relevant local authority, and to ensure that the completion of the exercise is properly secured.</li> <li>Where the loss of significance of the asset in question, the Secretary of State should consider: <ul> <li>imposing a requirement in the Development Consent Order</li> <li>requiring the applicant to enter into an obligation.</li> </ul> </li> </ul>  | Mitigation -       | advance understanding of the                   | framework for all WSIs to be prepared   |
| <ul> <li>extent of the requirement should be proportionate to the asset's importance and significance and the impact. The applicant should be required to publish this evidence and to deposit copies of the reports with the relevant Historic Environmenta Record. They should also be required to deposit the archive generated in a local museum or other public repository willing to receive it.</li> <li>Where appropriate, the Secretary of State will impose requirements on the Development Consent Order to ensure that the work is undertaken in a timely manner, in accordance with a written scheme of investigation that complies with the policy in this NPS and which has been agreed in writing with the relevant local authority, and to ensure that the completion of the exercise is properly secured.</li> <li>Where the loss of significance of the asset in question, the Secretary of State should consider:</li> <li>imposing a requirement in the Development Consent Order</li> <li>requiring the applicant to enter into an obligation.</li> <li>That will prevent the loss occurring</li> </ul>   | Paragraphs         | significance of the heritage asset             | in respect to archaeological fieldwork. |
| <ul> <li>extent of the requirement should be proportionate to the asset's importance and significance and the impact. The applicant should be required to publish this evidence and to deposit copies of the reports with the relevant Historic Environmental Record. They should also be required to deposit the archive generated in a local museum or other public repository willing to receive it.</li> <li>Where appropriate, the Secretary of State will impose requirements on the Development Consent Order to ensure that the work is undertaken in a timely manner, in accordance with a written scheme of investigation that complies with the relevant local authority, and to ensure that the completion of the exercise is properly secured.</li> <li>Where the loss of significance of any heritage asset has been justified by the applicant on the merits of the new development Consent Order</li> <li>imposing a requirement in the Development Consent Order</li> <li>imposing a requirement in the Development Consent Order</li> <li>menter into an obligation.</li> <li>That will prevent the loss occurring</li> </ul>   | 5.9.17-5.9.21      | before it is lost (wholly or in part). The     | All WSIs prepared in reference to the   |
| <ul> <li>proportionate to the asset's importance and significance and the impact. The applicant should be required to publish this evidence and to deposit copies of the reports with the relevant Historic Environmental Record. They should also be required to deposit the archive generated in a local museum or other public repository willing to receive it.</li> <li>Where appropriate, the Secretary of State will impose requirements on the Development Consent Order to ensure that the work is undertaken in a timely manner, in accordance with a written scheme of investigation that complies with the policy in this NPS and which has been agreed in writing with the relevant local authority, and to ensure that the completion of the exercise is properly secured.</li> <li>Where the loss of significance of any heritage asset has been justified by the applicant on the merits of the new development and the significance of the asset in question, the Secretary of State should consider:</li> <li>imposing a requirement in the Development Consent Order</li> <li>requiring the applicant to enter into an obligation.</li> <li>That will prevent the loss occurring</li> </ul>  |                    | · · · · · · · · · · · · · · · · · · ·          |   |
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| <ul> <li>to deposit copies of the reports with<br/>the relevant Historic Environmental<br/>Record. They should also be required<br/>to deposit the archive generated in a<br/>local museum or other public<br/>repository willing to receive it.</li> <li>Where appropriate, the Secretary of<br/>State will impose requirements on the<br/>Development Consent Order to<br/>ensure that the work is undertaken in<br/>a timely manner, in accordance with a<br/>written scheme of investigation that<br/>complies with the policy in this NPS<br/>and which has been agreed in writing<br/>with the relevant local authority, and<br/>to ensure that the completion of the<br/>exercise is properly secured.</li> <li>Where the loss of significance of any<br/>heritage asset has been justified by<br/>the applicant on the merits of the new<br/>development and the significance of<br/>the asset in question, the Secretary of<br/>State should consider: <ul> <li>imposing a requirement in the<br/>Development Consent Order</li> <li>imposing a requirement in the<br/>Development Consent Order</li> <li>imposing a requirement in the<br/>Development consent Order</li> <li>That will prevent the loss occurring</li> </ul></li></ul>   |                    |  | The archaeological work set out within  |
| <ul> <li>the relevant Historic Environmental<br/>Record. They should also be required<br/>to deposit the archive generated in a<br/>local museum or other public<br/>repository willing to receive it.</li> <li>Where appropriate, the Secretary of<br/>State will impose requirements on the<br/>Development Consent Order to<br/>ensure that the work is undertaken in<br/>a timely manner, in accordance with a<br/>written scheme of investigation that<br/>complies with the policy in this NPS<br/>and which has been agreed in writing<br/>with the relevant local authority, and<br/>to ensure that the completion of the<br/>exercise is properly secured.</li> <li>Where the loss of significance of any<br/>heritage asset has been justified by<br/>the applicant on the merits of the new<br/>development and the significance of<br/>the asset in question, the Secretary of<br/>State should consider:</li> <li>imposing a requirement in the<br/>Development Consent Order<br/>requiring the applicant to<br/>enter into an obligation.</li> <li>That will prevent the loss occurring</li> </ul>  |                    |  | -                                       |
| Record. They should also be required<br>to deposit the archive generated in a<br>local museum or other public<br>repository willing to receive it.prior to the commencement of<br>development or during<br>commencement of the develop<br>according to the miti<br>requirements agreed with the<br>authority against the framewore<br>the OWSI.Where appropriate, the Secretary of<br>State will impose requirements on the<br>Development Consent Order to<br>ensure that the work is undertaken in<br>a timely manner, in accordance with a<br>written scheme of investigation that<br>complies with the policy in this NPS<br>and which has been agreed in writing<br>with the relevant local authority, and<br>to ensure that the completion of the<br>exercise is properly secured.Where the loss of significance of any<br>heritage asset has been justified by<br>the applicant on the merits of the new<br>development and the significance of<br>the asset in question, the Secretary of<br>State should consider:Imposing a requirement in the<br>Development Consent OrderImposing a requirement in the<br>Development consent OrderImposing a requirement in the<br>Development into an obligation.That will prevent the loss occurring   |                    |  |   |
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| repository willing to receive it.<br>Where appropriate, the Secretary of<br>State will impose requirements on the<br>Development Consent Order to<br>ensure that the work is undertaken in<br>a timely manner, in accordance with a<br>written scheme of investigation that<br>complies with the policy in this NPS<br>and which has been agreed in writing<br>with the relevant local authority, and<br>to ensure that the completion of the<br>exercise is properly secured.<br>Where the loss of significance of any<br>heritage asset has been justified by<br>the applicant on the merits of the new<br>development and the significance of<br>the asset in question, the Secretary of<br>State should consider:<br>imposing a requirement in the<br>Development Consent Order<br>requiring the applicant to<br>enter into an obligation.<br>That will prevent the loss occurring  |                    |  |   |
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| State will impose requirements on the<br>Development Consent Order to<br>ensure that the work is undertaken in<br>a timely manner, in accordance with a<br>written scheme of investigation that<br>complies with the policy in this NPS<br>and which has been agreed in writing<br>with the relevant local authority, and<br>to ensure that the completion of the<br>exercise is properly secured.the OWSI.Where the loss of significance of any<br>heritage asset has been justified by<br>the applicant on the merits of the new<br>development and the significance of<br>the asset in question, the Secretary of<br>State should consider:imposing a requirement in the<br>Development Consent Order•imposing a requirement to<br>enter into an obligation.That will prevent the loss occurring   |                    |  | requirements agreed with the local      |
| <ul> <li>Development Consent Order to<br/>ensure that the work is undertaken in<br/>a timely manner, in accordance with a<br/>written scheme of investigation that<br/>complies with the policy in this NPS<br/>and which has been agreed in writing<br/>with the relevant local authority, and<br/>to ensure that the completion of the<br/>exercise is properly secured.</li> <li>Where the loss of significance of any<br/>heritage asset has been justified by<br/>the applicant on the merits of the new<br/>development and the significance of<br/>the asset in question, the Secretary of<br/>State should consider: <ul> <li>imposing a requirement in the<br/>Development Consent Order</li> <li>requiring the applicant to<br/>enter into an obligation.</li> </ul> </li> <li>That will prevent the loss occurring</li> </ul>  |                    |  | authority against the framework of      |
| <ul> <li>ensure that the work is undertaken in a timely manner, in accordance with a written scheme of investigation that complies with the policy in this NPS and which has been agreed in writing with the relevant local authority, and to ensure that the completion of the exercise is properly secured.</li> <li>Where the loss of significance of any heritage asset has been justified by the applicant on the merits of the new development and the significance of the asset in question, the Secretary of State should consider: <ul> <li>imposing a requirement in the Development Consent Order</li> <li>requiring the applicant to enter into an obligation.</li> </ul> </li> <li>That will prevent the loss occurring</li> </ul>   |                    |  | the OWSI.                               |
| a timely manner, in accordance with a<br>written scheme of investigation that<br>complies with the policy in this NPS<br>and which has been agreed in writing<br>with the relevant local authority, and<br>to ensure that the completion of the<br>exercise is properly secured.<br>Where the loss of significance of any<br>heritage asset has been justified by<br>the applicant on the merits of the new<br>development and the significance of<br>the asset in question, the Secretary of<br>State should consider:<br>imposing a requirement in the<br>Development Consent Order<br>requiring the applicant to<br>enter into an obligation.<br>That will prevent the loss occurring  |                    | Development Consent Order to                   |   |
| <ul> <li>written scheme of investigation that<br/>complies with the policy in this NPS<br/>and which has been agreed in writing<br/>with the relevant local authority, and<br/>to ensure that the completion of the<br/>exercise is properly secured.</li> <li>Where the loss of significance of any<br/>heritage asset has been justified by<br/>the applicant on the merits of the new<br/>development and the significance of<br/>the asset in question, the Secretary of<br/>State should consider: <ul> <li>imposing a requirement in the<br/>Development Consent Order</li> <li>requiring the applicant to<br/>enter into an obligation.</li> </ul> </li> <li>That will prevent the loss occurring</li> </ul>   |                    | ensure that the work is undertaken in          |   |
| <ul> <li>complies with the policy in this NPS<br/>and which has been agreed in writing<br/>with the relevant local authority, and<br/>to ensure that the completion of the<br/>exercise is properly secured.</li> <li>Where the loss of significance of any<br/>heritage asset has been justified by<br/>the applicant on the merits of the new<br/>development and the significance of<br/>the asset in question, the Secretary of<br/>State should consider: <ul> <li>imposing a requirement in the<br/>Development Consent Order</li> <li>requiring the applicant to<br/>enter into an obligation.</li> </ul> </li> <li>That will prevent the loss occurring</li> </ul>  |                    | a timely manner, in accordance with a          |   |
| <ul> <li>and which has been agreed in writing with the relevant local authority, and to ensure that the completion of the exercise is properly secured.</li> <li>Where the loss of significance of any heritage asset has been justified by the applicant on the merits of the new development and the significance of the asset in question, the Secretary of State should consider: <ul> <li>imposing a requirement in the Development Consent Order</li> <li>requiring the applicant to enter into an obligation.</li> </ul> </li> <li>That will prevent the loss occurring</li> </ul>   |                    | written scheme of investigation that           |   |
| <ul> <li>with the relevant local authority, and to ensure that the completion of the exercise is properly secured.</li> <li>Where the loss of significance of any heritage asset has been justified by the applicant on the merits of the new development and the significance of the asset in question, the Secretary of State should consider: <ul> <li>imposing a requirement in the Development Consent Order</li> <li>requiring the applicant to enter into an obligation.</li> </ul> </li> <li>That will prevent the loss occurring</li> </ul>  |                    | complies with the policy in this NPS           |   |
| <ul> <li>with the relevant local authority, and to ensure that the completion of the exercise is properly secured.</li> <li>Where the loss of significance of any heritage asset has been justified by the applicant on the merits of the new development and the significance of the asset in question, the Secretary of State should consider: <ul> <li>imposing a requirement in the Development Consent Order</li> <li>requiring the applicant to enter into an obligation.</li> </ul> </li> <li>That will prevent the loss occurring</li> </ul>  |                    | and which has been agreed in writing           |   |
| to ensure that the completion of the<br>exercise is properly secured.<br>Where the loss of significance of any<br>heritage asset has been justified by<br>the applicant on the merits of the new<br>development and the significance of<br>the asset in question, the Secretary of<br>State should consider:<br>imposing a requirement in the<br>Development Consent Order<br>requiring the applicant to<br>enter into an obligation.<br>That will prevent the loss occurring   |                    | • •  |   |
| <ul> <li>exercise is properly secured.</li> <li>Where the loss of significance of any heritage asset has been justified by the applicant on the merits of the new development and the significance of the asset in question, the Secretary of State should consider: <ul> <li>imposing a requirement in the Development Consent Order</li> <li>requiring the applicant to enter into an obligation.</li> </ul> </li> <li>That will prevent the loss occurring</li> </ul>  |                    |  |   |
| <ul> <li>Where the loss of significance of any heritage asset has been justified by the applicant on the merits of the new development and the significance of the asset in question, the Secretary of State should consider:</li> <li>imposing a requirement in the Development Consent Order</li> <li>requiring the applicant to enter into an obligation.</li> </ul>   |                    | -  |   |
| <ul> <li>heritage asset has been justified by<br/>the applicant on the merits of the new<br/>development and the significance of<br/>the asset in question, the Secretary of<br/>State should consider: <ul> <li>imposing a requirement in the<br/>Development Consent Order</li> <li>requiring the applicant to<br/>enter into an obligation.</li> </ul> </li> <li>That will prevent the loss occurring</li> </ul>   |                    |  |   |
| <ul> <li>heritage asset has been justified by<br/>the applicant on the merits of the new<br/>development and the significance of<br/>the asset in question, the Secretary of<br/>State should consider:</li> <li>imposing a requirement in the<br/>Development Consent Order</li> <li>requiring the applicant to<br/>enter into an obligation.</li> </ul>   |                    | Where the loss of significance of any          |   |
| <ul> <li>the applicant on the merits of the new development and the significance of the asset in question, the Secretary of State should consider: <ul> <li>imposing a requirement in the Development Consent Order</li> <li>requiring the applicant to enter into an obligation.</li> </ul> </li> <li>That will prevent the loss occurring</li> </ul>  |                    | с — ,  |   |
| <ul> <li>development and the significance of the asset in question, the Secretary of State should consider:</li> <li>imposing a requirement in the Development Consent Order</li> <li>requiring the applicant to enter into an obligation.</li> <li>That will prevent the loss occurring</li> </ul>   |                    |  |   |
| <ul> <li>the asset in question, the Secretary of State should consider:</li> <li>imposing a requirement in the Development Consent Order</li> <li>requiring the applicant to enter into an obligation.</li> <li>That will prevent the loss occurring</li> </ul>   |                    |  |   |
| <ul> <li>State should consider:</li> <li>imposing a requirement in the Development Consent Order</li> <li>requiring the applicant to enter into an obligation.</li> <li>That will prevent the loss occurring</li> </ul>   |                    |  |   |
| <ul> <li>imposing a requirement in the<br/>Development Consent Order</li> <li>requiring the applicant to<br/>enter into an obligation.</li> <li>That will prevent the loss occurring</li> </ul>   |                    |  |   |
| Development Consent Order <ul> <li>requiring the applicant to enter into an obligation.</li> </ul> That will prevent the loss occurring   |                    |  |   |
| <ul> <li>requiring the applicant to<br/>enter into an obligation.</li> <li>That will prevent the loss occurring</li> </ul>  |                    |  |   |
| enter into an obligation.<br>That will prevent the loss occurring   |                    | Development Consent Order                      |   |
| That will prevent the loss occurring  |                    | <ul> <li>requiring the applicant to</li> </ul> |   |
|   |                    | enter into an obligation.                      |   |
|   |                    |  |   |
|   |                    | That will prevent the loss occurring           |   |
| until the relevant part of the  |                    | until the relevant part of the                 |   |
| development has commenced, or it is   |                    | development has commenced, or it is            |   |
| reasonably certain that the relevant  |                    | reasonably certain that the relevant           |   |
| part of the development is to proceed.  |                    | -  |   |
|   |                    |  |   |



|                    |  | OFFSHORE WIND                            |
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| Legislation/policy | Key provisions                           | Section where comment addressed          |
|                    | Where there is a high probability        |  |
|                    | (based on an adequate assessment)        |  |
|                    | that a development site may include,     |  |
|                    | as yet undiscovered heritage assets      |  |
|                    | with archaeological interest, the        |  |
|                    | Secretary of State will consider         |  |
|                    | requirements to                          |  |
|                    |  |  |
|                    | ensure appropriate procedures are in     |  |
|                    | place for the identification and         |  |
|                    | treatment of such assets discovered      |  |
|                    | during construction.                     |  |
| National           | When considering the impact of a         | Paragraph 5.9.27 will be applied by      |
| Statement for      |  | the decision maker with reference to     |
| Energy – EN-1      | significance of a designated heritage    | the effects identified within the ES.    |
| (2023) –           | asset, the Secretary of State should     |  |
| Paragraph 5.9.27   | give great weight to the asset's         |  |
|                    | conservation. The more important the     |  |
|                    | asset, the greater the weight should     |  |
|                    | be. This is irrespective of whether any  |  |
|                    | potential harm amounts to substantial    |  |
|                    | harm, total loss, or less than           |  |
|                    | substantial harm to its significance.    |  |
| National           | The Secretary of State should give       | Paragraph 5.9.28 will be applied by      |
| Statement for      |  | the decision maker with reference to     |
| Energy – EN-1      | to the desirability of preserving all    | the effects identified within the ES and |
| (2023) –           | heritage assets. Any harm or loss of     | the public benefits around an            |
| Paragraph 5.9.28   | significance of a designated heritage    | electricity supply that the proposals    |
| 1 al agraph 5.5.20 | asset (from its alteration or            | offer.                                   |
|                    | destruction, or from development         | oner.                                    |
|                    | within its setting) should require clear |  |
|                    | <i>c,</i>                                |  |
| Netieral           | and convincing justification             | From the findings of the UC in i         |
| National           | Substantial harm to or loss of           | From the findings of the HS it is        |
| Statement for      | 0  | anticipated that Paragraph 5.9.29 will   |
| Energy – EN-1      | Building or a grade II Registered Park   | not be engaged.                          |
| (2023) –           | or Garden should be exceptional.         |  |
| Paragraph 5.9.29   |  |  |
| National           | Substantial harm to or loss of           | From the findings of the HS and DBA,     |
| Statement for      | significance of assets of the highest    | it is anticipated that Paragraph 5.9.30  |
| Energy – EN-1      | significance, including Scheduled        | will not be engaged.                     |
| (2023) –           | Monuments; Protected Wreck Sites;        |  |
| Paragraph 5.9.30   | Registered Battlefields; grade I and II* |  |
|                    | Listed Buildings; grade I and II*        |  |
|                    | Registered Parks and Gardens; and        |  |
|                    | World Heritage Sites, should be wholly   |  |
|                    | exceptional                              |  |
|                    |  | <u> </u>                                 |



|                    |   | OFFSHORE WIND                               |
|--------------------|---|---|
| Legislation/policy | Key provisions                                    | Section where comment addressed             |
| National           | Where the proposed development                    | From the findings of the HS, it is          |
| Statement for      | will lead to substantial harm to (or              | anticipated that Paragraph 5.9.31 will      |
| Energy – EN-1      | total loss of significance of) a                  | not be engaged.                             |
| (2023) –           | designated heritage asset the                     | 6.6   |
| Paragraph 5.9.31   | Secretary of State should refuse                  |   |
| 1 01 081 010101    | consent unless it can be demonstrated             |   |
|                    | that the substantial harm to, or loss of,         |   |
|                    | significance is necessary to achieve              |   |
|                    | substantial public benefits that                  |   |
|                    |   |   |
|                    | outweigh that harm or loss, or all the            |   |
|                    | following apply:                                  |   |
|                    | the nature of the heritage                        |   |
|                    | asset prevents all reasonable                     |   |
|                    | uses of the site.                                 |   |
|                    | no viable use of the heritage                     |   |
|                    | asset itself can be found in the                  |   |
|                    | medium term through                               |   |
|                    | appropriate marketing that                        |   |
|                    | will enable its conservation.                     |   |
|                    | <ul> <li>conservation by grant-funding</li> </ul> |   |
|                    | or some form of not for profit,                   |   |
|                    | charitable or public ownership                    |   |
|                    | is demonstrably not possible.                     |   |
|                    |   |   |
|                    | the harm or loss is                               |   |
|                    | outweighed by the benefit of                      |   |
|                    | bringing the site back into use.                  |   |
| National           | Where the proposed development                    | Where harm to designated heritage           |
| Statement for      | will lead to less than substantial harm           | assets is identified this will be justified |
| Energy – EN-1      | to the significance of the designated             | by the public benefits which relate to      |
| (2023) –           | heritage asset, this harm should be               | a secure electricity supply and the         |
| Paragraph 5.9.32   | weighed against the public benefits of            | heritage capital that would be              |
|                    | the proposal, including, where                    | released by any archaeological              |
|                    | appropriate securing                              | fieldwork.                                  |
|                    | its optimum viable use                            |   |
| National           | In weighing applications that directly            | Paragraph 5.9.33 will be applied by         |
| Statement for      | or indirectly affect non-designated               | the decision maker with reference to        |
| Energy – EN-1      | heritage assets, a balanced judgement             | the effects identified within the ES.       |
| (2023) –           | will be required having regard to the             | The Inspector is referred to the public     |
| Paragraph 5.9.33   | scale of any harm or loss and the                 | benefits of a secure electricity supply     |
|                    | significance of the heritage asset.               | and the public benefits of the release      |
|                    | Significance of the heritage asset.               | of heritage capital through                 |
|                    |   | archaeological fieldwork.                   |
|                    |   |   |
| East Lindson       | The Council will support proposed                 | The DRA and US (Malume 2                    |
| East Lindsey       |   | The DBA and HS (Volume 3,                   |
| Local Plan Core    | that secure the continued protection              | Appendices 20.1 and 20.2) have              |



|                    |   | OFFSHORE WIND                            |
|--------------------|---|--|
| Legislation/policy | Key provisions                                    | Section where comment addressed          |
| Strategy –         | and enhancement of heritage assets in             | sought to understand the significance    |
| Strategic Policy   | East Lindsey, contribute to the wider             | of heritage assets potentially affected  |
| 11 – Historic      | vitality and regeneration of the areas            | by the proposals so that the level of    |
| Environment        | in which they are located and                     | any adverse harm can be understood       |
|                    | reinforce a strong sense of place.                | and mitigated where appropriate.         |
|                    | Proposals will be supported where                 | Harm to Scheduled Monuments and          |
|                    | they:   | Listed Buildings through setting         |
|                    | <ul> <li>Preserve or enhance heritage</li> </ul>  | change has been identified but this is   |
|                    | assets and their setting;                         | not significant and will be mitigated by |
|                    | <ul> <li>Preserve or enhance the</li> </ul>       | planting set out within Figure           |
|                    | special character, appearance                     | 6.2.28.15. No harm to Conservation       |
|                    | and setting of the District's                     | Areas is predicted.                      |
|                    | C C   |  |
|                    | Conservation Areas. Proposals                     |  |
|                    | should take into account the                      |  |
|                    | significance of Conservation                      |  |
|                    | Areas including spaces, street                    |  |
|                    | patterns, views vistas and                        |  |
|                    | natural features, and reflect                     |  |
|                    | this in their layout, scale,                      |  |
|                    | design, detailing, and                            |  |
|                    | materials;  |  |
|                    | <ul> <li>Have particular regard to the</li> </ul> |  |
|                    | special architectural or                          |  |
|                    | historic interest and setting of                  |  |
|                    | the District's Listed Buildings.                  |  |
|                    | Proposals will be expected to                     |  |
|                    | demonstrate that they are                         |  |
|                    | compatible with the                               |  |
|                    | significance of a listed building                 |  |
|                    | including fabric, form, setting                   |  |
|                    | and use;  |  |
|                    | Do not harm the site or                           |  |
|                    | setting of a Scheduled                            |  |
|                    | Monument; any unscheduled                         |  |
|                    | nationally important or locally                   |  |
|                    | significant archaeological site.                  |  |
|                    | Appropriate evaluation,                           |  |
|                    | recording or preservation in                      |  |
|                    | situ is required and should be                    |  |
|                    | undertaken by a suitably                          |  |
|                    | qualified party;                                  |  |
|                    | <ul> <li>Preserve or enhance the</li> </ul>       |  |
|                    |   |  |
|                    | quality and experience of the                     |  |
|                    | historic landscapes and                           | <u> </u>                                 |



| Logialation ( li  | Kauarautaiana  | Continuo vultore contracte del contract  |
|---|--|--|
| Legislation/policy  | <ul> <li>Key provisions</li> <li>woodland of the District and their setting;</li> <li>Are compatible with the significance of non-designated heritage assets in East Lindsey;</li> <li>Do not have a harmful cumulative impact on heritage assets;</li> <li>Promote a sustainable and viable use which is compatible with the fabric, interior, surroundings and setting of the heritage asset; and</li> <li>Conserve heritage assets identified as being at risk, ensuring the optimum viable use of an asset is secured where it is consistent with the significance of the heritage asset. This may include redevelopment or enabling development, particularly where a use would benefit the wider.</li> </ul> | Section where comment addressed  |
| South East<br>Lincolnshire<br>Local Plan 2011-<br>2036 – Policy 29<br>The Historic<br>Environment | <ul> <li>Distinctive elements of the Southeast<br/>Lincolnshire historic environment will<br/>be conserved and, where appropriate,<br/>enhanced. Opportunities to identify a<br/>heritage asset's contribution to the<br/>economy, tourism, education and the<br/>local community will be utilised<br/>including:</li> <li>The historic archaeological<br/>and drainage landscape of the<br/>Fens;</li> <li>The distinctive character of<br/>South East Lincolnshire<br/>market towns and villages;</li> <li>The dominance within the<br/>landscape of church towers,<br/>spires and historic windmills.</li> <li>To respect the historical legacy, varied<br/>character and appearance of South</li> </ul>        | The supporting technical appendices<br>set out the significance of assets<br>potentially affected (Volume 3,<br>Appendices 20.1 and 20.2). Appendix<br>20.2, the HS, sets out the contribution<br>that setting makes towards the<br>significance of assets and sets out<br>potential impacts through setting<br>change. No significant impacts are<br>identified.<br>The DBA references the results of field<br>evaluation comprising a watching<br>brief of site investigations,<br>magnetometer geophysical survey<br>and electromagnetic geophysical<br>survey. In light of the indicative<br>onshore infrastructure as set out in<br>Figure 3.4.7, a commitment that |



#### Legislation/policy Key provisions

Section where comment addressed

East Lincolnshire's historic environment, development proposals will conserve and enhance the character appearance and of and non-designated designated heritage assets, such as important known archaeology or that found during development, historic buildings, conservation areas, scheduled monuments, street patterns, streetscapes, landscapes, parks (including Registered Parks and Gardens), river frontages, structures and their settings through high-quality sensitive design.

#### A. Listed Buildings

Proposals that affect the setting of a Listed Building will be supported where they preserve or better reveal the significance of the Listed Building.

#### **B.** Conservation Areas

Proposals within, affecting the setting of, or affecting views into or out of, a Conservation Area should preserve (and enhance or reinforce, as appropriate) features that contribute positively to the area's character, appearance and setting. Proposals should:

Assess, and mitigate against, any negative impact the proposal might have on the townscape, roofscape, skyline and landscape;

C. Archaeology and Scheduled Monuments

Proposals that affect archaeological remains, whether known or potential, designated or non-designated, should take every reasonable step to protect and, where possible, enhance their significance.

preservation in situ could be accommodated for works along the onshore ECC between the TJB and the OnSS (Schedule of Mitigation document reference 8.13) and the findings of the DBA and this Chapter, further fieldwork is not considered necessary at EIA. Post EIA works to support the preservation in-situ commitment will include further geophysical survey and trial trenching and post consent works mitigation is set out within the OWSI (document reference 8.9). In these circumstances the baseline presented is considered adequate for the determination of the DCO. All impacts should be balanced against the public benefit of the scheme which contributes towards a secure electricity supply.



|                    |  | OFFSHORE WIND                   |
|--------------------|--|---------------------------------|
| Legislation/policy | Key provisions                           | Section where comment addressed |
|                    | Planning applications for such           |                                 |
|                    | development should be accompanied        |                                 |
|                    |  |                                 |
|                    | by an appropriate and proportionate      |                                 |
|                    | assessment to understand the             |                                 |
|                    | potential for and significance of        |                                 |
|                    | remains, and the impact of               |                                 |
|                    | development upon them.                   |                                 |
|                    |  |                                 |
|                    | If initial assessment does not provide   |                                 |
|                    | -  |                                 |
|                    | sufficient information, developers will  |                                 |
|                    | be required to undertake field           |                                 |
|                    | evaluation in advance of                 |                                 |
|                    | determination of the application. This   |                                 |
|                    | may include a range of techniques for    |                                 |
|                    | both intrusive and non-intrusive         |                                 |
|                    |  |                                 |
|                    | evaluation, as appropriate to the site.  |                                 |
|                    | Wherever possible and appropriate,       |                                 |
|                    | mitigation strategies should ensure      |                                 |
|                    | the preservation of archaeological       |                                 |
|                    | remains in-situ. Where this is either    |                                 |
|                    | not possible or not desirable,           |                                 |
|                    | provision must be made for               |                                 |
|                    | •  |                                 |
|                    | preservation by record according to      |                                 |
|                    | an agreed written scheme of              |                                 |
|                    | investigation submitted by the           |                                 |
|                    | developer, undertaken by a suitably      |                                 |
|                    | qualified person, and approved by the    |                                 |
|                    | Local Planning Authority.                |                                 |
|                    | Any work undertaken as part of the       |                                 |
|                    |  |                                 |
|                    | planning process must be                 |                                 |
|                    | appropriately archived in a way          |                                 |
|                    | agreed with the Local Planning           |                                 |
|                    | Authority.                               |                                 |
|                    |  |                                 |
|                    | D. Registered Parks and Gardens          |                                 |
|                    | Proposals that cause substantial harm    |                                 |
|                    |  |                                 |
|                    | to a Registered Park or Garden, or its   |                                 |
|                    | setting will not be permitted, unless in |                                 |
|                    | an exceptional case, where a clear and   |                                 |
|                    | convincing justification is made in line |                                 |
|                    | with national policy.                    |                                 |
|                    |  |                                 |
|                    | F. Development Proposals                 |                                 |
|                    |  |                                 |
|                    | Where a development proposal would       |                                 |
|                    | affect the significance of a heritage    |                                 |
|                    |  |                                 |



| Legislation/policy       Key provisions       Section where comment addresse         asset (whether designated or non-<br>designated), including any<br>contribution made to its setting, it<br>should be informed by proportionate<br>historic environment assessments and<br>evaluations (such as heritage impact<br>assessments, desk-based appraisals,<br>field evaluation and historic building<br>reports) that: <ul> <li>identify all heritage assets<br/>likely to be affected by the<br/>proposal;</li> <li>explain the nature and degree<br/>of any effect on elements that<br/>contribute to their<br/>significance and<br/>demonstrating how, in order<br/>of preference, any harm will<br/>be avoided, minimised or<br/>mitigated;</li> <li>provide a clear explanation<br/>and justification for the<br/>proposal in order for the harm<br/>to be weighed against public<br/>benefits; and</li> <li>demonstrate that all<br/>reasonable efforts have been<br/>made to sustain the existing<br/>use, find new uses, or mitigate<br/>the extent of the harm to the</li> </ul> | Legislation/policy   | Key provisions                                    | Section where comment addressed |
|---|----------------------|---|---------------------------------|
| <ul> <li>designated), including any contribution made to its setting, it should be informed by proportionate historic environment assessments and evaluations (such as heritage impact assessments, desk-based appraisals, field evaluation and historic building reports) that: <ul> <li>identify all heritage assets likely to be affected by the proposal;</li> <li>explain the nature and degree of any effect on elements that contribute to their significance and demonstrating how, in order of preference, any harm will be avoided, minimised or mitigated;</li> <li>provide a clear explanation and justification for the proposal in order for the harm to be weighed against public benefits; and</li> <li>demonstrate that all reasonable efforts have been made to sustain the existing use, find new uses, or mitigate</li> </ul> </li> </ul>   | - Legislation/policy |   | Section where comment addressed |
| <ul> <li>contribution made to its setting, it<br/>should be informed by proportionate<br/>historic environment assessments and<br/>evaluations (such as heritage impact<br/>assessments, desk-based appraisals,<br/>field evaluation and historic building<br/>reports) that: <ul> <li>identify all heritage assets<br/>likely to be affected by the<br/>proposal;</li> <li>explain the nature and degree<br/>of any effect on elements that<br/>contribute to their<br/>significance and<br/>demonstrating how, in order<br/>of preference, any harm will<br/>be avoided, minimised or<br/>mitigated;</li> <li>provide a clear explanation<br/>and justification for the<br/>proposal in order for the harm<br/>to be weighed against public<br/>benefits; and</li> <li>demonstrate that all<br/>reasonable efforts have been<br/>made to sustain the existing<br/>use, find new uses, or mitigate</li> </ul> </li> </ul>  |                      |   |                                 |
| <ul> <li>should be informed by proportionate historic environment assessments and evaluations (such as heritage impact assessments, desk-based appraisals, field evaluation and historic building reports) that: <ul> <li>identify all heritage assets likely to be affected by the proposal;</li> <li>explain the nature and degree of any effect on elements that contribute to their significance and demonstrating how, in order of preference, any harm will be avoided, minimised or mitigated;</li> <li>provide a clear explanation and justification for the proposal in order for the harm to be weighed against public benefits; and</li> <li>demonstrate that all reasonable efforts have been made to sustain the existing use, find new uses, or mitigate</li> </ul> </li> </ul>   |                      |   |                                 |
| <ul> <li>evaluations (such as heritage impact assessments, desk-based appraisals, field evaluation and historic building reports) that: <ul> <li>identify all heritage assets likely to be affected by the proposal;</li> <li>explain the nature and degree of any effect on elements that contribute to their significance and demonstrating how, in order of preference, any harm will be avoided, minimised or mitigated;</li> <li>provide a clear explanation and justification for the proposal in order for the harm to be weighed against public benefits; and</li> <li>demonstrate that all reasonable efforts have been made to sustain the existing use, find new uses, or mitigate</li> </ul> </li> </ul>  |                      |   |                                 |
| <ul> <li>assessments, desk-based appraisals, field evaluation and historic building reports) that: <ul> <li>identify all heritage assets likely to be affected by the proposal;</li> <li>explain the nature and degree of any effect on elements that contribute to their significance and demonstrating how, in order of preference, any harm will be avoided, minimised or mitigated;</li> <li>provide a clear explanation and justification for the proposal in order for the harm to be weighed against public benefits; and</li> <li>demonstrate that all reasonable efforts have been made to sustain the existing use, find new uses, or mitigate</li> </ul> </li> </ul>   |                      | historic environment assessments and              |                                 |
| field evaluation and historic building<br>reports) that: <ul> <li>identify all heritage assets<br/>likely to be affected by the<br/>proposal;</li> <li>explain the nature and degree<br/>of any effect on elements that<br/>contribute to their<br/>significance and<br/>demonstrating how, in order<br/>of preference, any harm will<br/>be avoided, minimised or<br/>mitigated;</li> <li>provide a clear explanation<br/>and justification for the<br/>proposal in order for the harm<br/>to be weighed against public<br/>benefits; and</li> <li>demonstrate that all<br/>reasonable efforts have been<br/>made to sustain the existing<br/>use, find new uses, or mitigate</li> </ul>   |                      | evaluations (such as heritage impact              |                                 |
| <ul> <li>reports) that:</li> <li>identify all heritage assets<br/>likely to be affected by the<br/>proposal;</li> <li>explain the nature and degree<br/>of any effect on elements that<br/>contribute to their<br/>significance and<br/>demonstrating how, in order<br/>of preference, any harm will<br/>be avoided, minimised or<br/>mitigated;</li> <li>provide a clear explanation<br/>and justification for the<br/>proposal in order for the harm<br/>to be weighed against public<br/>benefits; and</li> <li>demonstrate that all<br/>reasonable efforts have been<br/>made to sustain the existing<br/>use, find new uses, or mitigate</li> </ul>  |                      | assessments, desk-based appraisals,               |                                 |
| <ul> <li>identify all heritage assets<br/>likely to be affected by the<br/>proposal;</li> <li>explain the nature and degree<br/>of any effect on elements that<br/>contribute to their<br/>significance and<br/>demonstrating how, in order<br/>of preference, any harm will<br/>be avoided, minimised or<br/>mitigated;</li> <li>provide a clear explanation<br/>and justification for the<br/>proposal in order for the harm<br/>to be weighed against public<br/>benefits; and</li> <li>demonstrate that all<br/>reasonable efforts have been<br/>made to sustain the existing<br/>use, find new uses, or mitigate</li> </ul>  |                      | field evaluation and historic building            |                                 |
| <ul> <li>likely to be affected by the proposal;</li> <li>explain the nature and degree of any effect on elements that contribute to their significance and demonstrating how, in order of preference, any harm will be avoided, minimised or mitigated;</li> <li>provide a clear explanation and justification for the proposal in order for the harm to be weighed against public benefits; and</li> <li>demonstrate that all reasonable efforts have been made to sustain the existing use, find new uses, or mitigate</li> </ul>   |                      | reports) that:                                    |                                 |
| <ul> <li>proposal;</li> <li>explain the nature and degree<br/>of any effect on elements that<br/>contribute to their<br/>significance and<br/>demonstrating how, in order<br/>of preference, any harm will<br/>be avoided, minimised or<br/>mitigated;</li> <li>provide a clear explanation<br/>and justification for the<br/>proposal in order for the harm<br/>to be weighed against public<br/>benefits; and</li> <li>demonstrate that all<br/>reasonable efforts have been<br/>made to sustain the existing<br/>use, find new uses, or mitigate</li> </ul>  |                      | <ul> <li>identify all heritage assets</li> </ul>  |                                 |
| <ul> <li>explain the nature and degree<br/>of any effect on elements that<br/>contribute to their<br/>significance and<br/>demonstrating how, in order<br/>of preference, any harm will<br/>be avoided, minimised or<br/>mitigated;</li> <li>provide a clear explanation<br/>and justification for the<br/>proposal in order for the harm<br/>to be weighed against public<br/>benefits; and</li> <li>demonstrate that all<br/>reasonable efforts have been<br/>made to sustain the existing<br/>use, find new uses, or mitigate</li> </ul>   |                      | likely to be affected by the                      |                                 |
| <ul> <li>of any effect on elements that<br/>contribute to their<br/>significance and<br/>demonstrating how, in order<br/>of preference, any harm will<br/>be avoided, minimised or<br/>mitigated;</li> <li>provide a clear explanation<br/>and justification for the<br/>proposal in order for the harm<br/>to be weighed against public<br/>benefits; and</li> <li>demonstrate that all<br/>reasonable efforts have been<br/>made to sustain the existing<br/>use, find new uses, or mitigate</li> </ul>   |                      | proposal;   |                                 |
| <ul> <li>contribute to their</li> <li>significance and</li> <li>demonstrating how, in order</li> <li>of preference, any harm will</li> <li>be avoided, minimised or</li> <li>mitigated;</li> <li>provide a clear explanation</li> <li>and justification for the</li> <li>proposal in order for the harm</li> <li>to be weighed against public</li> <li>benefits; and</li> <li>demonstrate that all</li> <li>reasonable efforts have been</li> <li>made to sustain the existing</li> <li>use, find new uses, or mitigate</li> </ul>  |                      | <ul> <li>explain the nature and degree</li> </ul> |                                 |
| <ul> <li>significance and<br/>demonstrating how, in order<br/>of preference, any harm will<br/>be avoided, minimised or<br/>mitigated;</li> <li>provide a clear explanation<br/>and justification for the<br/>proposal in order for the harm<br/>to be weighed against public<br/>benefits; and</li> <li>demonstrate that all<br/>reasonable efforts have been<br/>made to sustain the existing<br/>use, find new uses, or mitigate</li> </ul>  |                      | of any effect on elements that                    |                                 |
| <ul> <li>demonstrating how, in order</li> <li>of preference, any harm will</li> <li>be avoided, minimised or</li> <li>mitigated;</li> <li>provide a clear explanation</li> <li>and justification for the</li> <li>proposal in order for the harm</li> <li>to be weighed against public</li> <li>benefits; and</li> <li>demonstrate that all</li> <li>reasonable efforts have been</li> <li>made to sustain the existing</li> <li>use, find new uses, or mitigate</li> </ul>   |                      | contribute to their                               |                                 |
| of preference, any harm will<br>be avoided, minimised or<br>mitigated;<br>provide a clear explanation<br>and justification for the<br>proposal in order for the harm<br>to be weighed against public<br>benefits; and<br>demonstrate that all<br>reasonable efforts have been<br>made to sustain the existing<br>use, find new uses, or mitigate  |                      | _   |                                 |
| <ul> <li>be avoided, minimised or<br/>mitigated;</li> <li>provide a clear explanation<br/>and justification for the<br/>proposal in order for the harm<br/>to be weighed against public<br/>benefits; and</li> <li>demonstrate that all<br/>reasonable efforts have been<br/>made to sustain the existing<br/>use, find new uses, or mitigate</li> </ul>  |                      | <b>S</b>  |                                 |
| <ul> <li>mitigated;</li> <li>provide a clear explanation<br/>and justification for the<br/>proposal in order for the harm<br/>to be weighed against public<br/>benefits; and</li> <li>demonstrate that all<br/>reasonable efforts have been<br/>made to sustain the existing<br/>use, find new uses, or mitigate</li> </ul>   |                      |   |                                 |
| <ul> <li>provide a clear explanation<br/>and justification for the<br/>proposal in order for the harm<br/>to be weighed against public<br/>benefits; and</li> <li>demonstrate that all<br/>reasonable efforts have been<br/>made to sustain the existing<br/>use, find new uses, or mitigate</li> </ul>   |                      | -   |                                 |
| <ul> <li>and justification for the proposal in order for the harm to be weighed against public benefits; and</li> <li>demonstrate that all reasonable efforts have been made to sustain the existing use, find new uses, or mitigate</li> </ul>   |                      |   |                                 |
| <ul> <li>proposal in order for the harm<br/>to be weighed against public<br/>benefits; and</li> <li>demonstrate that all<br/>reasonable efforts have been<br/>made to sustain the existing<br/>use, find new uses, or mitigate</li> </ul>   |                      |   |                                 |
| <ul> <li>to be weighed against public benefits; and</li> <li>demonstrate that all reasonable efforts have been made to sustain the existing use, find new uses, or mitigate</li> </ul>  |                      | -   |                                 |
| <ul> <li>benefits; and</li> <li>demonstrate that all<br/>reasonable efforts have been<br/>made to sustain the existing<br/>use, find new uses, or mitigate</li> </ul>   |                      |   |                                 |
| <ul> <li>demonstrate that all<br/>reasonable efforts have been<br/>made to sustain the existing<br/>use, find new uses, or mitigate</li> </ul>  |                      |   |                                 |
| reasonable efforts have been<br>made to sustain the existing<br>use, find new uses, or mitigate   |                      |   |                                 |
| made to sustain the existing<br>use, find new uses, or mitigate   |                      |   |                                 |
| use, find new uses, or mitigate   |                      |   |                                 |
|   |                      |   |                                 |
|   |                      |   |                                 |
|   |                      |   |                                 |
| significance of the asset; and<br>whether the works proposed  |                      |   |                                 |
| are the minimum required to   |                      |   |                                 |
| secure the long-term use of   |                      | -   |                                 |
| the asset.  |                      | _   |                                 |
|   |                      |   |                                 |



### 20.3 Consultation

- 6. Consultation is a key part of the Development Consent Order (DCO) application process. Consultation regarding Onshore Archaeology and Cultural Heritage has been conducted through the following processes:
  - Evidence Plan Process (EPP) including Expert Topic Group (ETG) meetings;
  - EIA scoping process (ODOW, 2022);
  - Bilateral engagement with relevant stakeholders;
  - Section 47 consultation process (all public consultation phases including phase 1 and 1a); and,
  - Section 42 consultation process (Phase 2 Consultation, the Autumn Consultation and the Targeted Winter Consultation).
- An overview of the Project's consultation process with reference to technical considerations is presented within Volume 1, Chapter 6: Technical Consultation (document reference 6.1.6).
   Further information on the Project's consultation phases can be found in the Project's Consultation Report (document reference 5.1).

A summary of the key issues raised during consultation to date, specific to Onshore Archaeology and Cultural Heritage, is outlined in Table 20.2 below, together with how these issues have been considered in the provision of this chapter.



Table 20.2: Summary of consultation relating to Archaeology and Cultural Heritage

| Date and Consultation Phase/type  | Consultation and key issues raised                                | Sections where comment addressed                         |
|-----------------------------------|---|--|
| 9th September 2022                | Given the stage of the Proposed Development and                   | The HS provided in Appendix 20.2 has addressed all       |
| Scoping Opinion                   | current absence of information regarding the                      | potential impact to designated and non-designated assets |
| The Planning Inspectorate         | significance of assets and potential impacts of the               | within search areas extending to 5km for designated      |
| 3.14.1 - Table 8.2.4 -            | Proposed Development, the Inspectorate does not                   | assets of high importance.                               |
| The consideration of indirect     | agree to scope this matter out. The ES should include             |  |
| (setting) effects caused by the   | an assessment of indirect (setting) effects arising from          |  |
| construction of the onshore       | the construction of the onshore export cable on                   |  |
| export cable on designated        | designated heritage assets more than 500m from the                |  |
| heritage assets located in excess | route, where likely significant effects could occur.              |  |
| of 500m from the route.           |   |  |
| 9th September 2022                | Given the stage of the Proposed Development and                   | The HS provided in Appendix 20.2 has addressed all       |
| Scoping Opinion                   | lack of information about the location of the OnSS, the           | potential impact to designated and non-designated assets |
| The Planning Inspectorate3.14.2 - | Inspectorate does not agree at this stage it is possible          | within search areas extending to 5km for designated      |
| Table 8.2.4 - The consideration   | to scope out effects on heritage assets in excess of              | assets of high importance.                               |
| of indirect (setting) effects     | 2km from the route. Given the potential size, scale               |  |
| caused by the presence of the     | and undefined location of this element of the                     |  |
| substation on designated          | Proposed Development, this matter should be scoped                |  |
| heritage assets in excess of 2km  | into the assessment where likely significant effects could occur. |  |
| from the installations.           |   |  |
| 9th September 2022                | Given the distance to the array, the Inspectorate                 | Scoped out.  |
| Scoping Opinion                   | agrees that there is unlikely to be a significant effect          |  |
| The Planning Inspectorate         | on the terrestrial heritage assets not highlighted by             |  |
| 3.14.3 - Table 8.2.4 – The        | stakeholders or identified as being potentially                   |  |
| consideration of indirect         | sensitive by the heritage consultant and that this                |  |
| (setting) effects caused by the   | matter can be scoped out of the assessment.                       |  |
| offshore turbines and             |   |  |
| substations on terrestrial        |   |  |
| designated heritage assets not    |   |  |



| Date and Consultation Phase/type                       | Consultation and key issues raised  | Sections where comment addressed  |
|--|---|---|
| highlighted by stakeholders or                         |   |   |
| identified as being potentially                        |   |   |
| sensitive by the heritage                              |   |   |
| consultant.  |   |   |
| 9th September 2022                                     | The Inspectorate agrees that given the localised  | Scoped out.   |
| Scoping Opinion  | onshore nature of the effects from the Proposed   |   |
| The Planning Inspectorate 3.14.4 -                     | Development, significant transboundary heritage   |   |
| Paragraph 8.2.44 – Potential                           | effects are unlikely to occur, and this matter can be   |   |
| transboundary effects                                  | scoped out of the assessment.   |   |
| 9th September 2022                                     | The Applicant's attention is directed to the response   | The East Midlands Historic Environment Research                               |
| Scoping Opinion  | of Historic England at Appendix 2 of this Opinion,  | Framework (EMHERF) is referenced appropriately within                         |
| The Planning Inspectorate 3.14.5 -                     | which identifies the East Midlands Historic   | the OWSI (document reference 8.9).  |
| Table 8.2.1  | Environment Research Framework (EMHERF) as an   |   |
|  | important resource for both marine and terrestrial  |   |
| 011 0 1 0000   | archaeology impact assessments.   |   |
| 9th September 2022                                     | It is not clear from the Scoping Report why a 2km   | The HS provided in Appendix 20.2 has addressed all                            |
| Scoping Opinion  | search area around the OnSS has been chosen to  | potential impact to designated and non-designated assets                      |
| The Planning Inspectorate<br>3.14.6 - Paragraph 8.2.23 | establish those heritage assets that could be sensitive<br>to changes in their setting. The ES should explain the | within search areas extending to 5km for designated assets of high importance |
| 5.14.0 - Palagraph 6.2.25                              | choice of all search areas used including the reasons   | assets of high importance   |
|  | for their selection.  |   |
| 9th September 2022                                     | The Inspectorate notes that a ZTV will be prepared as   | The ZTV is shown on the drawings illustrating the location                    |
| Scoping Opinion  | part of the landscape and visual assessment (LVIA) for  | of designated heritage assets. The ZTV was referred to                        |
| The Planning Inspectorate                              | the onshore works and that it may be used for the   | during the filtering of assets undertaken as part of the EIA.                 |
| 3.14.7 - Paragraph 8.2.38                              | Archaeology and Cultural Heritage assessment. The   | It is recognised and understood that impacts to setting are                   |
|  | Inspectorate recommends the LVIA, and heritage  | not just visual, as it also recognised that a visual change                   |
|  | consultants liaise closely with regards to the ZTV to   | does not necessarily equate to 'harm'. The assessment of                      |
|  | ensure heritage assets within the LVIA ZTV are  | effects to setting which may include the consideration of                     |
|  | appropriately identified, noting that impacts on  | lighting and noise changes has been considered. This is                       |
|  | setting are not limited to just visual. Should the use of   | addressed within Appendix 20.2.   |
|  | a ZTV be considered ineffective for the cultural  |   |



| Date and Consultation Phase/type   | Consultation and key issues raised   | Sections where comment addressed  |
|--|--|---|
|  | heritage assessment (as noted as possible in the Scoping Report), this should be explained and justified in the ES.  |   |
| 9th September 2022<br>Scoping Opinion<br>The Planning Inspectorate<br>3.14.8 - Paragraph 8.2.39  | The ES should clearly explain what aspect-specific criteria are used to define receptor value/sensitivity and magnitude of change for the archaeology and cultural heritage assessment.  | For the purposes of EIA, a tabulated matrix has been<br>utilised to present the results of impact assessment. The<br>Design Manual for Roads and Bridges (DMRB) matrices has<br>been referenced with a technical narrative presented<br>within the HS, DBA and Chapter where necessary.   |
| 9th September 2022<br>Scoping Opinion<br>The Planning Inspectorate<br>3.14.9 - Table 8.2.3       | The ES should also consider the potential for effects<br>on other historic land features, such as drainage<br>patterns and ditches alongside historic landscape<br>character, where significant effects are likely to occur.<br>Reference could be made to the Lincolnshire Historic<br>Landscape Characterisation (2011). | The assessment of potential effects on historic landscape<br>character is addressed within Appendix 20.2, Annex 3.<br>Features of the historic landscape areas assessed<br>referencing the areas included in the Lincolnshire Historic<br>Landscape Characterisation Project include drainage<br>ditches and dykes. As such these features of historic<br>landscape character are considered to be assessed. No<br>significant impacts are identified.  |
| 9th September 2022<br>Scoping Opinion<br>The Planning Inspectorate<br>3.14.10 - Paragraph 8.2.31 | The assessment should address the significance of<br>both designated and non-designated heritage assets,<br>using sufficiently robust evidence and taking into<br>account advice from relevant consultation bodies.  | Non-designated assets and designated heritage assets<br>have been considered. These primarily include assets of a<br>built heritage nature, designated and non-designated.<br>However, other remains may also be sensitive to change,<br>particularly if they have earthworks and are tangible<br>features where understanding is clearly evidenced by<br>visible landscape features. In respect to non-designated<br>assets, consideration of the latter has highlighted certain<br>categories of non-designated asset which may be affected<br>by setting change under the circumstances of the<br>proposals. These include earthworks which could be<br>affected by potential partial breach/loss of footprint. This<br>is addressed within Appendix 20.2. |
| 9th September 2022<br>Scoping Opinion  | The baseline data should include a review of available<br>Portable Antiquities Scheme data.  | The Portable Antiquities Scheme has been consulted with<br>and the results included within the DBA, Appendix 20.1.  |



| Date and Consultation Phase/type             | Consultation and key issues raised   | Sections where comment addressed                               |
|--|--|--|
| The Planning Inspectorate                    |  |  |
| 3.14.11 -Paragraph 8.2.35                    |  |  |
| 9th September 2022                           | The Inspectorate notes that limited information is   | Proposed mitigation measures which include preservation        |
| Scoping Opinion                              | provided in the Scoping Report on the approach to  | in situ for remains of national importance are set out         |
| The Planning Inspectorate                    | mitigation, beyond proposed embedded measures.   | within the OWSI (document reference 8.09).                     |
| 3.14.12 - Paragraphs 8.2.40 to               | The Applicant should seek to agree an appropriate  |  |
| 8.2.41                                       | mitigation strategy that addresses significant effects   |  |
|  | with the relevant consultation bodies, as part of the  |  |
| 014 0 014 0 0000                             | EPP.   |  |
| 9th September 2022                           | The onshore elements of the Proposed Development   | Acknowledgement of potential change to the water               |
| Scoping Opinion<br>The Planning Inspectorate | have potential to change the pattern of drainage within and adjacent to the boundary of works. Effects | environment has been achieved through reference to Chapter 24. |
| 3.14.13 - n/a                                | of changes to drainage on designated and non-  |  |
| 5.14.15 - II/a                               | designated heritage assets should be included in the   |  |
|  | assessment, where significant effects are likely to  |  |
|  | occur.   |  |
| 9th September 2022                           | Gunby Hall Registered Park and Garden - This RPG is  | The asset is located 4.7km west of the ECC and is              |
| Scoping Opinion                              | located adjacent to the western boundary of the area   | addressed within Volume 3, Appendix 20.2: Onshore              |
| The Planning Inspectorate                    | of search for the Proposed Development. Setting  | Archaeology and Cultural Heritage - Heritage Statement.        |
| 3.14.14 - n/a                                | effects on this receptor should be addressed in the  |  |
|  | assessment where significant effects are likely to   |  |
|  | occur. There should be appropriate cross reference   |  |
|  | between the LVIA and the Archaeology and Cultural  |  |
|  | Heritage assessments to ensure there is complete   |  |
|  | consideration of potential effects on this receptor.   |  |
| 9th September 2022                           | The ES should assess impacts to peat deposits in this  | Peat deposits have been referenced within the DBA, see         |
| Scoping Opinion                              | aspect chapter, in addition to the consideration of  | Appendix 20.1. This has referenced a deposit model which       |
| The Planning Inspectorate                    | peat acknowledged for the Marine Archaeology   | has addressed the potential for peat deposits. The             |
| 3.14.15 n/a                                  | aspect chapter, where significant effects are likely to  | potential impact to peat deposits is set out within section    |
|  | occur. The approach to assessment and any proposed   | 20.7.  |



| Date and Consultation Phase/type | Consultation and key issues raised  | Sections where comment addressed                                  |
|----------------------------------|---|---|
|                                  | mitigation should be discussed with the relevant  |   |
|                                  | consultation bodies.  |   |
| 9th September 2022               | The Applicant's attention is directed to the response   | The DBA references a review of the necessity for a full air       |
| Scoping Opinion                  | of Lincolnshire County Council contained in Appendix  | photo assessment (Appendix 20.1). On the grounds set out          |
| The Planning Inspectorate        | 2 to this Opinion in respect of the approach to the   | within the DBA it is anticipated that the geophysical survey      |
| 3.14.16 - n/a                    | design and detail for the archaeological impact   | is a reliable prospection technique for significant or            |
|                                  | assessment. The Applicant should seek to agree the  | extensive archaeological remains. Aerial photographic             |
|                                  | detailed scope of the impact assessment with the relevant consultation bodies, including the County | assessment is not necessary to supplement the geophysical survey. |
|                                  | Archaeologist and Historic England, as part of the EPP.   | geophysical survey.   |
|                                  | Archaeologist and historic England, as part of the EFF.   |   |
|                                  | County Archaeologist Comment - Baseline data  |   |
|                                  | sources -   |   |
|                                  | A full competent LiDAR and air photo analysis,  |   |
|                                  | interpretation and assessment is required with  |   |
|                                  | full aerial photo coverage using all available  |   |
|                                  | oblique and vertical air photos including the   |   |
|                                  | Historic England Archive and Cambridge  |   |
|                                  | University Collection of Air  |   |
|                                  | Photos as well as RAF and Ordnance Survey photos  |   |
|                                  | including those held by Lincolnshire County Council.  |   |
| 9th September 2022               | The Applicant's attention is directed to the response   | The post medieval section of the DBA, Appendix 20.1,              |
| Scoping Opinion                  | of Lincolnshire County Council contained in Appendix  | references a cartographic regression including Ordnance           |
| The Planning Inspectorate        | 2 to this Opinion in respect of the approach to the   | Survey maps and pre-Ordnance Survey maps held by the              |
| 3.14.16 - n/a                    | design and detail for the archaeological impact   | Lincolnshire record office.                                       |
|                                  | assessment. The Applicant should seek to agree the  |   |
|                                  | detailed scope of the impact assessment with the  |   |
|                                  | relevant consultation bodies, including the County  |   |
|                                  | Archaeologist and Historic England, as part of the EPP.   |   |
|                                  |   |   |



| Date and Consultation Phase/type | Consultation and key issues raised                       | Sections where comment addressed                           |
|----------------------------------|--|--|
|                                  | County Archaeologist Comment - Baseline data             |  |
|                                  | sources - Full historic map regression of impact zone    |  |
|                                  | to include all available maps.                           |  |
| 9th September 2022               | The Applicant's attention is directed to the response    | A LiDAR assessment has been undertaken for the Order       |
| Scoping Opinion                  | of Lincolnshire County Council contained in Appendix     | Limits (see Volume 3, Appendix 20.1, Annex 17).            |
| The Planning Inspectorate        | 2 to this Opinion in respect of the approach to the      |  |
| 3.14.16 - n/a                    | design and detail for the archaeological impact          |  |
|                                  | assessment. The Applicant should seek to agree the       |  |
|                                  | detailed scope of the impact assessment with the         |  |
|                                  | relevant consultation bodies, including the County       |  |
|                                  | Archaeologist and Historic England, as part of the EPP.  |  |
|                                  | County Archaeologist Comment - Baseline data             |  |
|                                  | sources - Full LiDAR assessment across the impact        |  |
|                                  | zone.  |  |
| 9th September 2022               | The Applicant's attention is directed to the response    | The DBA, Appendix 20.1, references the results of field    |
| Scoping Opinion                  | of Lincolnshire County Council contained in Appendix     | evaluation comprising a watching brief of site             |
| The Planning Inspectorate        | 2 to this Opinion in respect of the approach to the      | investigations and targeted magnetometer geophysical       |
| Appendix 2 responses             | design and detail for the archaeological impact          | survey and electromagnetic geophysical survey. In light of |
|                                  | assessment. The Applicant should seek to agree the       | the indicative onshore infrastructure as set out in Figure |
|                                  | detailed scope of the impact assessment with the         | 3.4.7, a commitment that preservation in situ of remains   |
|                                  | relevant consultation bodies, including the County       | of national importance could be accommodated for works     |
|                                  | Archaeologist and Historic England, as part of the EPP.  | along the onshore Order Limits (document reference 8.13)   |
|                                  |  | and the findings of the DBA and this Chapter, it is not    |
|                                  | County Archaeologist comment - Fieldwork –               | considered necessary to further evaluate the significance  |
|                                  | It's vital that a competent full desk-based assessment   | of potential archaeology. Further geophysical and trial    |
|                                  | be completed at the earliest opportunity, as this along  | trenching will be undertaken post EIA to support the       |
|                                  | with a full Air Photo/LiDAR assessment and the           | preservation in-situ commitment. In these circumstances    |
|                                  | geophysical survey results across the impact zone all    | the baseline presented is considered adequate for the      |
|                                  | required to inform the trial trenching strategy which is | determination of the DCO. The Outline Written Scheme of    |
|                                  | necessary to determine the archaeological                | Investigation (OWSI) provides for a framework for the      |



| Date and Consultation Phase/type | Consultation and key issues raised                     | Sections where comment addressed                          |
|----------------------------------|--|---|
|                                  | potential within the impact zone.                      | undertaking of evaluation to inform all mitigation        |
|                                  |  | strategies including preservation in situ post consent of |
|                                  | Following geophysical survey a programme of trial      | the DCO. All potential mitigation strategies are set out  |
|                                  | trenching is required, not only across known or        | within the OWSI (document reference 8                     |
|                                  | suspected archaeology to determine their presence or   |   |
|                                  | absence, depth, extent and significance but also       |   |
|                                  | across the 'blank' areas to obtain baseline evidence   |   |
|                                  | where previous evaluation techniques have not          |   |
|                                  | identified archaeological remains. This is required to |   |
|                                  | get a full understanding of the archaeology which will |   |
|                                  | be impacted across the full impact zone and will       |   |
|                                  | inform the archaeological mitigation strategy which    |   |
|                                  | must be undertaken as part of the EIA.                 |   |
|                                  | Trenching results are essential for effective risk     |   |
|                                  | management and to inform programme scheduling          |   |
|                                  | and budget management. Failing to do so could lead     |   |
|                                  | to unnecessary destruction of heritage assets,         |   |
|                                  | potential programme delays and excessive cost          |   |
|                                  | increases that could otherwise be avoided. A           |   |
|                                  | programme of trial trenching is required to inform a   |   |
|                                  | robust mitigation strategy which will need to be       |   |
|                                  | agreed by the time the Environmental Statement is      |   |
|                                  | produced and submitted with the DCO application.       |   |
| Section 42 responses             | Historic England - it will be important as design is   | The geoarchaeological deposit model appended to the       |
|                                  | developed that there is no loss of coverage between    | DBA extends within the inter-tidal zone. Any further      |
|                                  | the Marine and Terrestrial WSI's - this should be      | geoarchaeological deposit modelling undertaken after the  |
|                                  | specifically reviewed to ensure continuous coverage    | implementation of further geoarchaeological field work    |
|                                  | of archaeological methodology. In addition, where      | set out within the DBA will reference the results of any  |
|                                  | remains such for instance as buried soils or shoreline | work undertaken in respect to the offshore works such     |
|                                  | structures span between the two regimes it will be     | that any relevant information on deposits recorded by the |



| Date and Consultation Phase/type | Consultation and key issues raised  | Sections where comment addressed  |
|----------------------------------|---|---|
|                                  | important that investigation and report are   | offshore works will be dovetailed with the results of the   |
|                                  | integrated.   | onshore works, where it is pertinent to do so.  |
| Section 42 responses             | Historic England - Consultation on the terrestrial<br>geophysical survey has been positive. This work has<br>we understand now commenced (too late for<br>inclusion in the PEIR) hence cannot be discussed at<br>length here. We would note however the importance<br>of a nuanced approach to the deployment of survey<br>techniques in particular on the cable run along the<br>coastal silts where within those areas of low potential<br>there are evident areas of<br>more solid ground with medieval and later<br>archaeological features which should be targeted in<br>their geomorphological context (i.e., not just the | Geophysical survey has targeted the parts of the Order<br>Limits within areas west of historic high-water marks.<br>These areas in the northern and central parts of the Order<br>Limits (ECC1-ECC10) are considered to hold archaeological<br>potential due to their historic location within areas not<br>characterised by permanent inundation or tidal conditions<br>for part of or all of the periods between the Late<br>Mesolithic period and the medieval period. Areas of drier<br>land in these parts of the Order Limits, which may have<br>persisted as habitable or semi-habitable places within<br>areas being affected by the historic fluctuations in high<br>water marks and coastal flooding, have been identified by |
|                                  | features visible on lidar but the 'dry' landscape<br>component as a whole). It will be important to test<br>'blank areas' for methodological rigor in addition to<br>positive targets.  | the electromagnetic survey.<br>The geophysical report is annexed to the DBA (annex 19).<br>The anomalies recorded and areas highlighted as being dry<br>(as well as their immediate proximities/interactions with<br>wet land) will be targeted by post EIA trial trenching.<br>Works are set out within the OWSI.  |
| Section 42 responses             | Historic England - In the Onshore Archaeology and<br>Cultural Heritage PEIR section (Chapter 20, Outer<br>Dowsing Document No: 6.1.20) the authors make<br>reference in paragraph 20.4.6 (and elsewhere) to a<br>deposit model that was prepared. This is provided in<br>'Volume 2, Appendix 20.1: Onshore Archaeology and<br>Cultural Heritage Desk-Based Assessment' as Annex<br>23A. The assessment has been produced by AOC and<br>appears substantially more robust than the offshore<br>version. It is worth noting, however, that this<br>terrestrial deposit modelling assessment is a desk-                              | An updated deposit model has been prepared for<br>submission at EIA. This is annexed to the DBA (annex 18).<br>This includes updates in reference to a monitored<br>programme of Site Investigations undertaken post PEIR.<br>Further updates to modelling are referenced within the<br>OWSI.   |



| Date and Consultation Phase/type | Consultation and key issues raised  | Sections where comment addressed   |
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| Section 42 responses             | based report only. We understand there were plans<br>to monitor a small number of geotechnical boreholes<br>and update the model with these in the spring (see<br>paragraph 6.19 of chapter 20), it is regrettable that<br>update does not appear yet to have been provided. It<br>would be better to have started to ground truth and<br>fill in gaps in the model now, but what has provided<br>for the onshore is significantly superior to the<br>offshore work.<br>Historic England - The sooner the results of<br>geophysical survey can be integrated with desk-based<br>assessment and deposit modelling, and targets taken<br>forwards for trial trenching the better. To restate a<br>point made in previous discussion, it is never possible<br>to identify all features of archaeological interest in<br>evaluation, but one can manage down the risk of the<br>discovery of multiple sensitive, complex and time-<br>consuming remains being encountered during works<br>and the associated inefficiencies in mitigation and<br>delivery. In particular an understanding of the detail<br>of the historic coast and inlets / points of<br>entry will assist greatly to identify both potential in<br>channels and on 'dry' land sites which articulated with<br>such points (we attach a final pre-publication copy of<br>Caitlin Green's Coastal Landscape Report in this | Dr Cailtin Green's publication was gratefully received and<br>has been referenced within the DBA. The use of<br>electromagnetic survey, identifying areas of drier ground<br>alongside possible channels will inform trial trenching<br>which is being undertaken post EIA as referenced within<br>the OWSI (document reference 8.9). This will inform on<br>mitigation works with due regard to conclusions of the<br>DBA and ES that no significant impacts are predicted<br>where preservation in situ cannot be secured. |
| Section 42 responses             | regard).<br>Historic England - Regarding the understanding and<br>management of impacts upon buried wet remains<br>(intersected by the cable corridor) we highlight our<br>detailed preservation guidance. It is important to<br>stress that where the works are likely to affect the   | The presence of the tidal mudflats in-particular is<br>acknowledged as providing an area within which organic<br>remains may be present. The Historic England publication<br>referenced (Environmental Archaeology 2011) will be<br>referenced within any WSIs. The OWSI references  |



| Date and Consultation Phase/type | Consultation and key issues raised  | Sections where comment addressed   |
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|                                  | burial environment of important remains any solution<br>involving avoidance / excavation etc needs to be<br>grounded in a sound understanding of the burial<br>environment the preservation of the remains and the<br>mechanisms for effect from the works (which may act<br>over distance depending upon the hydrology).   | protocols for dealing with wet remains to ensure their<br>preservation (not necessarily in-situ).<br>The hydrological environment of the footprint of<br>disturbance and the effect of changes over a greater area<br>has been acknowledged as far as is possible within the ES<br>chapter with reference to findings from the hydrology,<br>hydrogeology and flood risk chapter (document reference<br>6.1.24). |
| Section 42 responses             | Historic England - A scheme wide approach to the targeting, recovery and analysis of samples to considered research questions should form a key element of the Outline written Scheme of Investigation. See our guidance and the advice of our regional Science Advisor.  | The OWSI includes reference to research objectives<br>relevant to the potential impacts of the Project. Reference<br>is made in the OWSI to the Historic England publication<br>referenced (Environmental Archaeology 2011) and also<br>the East Midlands Research Framework.  |
| Section 42 responses             | Historic England - In NPS / NPPF / PPG terms it is<br>helpful to consider the above terms to be nested, with<br>values being the socially constructed view of assets,<br>significance being the structured assessment<br>(professional assessment) there-of and importance<br>the relative worth (including designation by the state).<br>Whilst the use of language is further complicated<br>in the context of EIA by the use significant as an<br>adjective, it remains useful to avoid further ambiguity<br>in terminology. At para 5.6 second bullet for instance<br>'highest level of significance' would read better as<br>'highest level of importance' | Ambiguity in terminology – specifically the term<br>'significance' – has been reviewed at EIA where possible.<br>It is acknowledged EIA references the term 'significance'<br>to describe effects whereas Chapter 16 of the NPPF<br>references the term 'significance' to infer importance. The<br>term importance is used more widely at EIA.   |
| Section 42 responses             | Historic England - We welcome the initial approach to<br>setting set out in PIER Heritage Statement in<br>particular the flexible approach to consideration<br>based upon judgement in preference to overly rigid   | Historic Landscape Character did not form part of the PEIR baseline but has been referenced as part of EIA within the HS (6.3.20.2 annex 3).   |



| Date and Consultation Phase/type | Consultation and key issues raised                      | Sections where comment addressed                          |
|----------------------------------|---|---|
|                                  | radii. As explored in section 5 of the onshore cultural |   |
|                                  | heritage and archaeology section of the PEIR there is   |   |
|                                  | much good analysis, but this could be enhanced with     |   |
|                                  | stronger reference to a structured understanding of     |   |
|                                  | the shifting historic landscape and the contemporary    |   |
|                                  | siting of features there in (see the attached report by |   |
|                                  | Caitlin Green). Weight should be given to the           |   |
|                                  | experience of historic places as the aggregate of       |   |
|                                  | phases of landscape change in addition to specifically  |   |
|                                  | contemporaneous relationships - see our GPA 3           |   |
| Section 42 responses             | Historic England – Work yards/compounds. It is          | The location of all works compounds have been included    |
|                                  | important for the effective control of environmental    | within the Order Limits subject to assessment at EIA.     |
|                                  | impacts that the sites of ancillary facilities are      |   |
|                                  | addressed within the scope of the ES whether to be      |   |
|                                  | used by the principal contractor or subcontractors or   |   |
|                                  | suppliers. There should be robust mechanisms in         |   |
|                                  | place to ensure that secondary / unplanned for          |   |
|                                  | additional facilities are nevertheless sited and        |   |
|                                  | managed in accordance with the ES. It is our            |   |
|                                  | experience that such facilities on linear projects can  |   |
|                                  | become detached from the strategies for the             |   |
|                                  | management of risk set out in the ES hence the need     |   |
|                                  | for particular attention to this point.                 |   |
| Section 42 responses             | Historic England – duck decoys. As noted in the PEIR    | Geophysical survey and historic map regression            |
|                                  | decoys that survive late enough to appear on OS         | undertaken at EIA and presented within the DBA has        |
|                                  | 1:2500  | included the assessment of the Order Limits adjacent to   |
|                                  | mapping or as extant earthworks form only a fraction    | the scheduled duck decoy. A possible water management     |
|                                  | of the extent of such features once present (compare    | feature associated with the monument is shown on          |
|                                  | the OS1" and accounts such as the link below) a         | historic mapping crossing the Order Limits, but this is a |
|                                  | systematic approach to assessment in areas of           | drainage feature planned for avoidance through            |
|                                  | survival is likely to identify additional features and  | trenchless works.   |



| Date and Consultation Phase/type | Consultation and key issues raised  | Sections where comment addressed  |
|----------------------------------|---|---|
|                                  | water management systems  |   |
|                                  | Historic England - The unscheduled remains believed<br>to comprise the medieval village of Slackholme are<br>potentially of equivalent importance to a scheduled<br>monument and in the first instance options to avoid<br>should be pursued, potential to pass through / under<br>on a route at a point of least apparent survival are<br>challenging given the inherent uncertainty of the<br>relationship between surface expression and below<br>ground survival and the risk of being 'locked in' to a<br>line revealed later to be undesirable. The desirability<br>and effectiveness of such a 'surgical' solution would<br>depend to a large extent upon the degree to which<br>early detailed understanding could be secured.<br>Consideration to collateral impacts of vehicle<br>movements, hydrological severance etc should also<br>be considered. Overall, avoidance or direct drill<br>options would be much preferable for identified high<br>importance features both for the reduction of<br>avoidable harm and the<br>husbanding of archaeological resource to mitigate<br>impacts revealed later which cannot so readily be<br>avoided. | The footprint of the asset recorded by the HER and all<br>associated earthworks would be avoided through the use<br>of trenchless works. This is secured through Figure 3.4.7.8<br>and the Schedule of Mitigation (document reference<br>8.13). It is anticipated that directional drilling achieving a<br>depth of 5m BGL will avoid the base of cut features.<br>Furthermore, no works associated with haul roads are<br>proposed within the asset. |
| Section 42 responses             | Historic England - Consideration of terrestrial crash<br>sites / military remains / UXO should be given<br>alongside that afforded offshore (given the extensive<br>aviation heritage of the area).   | The EIA baseline does not reference any crash sites or<br>military remains within the Order Limits. Nevertheless, a<br>protocol has been included within the OWSI.  |
| Section 42 responses             | Historic England - Assumptions as to the loss of<br>Roman Coastal features due to post-Roman<br>inundation should be treated with caution pending<br>the testing of survival given limited data.  | Baseline assessment presented within the DBA, including deposit modelling provides data on the depth of Roman land surfaces. Portable Antiquities Scheme data (PAS) has been referenced within the DBA.   |



| Date and Consultation Phase/type | Consultation and key issues raised  | Sections where comment addressed  |
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|                                  | Localised unexpectedly good preservation should be<br>allowed for. Portable Antiquities Scheme data may<br>assist in this regard and should be consulted.   |   |
| Section 42 responses             | Historic England - Considerable prior though should<br>be given to the handling and conservation of<br>waterlogged wood revealed, past experiences of<br>linear schemes have involved large wooden artefacts<br>being sat exposed for significant period due to the lack<br>of an in-place plan for extraction and wet storage and<br>assessment in conservation controlled conditions  | A broad strategy for effective short-term measures and<br>timely long-term solutions for the preservation of<br>waterlogged timbers has been drawn into the OWSI.<br>These will also be referenced in any subordinate WSIs.   |
| Section 42 responses             | Historic England - the archaeological potential of<br>extant ridge and furrow to reveal sequence (of<br>intercutting strips / reorganisation) or in stratigraphic<br>relation to earlier and later boundaries should not be<br>underestimated. There is potential for buried land<br>surfaces to be preserved under the centre line of<br>ridges. Where/if Ridge and Furrow is extant and to be<br>bisected by the cable then it should be reinstated to<br>profile.  | No areas of extant ridge and furrow would be disturbed within the Order Limits.   |
|                                  | Historic England - The relationship of saltings of all<br>periods to contemporary topography and water levels<br>is crucial, prospection based upon geophysical (mag)<br>survey and deposit modelling (often sited on rodens<br>as dry ground) is of high importance, scientific dating<br>strategies are clearly important as is a careful<br>approach to excavation to identify the often<br>ephemeral traces of contemporary seasonal (?)<br>occupation in association with the more obvious<br>productive remains themselves. | The presence/absence of saltings and their anticipated<br>levels of importance are set out within the DBA.<br>Geophysical survey has identified some potential salterns<br>and these will be targeted by the trial trenching as<br>referenced within the OWSI (document reference 8.9). |
| Section 42 responses             | Historic England - All direct impacts upon scheduled monuments should be regarded as avoidable and  | A proposed access track to the north of the monument<br>and a secondary compound to the west of the monument  |



| Date and Consultation Phase/type                   | Consultation and key issues raised   | Sections where comment addressed  |
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|  | designed out. We note that the line of the causeway<br>from Abbey Hills to Friskney appears to be crossed by<br>the PEIR - there is a clear need for further<br>investigation and discussion of options with HE as a<br>feature of high importance (directional drill?)    | are shown within the Order Limits, Figure 3.4.7.24. The<br>potential for the preservation in situ of remains of national<br>importance present within the construction parameters<br>associated with these activities is set out within the<br>Schedule of Mitigation (document reference 8.13). These<br>acknowledge that the results of fieldwork will inform<br>detailed design. Mitigation through preservation in situ<br>informed by archaeological evaluation is referenced<br>within the OWSI.  |
| Lincolnshire County Council Section<br>42 Comments | Lincolnshire County Council – comments re historic<br>map regression and LiDAR – requesting a full map<br>regression and a full LiDAR assessment.  | The EIA has included a full map regression including<br>reference to historic Ordnance Survey and pre-Ordnance<br>Survey maps including Tithe Maps and Inclosure Maps.<br>These are discussed and illustrated within the DBA. The<br>EIA has also included a full LiDAR Assessment. This is<br>annexed to the DBA (Annex 17) and is referenced<br>throughout the DBA. The results of LiDAR also influenced<br>the targeting of geophysical survey in areas not otherwise<br>selected for geophysical survey.  |
|  | Lincolnshire County Council – comments re aerial<br>photographic assessment. Reference made to the<br>necessity of a full competent aerial photographic<br>assessment referencing photographs from Historic<br>England's Archive, the Cambridge Collection and the<br>HER. | The EIA has not included a full aerial photographic<br>assessment. This is not considered to render the DBA<br>'incompetent'. The selection of baseline survey<br>techniques presented within the DBA has taken into<br>account the depositional environment of the Order Limits<br>and the position of the Order Limits in reference to historic<br>coastlines. The use of geophysical survey using<br>magnetometer and electromagnetic survey techniques is<br>considered to be a more useful and effective tool in<br>determining archaeological potential in this instance.<br>Nevertheless, sample areas of aerial photography<br>assessment referencing the most extensive collections of |



| Date and Consultation Phase/type | Consultation and key issues raised                   | Sections where comment addressed   |
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|                                  |  | aerial photographs held at the Historic England archives   |
|                                  |  | have been undertaken within the Order Limits to provide  |
|                                  |  | some reassurance that a dual application of geophysical  |
|                                  |  | survey and aerial photographic assessment is not   |
|                                  |  | necessary to illustrate archaeological potential. This is  |
|                                  |  | presented within the DBA.  |
|                                  | Lincolnshire County Council – comments around trial  | Trial trenching has not been undertaken as part of EIA. In   |
|                                  | trenching.   | light of the indicative onshore infrastructure as set out in   |
|                                  |  | Figure 3.4.7, and the Schedule of Mitigation which   |
|                                  |  | accommodates the preservation in situ of remains of  |
|                                  |  | national importance along the onshore ECC between the  |
|                                  |  | TJB and the OnSS (document reference 8.13) and the   |
|                                  |  | findings of the DBA (document reference 6.3.20.1) and  |
|                                  |  | this Chapter, the necessity for fieldwork to determine the   |
|                                  |  | application is not considered necessary to further evaluate  |
|                                  |  | the significance of potential archaeology. Investigations  |
|                                  |  | will be carried out prior to construction to support the preservation in-situ commitment. Fieldwork is therefore |
|                                  |  | scheduled for post the consent of the DCO. In these  |
|                                  |  | circumstances the baseline presented is considered   |
|                                  |  | sufficient for the determination of the DCO. Trial trenching   |
|                                  |  | is set out within the OWSI (document reference 8.9).   |
|                                  | Lincolnshire County Council – areas of tree planting | Areas of tree planting are anticipated to disturb to depths  |
|                                  | need to be included within evaluation phases         | of 0.4-0.5m. The areas of tree planting are proposed at the  |
|                                  | including mitigation.                                | southern end of the Order Limits within areas not  |
|                                  |  | anticipated from coastline regressions to be within areas  |
|                                  |  | of particular archaeological potential. Nevertheless, it is  |
|                                  |  | anticipated that areas of extensive planting would be  |
|                                  |  | included for evaluation as set out within the OWSI   |
|                                  |  | (document reference 8.9).  |



| Date and Consultation Phase/type | Consultation and key issues raised                      | Sections where comment addressed                            |
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|                                  | Lincolnshire County Council – general comments on       | An Outline WSI for Archaeological Works has been            |
|                                  | the absence of an Outline WSI for Evaluation            | prepared setting out evaluation and mitigation strategies   |
|                                  |   | (document 8.09).  |
|                                  | Lincolnshire County Council - Sufficient information    | The full citation for (Regulation 5 (2d)) provides that the |
|                                  | on the archaeological potential must include            | paragraph cited is in reference to 'significant effects'    |
|                                  | evidential information on the depth, extent and         | only. The ES chapter supported by a DBA has not             |
|                                  | significance of the archaeological deposits which will  | predicted significant impacts where preservation in situ is |
|                                  | be impacted by the development. The results will        | not possible. Preservation in situ to prevent any impacts   |
|                                  | inform a fit for purpose mitigation strategy which will | which could be significant is secured through the           |
|                                  | identify what measures are to be taken to minimise      | Schedule of Mitigation (document reference 8.13), Figure    |
|                                  | or adequately record the impact of the proposal on      | 3.4.7 and the OWSI (document 8.9). Of the two locations     |
|                                  | archaeological remains which must be submitted          | where preservation in situ is not possible, the OnSS and    |
|                                  | with the EIA.   | the TJB, only the TJB is located within an area where       |
|                                  |   | significant archaeology could be present and geophysical    |
|                                  | This is in accordance with The Infrastructure Planning  | survey has demonstrated that this is unlikely.              |
|                                  | (Environmental Impact Assessment) Regulations           |   |
|                                  | 2017 which states "The EIA must identify, describe      |   |
|                                  | and assess in an appropriate mannerthe direct and       |   |
|                                  | indirect significant impacts of the proposed            |   |
|                                  | development on material assets, cultural heritage       |   |
|                                  | and the landscape." (Regulation 5 (2d))                 |   |



# 20.4 Baseline Environment

# 20.4.1 Study Area

- 8. The ES references 'Order Limits'. This comprises the extent of the land subject to the application for development consent. It reflects an approximately 80m wide corridor around a centre line with a total length of approximately 70km (the Onshore ECC) which runs from the landfall to the OnSS, followed by a typically 60m wide corridor around a centre line with a length of approximately 4km (the 400kV cable corridor) which will connect the OnSS to a National Grid substation (NGSS) within the Connection Area<sup>2</sup>.
- 9. The study areas for this Chapter are set out in Volume 3, Appendix 20.1: Archaeological Desk Based Assessment (document reference 6.3.20.1) and Volume 3, Appendix 20.2: Heritage Statement (document reference 6.3.20.2).
- 10. The study area for the Archaeological DBA comprised a buffer of up to 2km from the Order Limits. This parameter was established through consultation with the Lincolnshire Historic Environment Officer through their scoping response. This study area is anticipated to provide a robust baseline in respect to the known archaeological potential of the footprint of the Order Limits where ground disturbance may occur.
- 11. The study area for the HS comprised a buffer of up to 5km from the Order Limits. This was established through consultation with the Lincolnshire Historic Environment Officer through their scoping response and includes an inner 2km buffer for assets of lower significance; the 2-5km buffer being utilised for Scheduled Monuments and Grade I and II\* Listed Buildings as well as RPGs and Conservation Areas.
- The study areas are shown on Figures 20.1.1.1-20.1.1.7 in Volume 3, Appendix 20.1: Archaeological Desk-Based Assessment, and Figures 20.1.2.1-20.1.2.18 in in Volume 3, Appendix 20.2: Heritage Statement.

# 20.4.2 Data Sources

- 13. The following sources were consulted during the preparation of the Archaeological DBA and HS:
- 14. Historic England's GIS datasets for all assets of an archaeological nature (Scheduled Monuments) included on the National Heritage List for England (NHLE);
  - Lincolnshire Historic Environment Record (HER);
  - Historic Landscape Character data;
  - Portable Antiquities Scheme (PAS) data;
  - historic cartographic sources at Lincoln Archives and Boston Library;
  - Historic England's Aerial Archaeology Mapping Explorer, for mapped archaeological earthworks and other features identified by the aerial investigation unit;

<sup>&</sup>lt;sup>2</sup> This is an indicative search area for the National Grid substation (NGSS)



- Historic England's Aerial Photo Explorer, for digitised photographs from the Historic England archive;
- Historic England's collection of aerial photography held at the National Archives (for selected sections of the Order Limits within ECC2);
- the Environment Agency's library of open access LiDAR data (DSM, DTM and point cloud);
- AOC Archaeology– geoarchaeological deposit model for the Order Limits;
- Magnitude Surveys magnetometer geophysical survey;
- Magnitude Surveys electromagnetic geophysical survey; and
- Land on the edge the landscape evolution of the Lincolnshire coastline (Green 2023).

# 20.4.3 Existing Environment - Archaeology

- 15. The Archaeological DBA (Volume 3, Appendix 20.1 (document reference 6.3.20.1)) sets out an archaeological background to understand the archaeological sensitivity of the Order Limits. The resources for assessment included HER & PAS data, a targeted site walkover survey, a LiDAR assessment and aerial photography review, a geoarchaeological deposit model including observations from site investigations, a magnetometer geophysical survey and an electromagnetic geophysical survey.
- 16. Alongside secondary and primary material including a review of historic mapping, these sources are considered to provide an extensive and robust baseline on which to consider archaeological potential/risk.
- 17. With regards to secondary material, a particular acknowledgement is extended to the work of Dr Caitlin Green which is referenced extensively within the Archaeological DBA.
- 18. The summary potential of the study area as indicated by the baseline is summarised below. For full details the reader is referred to document 6.3.20.1.

# 20.4.3.1 Overall Archaeological Potential Summary

- 19. The location of the Order Limits on a coastline which has seen significant periods of marine transgression and regression has resulted in complex and thick sequences of interchanging alluvium and peat, covering deeply buried prehistoric and later land surfaces.
- 20. Episodes of sea flooding since the end of the Mesolithic into the medieval period have deposited substantial deposits of mud flats across the entirety of the Project footprint. The first period of mudflat deposition occurred during the prehistoric period when the high-water mark became established 5-10km west of the current coastline (Green 2023). This earlier mudflat is referenced as deposit A1 in the deposit modelling referenced within the DBA. The coastline subsequently moved in and out with further episodes of sea transgression and regression which are anticipated to have affected all of the Order Limits at some point, with the southern part of the Order Limits under water or tidal from the late Mesolithic onwards.



- 21. A notable period of regression occurred in the Iron Age/Roman period when the high-water mark is known to have moved eastwards, placing some of the Order Limits which had been marshland or tidal since the Neolithic period, into dry land once more. However, the southern end of the Order Limits remained tidal or under water. A later phase of mud deposition, likely post Roman in date, is anticipated to have occurred when sea flooding into the Anglo Saxon and medieval periods caused the high-water mark to move west again. This is referenced within the deposit modelling set out within the DBA as deposit A2.
- 22. These sequences of dramatic depositional events have buried earlier archaeology at some significant depth across much of the Order Limits footprint with some areas, such as the southern end of the Order Limits being under water or tidal conditions from the Mesolithic to the Post Medieval period.
- 23. Medieval activity was made possible through the construction of sea walls with extant earthworks or below ground potential for sea walls identified in segments ECC1 & ECC11-13. These would have contributed to bringing the whole of the Order Limits into possible agricultural or pastoral activity apart from the southern extremity which was likely within the footprint of the Bicker Haven – ECC13/14. Settlement is known to have become established at extant historic villages within the vicinity of the Order Limits at this time and evidence for some deserted settlement extending within the Order Limits is known at ECCC2, ECC3 and ECC6. Evidence for significant moated sites is provided by two scheduled examples comprising Abbey Hills moated site (NHLE 1016044) adjacent to ECC7 and Multon Halll moated site (NHLE 1018584) located 100m west of ECC11.
- 24. Post medieval activity references land reclamation and agricultural activity across the entirety of the Project footprint. This includes some potential for remains of demolished farmsteads and other agricultural buildings. This period likely saw the first occupation of the southern parts of the route, specifically ECC13/14.
- 25. Table 20.3 presents a simplified illustration of archaeological potential with due regard to the outline construction proposals presented in Figure 3.4.7.

#### Prehistoric (up to 750BC)

- 26. Only at isolated and specific locations within the Order Limits would the Proposals have the potential to disturb stratigraphy of possible early prehistoric date. At these discrete locations worked flint of Palaeolithic and Mesolithic and possible short term features date may be present. These areas are at locations where the proposals have the potential to breach the base of the earliest mud flat deposit. This may occur at the following locations and assumes project parameters as set out in Table 20.4.
  - Trenchless crossing entry and exit pits in -
    - ECC1 (part of)
    - ECC2
    - ECC3 (part of)



- ECC5 (part of)
- ECC6 (part of)
- ECC7
- ECC8
- ECC9 (part of)
- ECC10 (part of)
- ECC11 (part of)
- ECC13 (part of)
- ECC14 (part of)
- Joint bays in -
  - ECC7 (part of)
  - ECC8 (part of)
- Open cut trenching in -
  - ECC7 (part of)
  - ECC8 (part of)
  - ECC10 (part of)
- OnSS piled foundations in excess of 10.5 BGL
- 27. Later prehistoric worked flint and wooden artefacts such as fishtraps and jetties may survive within the waterlogged stratigraphy of the earlier mudflat. These artefacts would represent episodes of transient activity from the Mesolithic period onwards. These may be present where the works could breach the later mud deposit and potentially affect stratigraphy of the earlier mud flat deposit. This may occur at the following locations and assumes worst case project parameters.
  - TJB in ECC1.
  - OnSS in ECC13.
  - Open cut trenching in
    - parts of ECC1, 9, 12, 13.
    - all of ECC2, 3, 4, 5, 6, 7, 8, 10, 11
  - Joint bays in
    - parts of ECC1, 2, 9, 13, 14
    - all of ECC3, 4, 5, 6, 7, 8, 10, 11, 12.
  - Trenchless entry and exit pits in -



- parts of ECC9, 13, 14
- all of ECC1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 12.

# Iron Age to Roman (750BC to c.410 AD)

- 28. Iron Age occupation/agricultural activity may be present sealed by the later mudflat and could be exposed where the works may breach the base of the later mudflat deposit. Based on the results of baseline assessment including the results of geophysical survey and the variable location of the Order Limits in relation to the high-water mark at this time it is anticipated that Iron Age occupation or agricultural activity could be present where the later mudflat (deposit A2) could be breached by the following works in.
  - Open cut trenching in
    - parts of ECC1
    - all of ECC2, 3, 4, 5, 6.
      - this includes area of archaeological interest 2 in ECC2.
  - Joint bays in
    - parts of ECC1, 2
      - this includes area of archaeological interest 2 in ECC2.
    - all of ECC3, 4, 5, 6
  - Trenchless entry and exit pits in
    - all of ECC1, 2, 3, 4, 5, 6
      - this includes area of archaeological interest 2 in ECC2.
- 29. Potential Roman occupation and agricultural activity may extend into the footprint of the Order Limits in segments ECC1-ECC10 reflecting marine regression which pushed the high-water mark east in the northern and central parts of the Order Limits. On the premise that these are covered by the later mudflats these would be affected where the works could breach the later mudflat in areas where the Roman high-water mark is anticipated to the east of the Order Limits. With regard to baseline assessment including the results of the geophysical survey this would potentially be restricted to works within the footprint of the following:
  - Open cut trenching in
    - parts of ECC1, 9.
    - all of ECC2, 3, 4, 5, 6, 7, 8, 10.
      - this includes area of archaeological interest 2 in ECC2 & area of archaeological interest 8 in ECC6.
  - Joint bays in
    - parts of ECC1, 2, 9



- this includes area of archaeological interest 2 in ECC2.
- all of ECC3, 4, 5, 6, 7, 8, 10.
  - this includes area of archaeological interest 8 in ECC6.
- Trenchless entry and exit pits in
  - all of ECC1, 2, 3, 4, 5, 6, 7, 8, 9, 10.
    - this includes area of archaeological interest 2 in ECC2, area of archaeological interest 8 in ECC6 and area of archaeological interest 12 ECC8.
- 30. Iron Age/Roman salterns could be possible within the footprint of the order Limits in segments ECC1-14. On the premise that these are covered by the later mudflats these would be within deposits breached by the following Project parameters. This includes AOP A1 of the deposit modelling plus areas north of this where the early tidal mud flat may be breached. With regards to the results of baseline assessment including the results of geophysical survey, salterns could be present at the following locations:
  - TJB in ECC1.
  - OnSS in ECC13.
  - Open cut trenching in
    - parts of ECC1, 9, 12, 13, 14.
    - all of ECC2, 3, 4, 5, 6, 7, 8, 10, 11.
      - this includes areas of archaeological interest 2 & 4 in ECC2, areas of archaeological interest 6 & 7 in ECC5 and other specific anomalies in ECC3.
  - Joint bays in
    - parts of ECC1, 2, 9, 13, 14.
    - all of ECC3, 4, 5, 6, 7, 8, 10, 11, 12.
      - this includes area of archaeological interest 2 in ECC2 and areas of archaeological interest 6 & 7 in ECC5 and other specific anomalies in ECC3.
  - Trenchless entry and exit pits in
    - parts of ECC9, 13, 14.
    - all of ECC1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 12.
      - this includes area of archaeological interest 2 in ECC2 and areas of archaeological interest 6 & 7 in ECC5 and other specific anomalies in ECC3.

# Anglo-Saxon (c.410 AD to 1066)

31. A wetter character to the central and northern parts of the route is likely to have returned during the Anglo-Saxon period when the sea levels encroached once more. This likely rendered the majority of the Project footprint marginal with settlement favouring slightly elevated land which



does not appear to have extended into the footprint of the Project. Some potential for agricultural/pastoral activity may extend to segments ECC2, 7, 8 & 9. Salterns may be present in segments ECC1-14 (inclusive).

## Medieval (1066-1485)

32. Areas identified through geophysical survey which could include medieval activity comprise areas of archaeological interest 1 (ECC1), 2 (ECC2), 3 (ECC2), 4 (ECC2), 5 (ECC3), 6 (ECC5), 8 (ECC5/6), 9 (ECC7), 10 (ECC6), 11 (ECC9/10) and potentially 12 (ECC8). Conditions would have allowed the continued presence of salterns along tidal creeks in most of the Order Limits except potentially large parts of segments ECC2-ECC4. Saltern geophysical anomalies which could be of medieval date are located in areas of archaeological interest 6 (ECC5) & 7 (ECC5). Other geophysical anomalies in area of archaeological interest 11 (ECC10) could reference salt making of this date.

## Post Medieval (1485-modern)

33. Post medieval activity references land reclamation and agricultural activity across the entirety of the Project footprint. This includes some potential for remains of demolished farmsteads and other agricultural buildings. This period likely saw the first occupation of the southern parts of the route, specifically ECC13/14. Areas identified through geophysical survey which could include post medieval remains comprise areas of archaeological interest 1 (ECC1), 8 (ECC6) and 12 (ECC8).

#### Peat and Palaeochannels

- 34. Also, of note, are the potential deposits of peat which could be present between the tidal mudflats or interleaved within them. Peat deposits could potentially be present within the Project parameters bar the haul roads and the compounds across the Order Limits. The deposit modelling identifies particularly thick areas of peat deposits (Annex 18 Figure 47-49). The thickness of these deposits likely infers where the most stable wetland habitats were located. These areas are where the potential for organic preservation may be greater. Thinner deposits located elsewhere may infer less stable areas or areas where erosion caused by inter-tidal process has affected the accumulation and survival of peat. The electromagnetic geophysical survey may be useful in indicating areas where the preservation of organic material in areas of peat is most likely. These are high conductivity areas shown in blue on the geophysical figures (Annex 19).
- 35. The peat has the potential to hold the same artefacts discussed for the waterlogged deposits of mud, namely fishtraps, jetties and trackways but also (alongside the waterlogged deposits in general) deposits with paleoenvironmental potential which could inform on past landscapes and environments. The thicker areas of peat referencing more stable areas of wetland, not affected by more energetic tidal or fluvial processes, would hold a greater potential. The deposits associated with the palaeochannels across the Order Limits could also inform on landscape change over time and depositional sequences from the prehistoric period onwards.



Table 20.3: Archaeological Potential Summary Table

| Project Parameter | Prehistoric<br>Potential*        | Roman Potential*       | Anglo Saxon<br>Potential* | Medieval<br>Potential* | Post Medieval<br>Potential*        | Peat &<br>Palaeochannels |
|-------------------|----------------------------------|------------------------|---------------------------|------------------------|------------------------------------|--------------------------|
| ECC1              |                                  |                        |                           |                        |                                    |                          |
| TJB               | ✓ T/S                            | ✓S                     | S                         | A (AAI 1?)             | А                                  | ✓                        |
| TRENCHLESS exit   | ✓ P/A/T/S                        | ✓ P/A/S                | ]                         | S (AAI 1?)             | <b>PMF</b><br>(MLI118799)          |                          |
| TRENCHLESS entry  | ✓ P/A/T/S                        | ✓ P/A/S                | ]                         | SW                     | (WEIT10799)                        |                          |
| Open Cut          | ✓ p/a/t/s                        | ✓ p/a/s                |                           |                        |                                    |                          |
| JB                | ✓ p/a/t/s                        | ✓ p/a/s                |                           |                        |                                    |                          |
| HR                | X                                | X                      |                           |                        |                                    |                          |
| Compounds         | Х                                | X                      | ]                         |                        |                                    |                          |
| ECC2              |                                  |                        |                           |                        |                                    |                          |
| TRENCHLESS exit   | ✓ P/A/T/S (AAI 2)                | ✓ <b>P/A/S</b> (AAI 2) | S                         | A                      | A                                  | $\checkmark$             |
| TRENCHLESS entry  | <b>√P/A/</b> T/ <b>S</b> (AAI 2) | ✓ <b>P/A/S</b> (AAI 2) | A                         | <b>P</b> (AAI 4)       |                                    |                          |
| Open Cut          | <b>√P/A/</b> T/ <b>S</b> (AAI 2) | ✓ P/A/S (AAI 2)        | _ P                       |                        |                                    |                          |
| JB                | <b>√p/a/t/s</b> (AAI 2)          | ✓ p/a/s (AAI 2)        |                           |                        |                                    |                          |
| HR                | X                                | X                      |                           |                        |                                    |                          |
| Compounds         | X                                | X                      |                           |                        |                                    |                          |
| ECC3              |                                  |                        |                           |                        |                                    |                          |
| TRENCHLESS exit   | ✓ P/A/T/ <b>S</b>                | ✓ P/A/ <b>S</b>        | S                         | A                      | A                                  | ✓                        |
| TRENCHLESS entry  | ✓ P/A/T/ <b>S</b>                | ✓ P/A/ <b>S</b>        | ]                         | Р                      | M                                  |                          |
| Open Cut          | ✓ P/A/T/ <b>S</b>                | ✓ P/A/ <b>S</b>        | ]                         |                        | <b>PMF</b> (LiDAR 16) and windmill |                          |
| JB                | ✓ P/A/T/ <b>S</b>                | ✓ P/A/ <b>S</b>        | ]                         |                        |                                    |                          |
| HR                | X                                | X                      |                           |                        |                                    |                          |



| Project Parameter | Prehistoric<br>Potential*         | Roman Potential*               | Anglo Saxon<br>Potential* | Medieval<br>Potential*    | Post Medieval<br>Potential* | Peat &<br>Palaeochannels |
|-------------------|-----------------------------------|--------------------------------|---------------------------|---------------------------|-----------------------------|--------------------------|
| Compounds         | Х                                 | Х                              |                           |                           |                             |                          |
| ECC4              |                                   |                                | ·                         | ·                         |                             |                          |
| TRENCHLESS exit   | ✓ P/A/T/S                         | ✓ P/A/S                        | S                         | A                         | A                           | $\checkmark$             |
| TRENCHLESS entry  | ✓ P/A/T/S                         | ✓ P/A/S                        |                           | S                         |                             |                          |
| Open Cut          | ✓ P/A/T/S                         | ✓ P/A/S                        |                           |                           |                             |                          |
| JB                | ✓ P/A/T/S                         | ✓ P/A/S                        |                           |                           |                             |                          |
| HR                | X                                 | X                              |                           |                           |                             |                          |
| Compounds         | X                                 | X                              |                           |                           |                             |                          |
| ECC5              |                                   |                                |                           |                           |                             |                          |
| TRENCHLESS exit   | ✓ P/A/T/ <b>S</b> (AAI 6?<br>&7?) | ✓ P/A/ <b>S</b> (AAI<br>6?&7?) | S                         | A<br><b>S</b> (AAI 6?&7?) | A<br>PMF                    | *                        |
| TRENCHLESS entry  | ✓ P/A/T/ <b>S</b> (AAI<br>6?&7)   | ✓ P/A/ <b>S</b> (AAI<br>6?&7?) |                           |                           | (MLI120254)                 |                          |
| Open Cut          | ✓ P/T/ <b>S</b> (AAI<br>6?&7?)    | ✓ P/A/ <b>S</b> (AAI 6?&7?)    |                           |                           |                             |                          |
| JB                | ✓ P/T/ <b>S</b> (AAI<br>6?&7?)    | ✓ P/A/ <b>S</b> (AAI<br>6?&7?) | _                         |                           |                             |                          |
| HR                | Х                                 | X                              | _                         |                           |                             |                          |
| Compounds         | Х                                 | X                              | _                         |                           |                             |                          |
| ECC6              | •                                 |                                | •                         | •                         |                             |                          |
| TRENCHLESS exit   | ✓ P/A/T/S                         | ✓ P/ <b>A</b> /S (AAI 8?)      | S                         | A (AAI 8?)                | A (AAI 8?)                  | <ul> <li>✓</li> </ul>    |
| TRENCHLESS entry  | ✓ P/A/T/S                         | ✓ P/ <b>A</b> /S (AAI 8?)      |                           | S                         | PMF                         |                          |
| Open Cut          | ✓ P/A/T/S                         | ✓ P/ <b>A</b> /S (AAI 8?)      |                           | <b>P</b> (10)             | (MLI124352)                 |                          |
| JB                | ✓ P/A/T/S                         | ✓ P/ <b>A</b> /S (AAI 8?)      |                           |                           |                             |                          |



| Project Parameter | Prehistoric<br>Potential* | Roman Potential*           | Anglo Saxon<br>Potential* | Medieval<br>Potential* | Post Medieval<br>Potential* | Peat &<br>Palaeochannels |
|-------------------|---------------------------|----------------------------|---------------------------|------------------------|-----------------------------|--------------------------|
| HR                | Х                         | Х                          |                           |                        |                             |                          |
| Compounds         | X                         | Х                          |                           |                        |                             |                          |
| ECC7              |                           |                            |                           |                        | ·                           |                          |
| TRENCHLESS exit   | ✓ T/S                     | ✓ P/A/S                    | S                         | A                      | A                           | $\checkmark$             |
| TRENCHLESS entry  | ✓ T/S                     | ✓ P/A/S                    | A                         | S                      |                             |                          |
| Open Cut          | ✓ T/S                     | ✓ P/A/S                    |                           | <b>P</b> (AAI 9?)<br>M |                             |                          |
| JB                | ✓ T/S                     | ✓ P/A/S                    | 7                         |                        |                             |                          |
| HR                | X                         | X                          | 7                         |                        |                             |                          |
| Compounds         | X                         | X                          |                           |                        |                             |                          |
| ECC8              |                           |                            | -                         |                        | -                           |                          |
| TRENCHLESS exit   | ✓ T/S                     | ✓ P <b>/A</b> /S (AAI 12?) | S                         | <b>A</b> (AAI 12?)     | A                           | $\checkmark$             |
| TRENCHLESS entry  | ✓ T/S                     | ✓ P <b>/A</b> /S (AAI 12?) | A                         | S                      | <b>PMF</b><br>(MLI124527)   |                          |
| Open Cut          | ✓ T/S                     | ✓ P <b>/A</b> /S           |                           |                        | (ML124327)<br>(AAI 12?)     |                          |
| JB                | ✓ T/S                     | ✓ P <b>/A</b> /S           |                           |                        | ,                           |                          |
| HR                | X                         | X                          |                           |                        |                             |                          |
| Compounds         | X                         | X                          |                           |                        |                             |                          |
| ECC9              | ·                         |                            |                           |                        | ·                           |                          |
| TRENCHLESS exit   | t/s                       | ✓ P/A/S                    | S                         | <b>A</b> (AAI 11?)     | A                           | $\checkmark$             |
| TRENCHLESS entry  | t/s                       | ✓ P/A/S                    | A                         | S                      | <b>PMF</b>                  |                          |
| Open Cut          | t/s                       | ✓ p/a/s                    | 1                         |                        | (MLI124196)<br>LiDAR 35     |                          |
| JB                | t/s                       | ✓ p/a/s                    | 1                         |                        | LiDAR 37                    |                          |
| HR                | Х                         | Х                          | 1                         |                        |                             |                          |
| Compounds         | Х                         | Х                          | 1                         |                        |                             |                          |



| Project Parameter | Prehistoric<br>Potential* | Roman Potential* | Anglo Saxon<br>Potential* | Medieval<br>Potential* | Post Medieval<br>Potential* | Peat &<br>Palaeochannels |
|-------------------|---------------------------|------------------|---------------------------|------------------------|-----------------------------|--------------------------|
| ECC10             |                           |                  |                           |                        |                             |                          |
| TRENCHLESS exit   | ✓ T/S                     | ✓ P/A/S          | S                         | <b>A</b> (AAI 11?)     | A                           | ✓                        |
| TRENCHLESS entry  | ✓ T/S                     | ✓ P/A/S          |                           | <b>S</b> (AAI 11?)     | PMF<br>(MLI124228/LiDA      |                          |
| Open Cut          | ✓ T/S                     | ✓ P/A/S          | _                         |                        | R 39)                       |                          |
| JB                | ✓ T/S                     | ✓ P/A/S          | _                         |                        |                             |                          |
| HR                | Х                         | Х                | _                         |                        |                             |                          |
| Compounds         | Х                         | Х                | _                         |                        |                             |                          |
| ECC11             | L                         |                  |                           | L                      |                             | 1                        |
| TRENCHLESS exit   | ✓ T/S                     | ✓S               | S                         | SW                     | А                           | <ul> <li>✓</li> </ul>    |
| TRENCHLESS entry  | ✓ T/S                     | ✓S               |                           | S<br>A                 |                             |                          |
| Open Cut          | ✓ T/S                     | √ S              | _                         |                        |                             |                          |
| JB                | ✓ T/S                     | ✓S               |                           |                        |                             |                          |
| HR                | Х                         | Х                |                           |                        |                             |                          |
| Compounds         | Х                         | Х                | _                         |                        |                             |                          |
| ECC12             | L                         | <b>I</b>         | •                         | -                      | -                           |                          |
| TRENCHLESS exit   | ✓ T/S                     | ✓S               | S                         | SW                     | A                           | <ul> <li>✓</li> </ul>    |
| TRENCHLESS entry  | ✓ T/S                     | ✓S               |                           | S                      | PMF<br>(MLI123126/LiDA      |                          |
| Open Cut          | ✓ t/s                     | √ s              |                           | A                      | R 51)                       |                          |
| JB                | ✓ T/S                     | √ S              |                           |                        |                             |                          |
| HR                | Х                         | X                |                           |                        |                             |                          |
| Compounds         | Х                         | X                |                           |                        |                             |                          |
| ECC13             | •                         |                  |                           |                        | •                           |                          |
| OnSS              | ✓ T/S                     | ✓S               | S                         | SW                     | A                           | $\checkmark$             |



| Project Parameter | Prehistoric<br>Potential*   | Roman Potential* | Anglo Saxon<br>Potential*  | Medieval<br>Potential* | Post Medieval<br>Potential*             | Peat &<br>Palaeochannels |
|-------------------|---|------------------|--|------------------------|---|--------------------------|
| TRENCHLESS exit   | ✓ t/s   | ✓ s              |  | S                      |   |                          |
| TRENCHLESS entry  | ✓ t/s   | √ s              |  |                        |   |                          |
| Open Cut          | ✓ t/s   | √ s              |  |                        |   |                          |
| JB                | ✓ t/s   | √ s              |  |                        |   |                          |
| HR                | X   | X                |  |                        |   |                          |
| Compounds         | Х   | X                |  |                        |   |                          |
| ECC14             |   |                  | •  |                        |   |                          |
| TRENCHLESS exit   | ✓ t/s   | √ s              | S  | SW                     | А                                       | ✓                        |
| TRENCHLESS entry  | ✓ t/s   | √ s              |  | S                      | <b>TW</b><br>(MLI22401/LiDA             |                          |
| Open Cut          | ✓ t/s   | √ s              | -  |                        | (MEI22401/EIDA<br>R 59)<br>PMF LiDAR 60 |                          |
| JB                | ✓ t/s   | √ s              |  |                        |   |                          |
| HR                | Х   | X                |  |                        |   |                          |
| Compounds         | Х   | X                |  |                        |   |                          |
| A16               |   | ·                | ·  |                        | ·                                       | ·                        |
| Compound          | Х   | Х                | A  | A                      | A                                       | X                        |
|                   | <ul> <li>P = permanent activity</li> <li>A = agricultural/pastoral activity</li> <li>T = transient activity</li> <li>S = salterns</li> <li>PL = palaeochannel</li> <li>PT = peat</li> <li>X = no potential</li> <li>*capital letters reference general segment</li> <li>wide potential for specified project</li> <li>parameter. Lowercase letters represent</li> </ul> |                  | <ul> <li>P = permanent activity (occupation)</li> <li>A = agricultural/pastoral activity</li> <li>S = salterns</li> <li>PL = palaeochannel</li> <li>PT = peat</li> <li>SW = sea walls</li> <li>PMF = post medieval farmstead with HER 'MLI' reference cited</li> </ul> |                        |   | ence cited               |
|                   |   |                  | M = mill identifie   |                        |   |                          |



| Project Parameter | Prehistoric<br>Potential*                             | Roman Potential*  | Anglo Saxon<br>Potential*   | Medieval<br>Potential* | Post Medieval<br>Potential* | Peat &<br>Palaeochannels                          |
|-------------------|---|---|---|------------------------|-----------------------------|---|
|                   | restricted potential due to depths of later mudflats. |   | LiDAR = LiDAR feature identified in the DBA<br>X = no potential<br>*capital letters reference general segment wide potential. |                        |                             |   |
|                   | unless morphology                                     | s identified sites (geoph<br>is clear and anomalies<br>jical interest with a '?' if | concur with other I   | baseline data, ho      |                             | ophysical anomalies<br>brackets) do reference the |



# 20.4.4 Existing Environment - Cultural Heritage

- 36. Cultural Heritage receptors are typically those that may be affected by changes in 'setting', as opposed to archaeological receptors typically affected by direct impacts referenced in the Section 20.4.3.
- 37. Cultural Heritage receptors primarily include assets of a built heritage nature, designated and non-designated. However, other types of asset may also be sensitive to setting change, particularly if they have earthworks and are tangible features where understanding is clearly evidenced by visible landscape features or associated earthworks.
- 38. Also considered under the 'Cultural Heritage' umbrella are Historic Landscape Character (HLC) and hedgerows important under the historic criteria of the Hedgerow Regulations. HLC can be affected by direct and indirect impacts, whilst hedgerows are typically affected by direct impacts.
- 39. The HS presented within Volume 3, Appendix 20.2 (document reference 6.3.20.2) sets out the designated and non-designated heritage assets within a search area of 2km-5km from the Order Limits for which consideration of sensitivity was given. These are shown on Figure 20.2.1 and 20.2.2.
- 40. The assets specified below represent the worst-case scenario of the number of assets potentially affected by the Project, primarily through changes in setting but in respect to certain assets such as HLC and hedgerows physical impact too.

## 20.4.4.1 Scheduled Monuments

- 41. The following is a list of scheduled monuments which are located within the study area:
  - ECC6 Decoy Wood decoy pond (NHLE 1019098) 30m west of the Order Limits.
  - ECC7 Abbey Hills Moated Site (NHLE 1016044) adjacent to Order Limits (compound and temporary access).
  - ECC8 King's Hill Motte and bailey castle (NHLE 1018398) 500m north Order Limits.
  - ECC11 Moulton Hall moated site (NHLE reference 1018584) 110m west of the Order Limits.
  - ECC13/14 Wykeham Chapel (NHLE reference 1019096) 1.4km south-west of Order Limits.
  - ECC13/14 Pinchbeck Engine (NHLE reference 1004966) 2.8km south-west.
  - ECC14 Elloe Stone (NHLE reference 1005037) 3.3km south-east of Order Limits.

#### 20.4.4.2 Listed Buildings

- 42. The following is a list of listed buildings which are located within the study area:
  - ECC9 Grade I Listed Building Church of St James (NHLE 1308415) 400m north of Order Limits.
  - ECC10 Grade II Listed Building Coupledyke Hall (NHLE 1308426) 500m south of the Order Limits.



- ECC12 Grade II Listed Building Suffolk House (NHLE reference 1062020) 180m south of the Order Limits.
- ECC12 Grade II Listed Building Middlecott's Hospital (NHLE reference 1317493) 25m west of Order Limits.
- ECC13 Grade I Listed Building The Wykeham Chapel of St Nicholas (NHLE reference 1064471) – 1.6km south-west of the Order Limits.
- ECC13 Grade I Listed Building Church of St Lawrence (NHLE reference 1064403) 3.6km west of the Order Limits.
- ECC13/14 Grade II Listed Building Pigeoncote to the south of Wraggmarsh House (NHLE reference 1064477) 80m from the Order Limits.
- ECC13/14 Grade II Listed Building The Gables (NHLE reference 1146546) 100m west of the Order Limits.
- ECC13/14 Grade II Listed Building Wraggmarsh House Farmhouse (NHLE reference 1147603) – 90m east of Order Limits

#### 20.4.4.3 Conservation Areas

43. The following is a list of Conservation Areas which are located within the study area:

- ECC11 & A6 compound Frampton 520m west of Order Limits.
- ECC13 Gosberton 2.7km west of Order Limits.
- ECC14 Moulton 2.7km south of Order Limits.

#### 20.4.4.4 Non-Designated Farmhouses

44. The following is a list of non-designated farmhouses which are located within the study area:

- ECC1 Lowgate Farm (HER reference MLI118859) 110m north of the Order Limits.
- ECC1 Chestnut Farm (HER reference MLI118860) 75m east of the Order Limits.
- ECC1 Quaker's Hill Farmhouse (MLI118805) 290m east of the Order Limits.
- ECC2 Field Farm (MLI118858) 55m west of the Order Limits.
- ECC2 un-named farmstead (MLI118865) 170m east of the Order Limits.
- ECC2 Malt Farm (MLI118869) 160m west of the Order Limits.
- ECC2 Slackholme End House Farm (MLI118880) 150m west of the Order Limits.
- ECC2 Jasmine Cottage (MLI118883) 275m west of the Order Limits.
- ECC2 Willcox Farm (MLI119832) 260m east of the Order Limits.
- ECC2 The Grange (MLI41973) 240m east of the Order Limits.
- ECC3 Fir Tree Farm (MLI119851) 145m east of the Order Limits.
- ECC3 Bristol Farm (MLI119871) 190m south of the Order Limits.
- ECC4 Rookery Farm (MLI120243) 215m north of the Order Limits.
- ECC4 Rivulet House (MLI120244) –270m west of the Order Limits.



- ECC4 Bank House (MLI120267) 250m south-west of the Order Limits.
- ECC5 Sycamore Lodge (MLI120271)– 190m south-west of the Order Limits.
- ECC6 Decoy Farm (MLI124366)– 260m west of the Order Limits.
- ECC7 Willoughby Farm (MLI1124362)– 70m north-west of the Order Limits.
- ECC7 Avenue Farm (MLI1124368)– 90m west of the Order Limits.
- ECC7 Walnut Farm (MLI1124369)– 170m south of the Order Limits.
- ECC7 Bleak House (MLI124370)– 110m south of the Order Limits.
- ECC7 Hawthorn Farm (MLI124441)– 80m south of the Order Limits.
- ECC8 Farmstead (MLI124437)– 70m south of the Order Limits.
- ECC8 Farmstead (MLI124438)– 20m west of the Order Limits.
- ECC8 Farmstead (MLI124526) 160m west of the Order Limits.
- ECC8 Old Leake Farmstead (MLI124541)– 100m north of the Order Limits.
- ECC8 Faunt Bridge Cottage (MLI124506)– 90m west of the Order Limits.
- ECC9 Swinedike Farm (MLI124199)– 45m east of the Order Limits.
- ECC9 Reesons Farmstead (MLI124216)– 215m east of the Order Limits.
- ECC9 Ings Farm (MLI124255) 210m west of the Order Limits.
- ECC9 Little Beeches (MLI124256)– 260m west of the Order Limits.
- ECC11 Marsh Farm (MLI121210) 170m south of the Order Limits.
- ECC11- Sandholme Farm (MLI123089)– adjacent to the Order Limits.
- ECC11- White House Farm (MLI123119)– 160m west of the Order Limits.
- ECC12 Lloyds Farm (MLI123128)– 120m north of the Order Limits.
- ECC13 Hills Farm (MLI122565) adjacent to the Order Limits.
- ECC13 Old Three Tuns Farm (MLI122568)– 10m south of the Order Limits.
- ECC13 un-named farm (MLI122577)– 300m south of the Order Limits.
- ECCC13 Woad farm (MLI122578)– adjacent to the Order Limits.
- ECCC13 Welland House farm (MLI122570)– 135m north of the Order Limits.
- ECC13 Vicarage Farm (MLI122878)– 20m north of the Order Limits.
- ECC13 Surfleet farm (MLI122569)– 120m west of the Order Limits.
- ECC13 un-named farm (MLI122909)– 240m east of the Order Limits.
- ECC13 Manor Farm (MLI122876) 20m north of the Order Limits.
- ECC14 Bottom Yard (MLI122915) 150m east of the Order Limits.
- A16 Compound Old Farm (MLI121208)– 90m west of the Order Limits.



## 20.4.4.5 Non-Designated Medieval Earthworks/Enclosures

- 45. The following is a list of non-designated medieval earthworks/enclosures which are located within the order limits:
  - ECC2 potential remains of medieval enclosures within the Order Limits (HER reference MLI98638).
  - ECC2 potential remains of medieval enclosures and a field system within the Order Limits (HER reference MLI98639).

#### 20.4.4.6 Non-Designated Sea-banks/Drains

- 46. The following is a list of non-designated sea-banks/drain which are located within or abutting the order limits:
  - ECC1 sea bank in Anderby within the Order Limits (HER reference MLI88782)
  - ECC11 two sections of sea wall earthworks including the Roman Bank (MLI97710) crossing the northern part of the segment and another section to the south of Multon Hall Scheduled Monument abutting the Order Limits.
  - ECC12 –two sections of sea wall/drain earthworks at Hundred Acre Farm and through the southern part of the segment – within the Order Limits.
  - ECC13 sea wall earthworks (site observations) abutting the Order Limits.

## 20.4.4.7 Non-Designated Deserted Medieval Villages

- 47. The following is a non-designated deserted medieval village located within the order limits:
  - ECC2 potential remains of Slackholme village within the Order Limits (HER reference MLI99418).

#### 20.4.4.8 Non-Designated – Medieval Roads

- 48. The following is a list of non-designated medieval roads which are located within the order limits:
  - ECC6 possible medieval drove road (MLI90647) within the Order Limits.
  - ECC9 possible medieval road (MLI13280) within the Order Limits.

#### 20.4.4.9 Non-Designated – Other

- 49. The following is a list of non-designated other features which are located within the order limits:
  - ECC7 possible mill mound and pond (MLI41778) within the Order Limits.
  - General Order Limits HLC character areas and hedgerows important under the historic criteria.

# 20.4.5 Future Baseline

50. In a do-nothing scenario any archaeological receptors listed above would remain within a buried horizon or within above ground earthworks. These would be subject to natural erosion and drainage fluctuations. Arable activity may cause manmade erosion in some instances where remains are exposed or shallow.



51. In a do-nothing scenario any setting elements that currently contribute towards the significance of the cultural heritage assets listed above would be retained.

# **20.5** Basis of Assessment

- 20.5.1 Scope of the Assessment
- 52. The following impacts have been scoped into this assessment:
  - Construction:
    - Impact 1: Permanent direct impacts to buried archaeological remains through the construction of the landfall, onshore ECC, OnSS and 400Kv cable corridor.
    - Impact 2: Temporary indirect impacts to designated and non-designated heritage assets through setting change caused by the construction of the ECC and OnSS.
    - Impact 3: Temporary direct impact to non-designated heritage assets through the construction of the landfall, onshore ECC, OnSS and 400Kv cable corridor.
  - Operation and maintenance:
    - Impact 1: Permanent indirect impacts to designated and non-designated heritage assets through setting change caused by the presence of the OnSS.
  - Decommissioning:
    - Impact 1: Temporary indirect impacts to designated and non-designated heritage assets through setting change caused by the demolition of the OnSS.
    - Impact 2: Permanent direct impacts to buried archaeological remains through the removal of infrastructure.
- 53. In line with the Scoping Opinion (The Planning Inspectorate, 2022), and based on the receiving environment, expected parameters of the Project (Chapter 3 (document reference 6.1.3)), and expected scale of impact/potential for a pathway for effect on the environment, the following impacts have been scoped out of the assessment:
  - Construction:

- Transboundary heritage effects.
- Operation and maintenance:
  - Indirect impacts to designated and non-designated heritage assets through setting change caused by the offshore turbines and ORCPs.

# 20.5.2 Realistic Worst-Case Scenario

- 54. The following section identifies the MDS in environmental terms, defined by the project design envelope. The MDS is outlined in Chapter 3 Project Description (document reference 6.1.3) and the following parameters are supported by the following figure that can be found in ES Volume 2:
  - Figure 3.4 Indicative Onshore Infrastructure (document reference 6.2.3.4)



This figure outlines the indicative infrastructure layers as well as associated IDs that have been assigned to each infrastructure element for reference throughout this chapter and the ES. Where an ID is relevant to this figure it is presented in square brackets e.g. [PCC-1].



## Table 20.4: Maximum design scenario for Onshore Archaeology and Heritage for the Project alone

| Potential effect Maxi  | imum adverse scenario assessed  | Justification  |
|--|---|--|
| Construction   |   |  |
| Impact 1: Permanent<br>direct impacts to buried<br>archaeological remains<br>through the construction<br>of the ECC, OnSS, and<br>National grid Connection<br>area including the 400kV<br>connection.Land<br>o<br>o<br>o<br>OnshOnsh | <ul> <li>A Landfall Compound [PCC-1] up to 70,000m<sup>2</sup> located to the west of Roman Bank and comprising up to six Transition Joint Bays (TJBs) each with a maximum area of 207m<sup>2</sup> and total area of 1,242m<sup>2</sup>.</li> <li>A temporary Duct Storage Compound (40,000m<sup>2</sup>) [SCC-2], where in the event of a pushdown installation (Chapter 3 Project Description), the ducts for the landfall installation will be assembled and stored.</li> <li>hore ECC &amp; 400Kv cable corridor</li> <li>The onshore ECC comprises a typically 80m working width, however the corridor widens at landfall, major trenchless crossing locations and at the OnSS.</li> <li>The 400kV cable corridor is a typically 60m working width. The corridors each comprise up to 12 cables divided between up to 4 circuits each set in a separate trench each 5m wide and of variable depth.</li> <li>The working width of the onshore ECC and 400Kv cable corridor also includes in places a typically 6.8m wide haul road (up to 9m at passing places) and stockpiling areas associated with cable construction.</li> <li>The onshore ECC is approximately 70km in length and includes up to 680 joint bays, the 400kV cable corridor is approximately 4km in length and includes up to 20 joint bays with a maximum footprint of 234m2 and up to 2.5m deep.</li> <li>Up to 8 PCCs and 20 SCCs will be required across the onshore Order limits. The land take for each of the Primary Construction Compounds (PCCs) will be up to 45,000m<sup>2</sup> and for Secondary Construction Compounds (SCCs) will be up to 4,800m<sup>2</sup>.</li> <li>Trenchless techniques will be deployed in 216 locations and the remainder of the onshore ECC will be constructed using open cut trenching.</li> </ul> | The maximum dimensions of<br>disturbance will allow for the<br>worst-case scenario of<br>disturbance in the assessment<br>of impact to potential buried<br>archaeological remains. |



| Potential effect                              | ntial effect Maximum adverse scenario assessed   |   |  |  |
|---|--|---|--|--|
|   | locations in the Project's design basis with up to 321 CICs. CICs will be of variable size with a footprint of up to 4,000m <sup>2</sup> .   |   |  |  |
|   | The cut for the cable trenches is anticipated to be a maximum of 3m bgl and 5m wide at the surface – 1.5m wide at the base.  |   |  |  |
|   | <ul> <li>Trenchless entry pits are expected to be a maximum footprint of 200m<sup>2</sup> to a depth of<br/>6m.</li> </ul>   |   |  |  |
|   | OnSS   |   |  |  |
|   | An OnSS Primary Construction Compound (OnSS PCC) [PCC-29] with an area of up to<br>40,000m <sup>2</sup> to be located to the northeast and south of the OnSS.  |   |  |  |
|   | <ul> <li>Once the OnSS PCC is reinstated, a portion (5,400m<sup>2</sup>) of this area will be retained for<br/>an additional period of 15 months.</li> </ul>   |   |  |  |
|   | Access route from the A16 at the Newlands Road junction, where there will be an<br>OnSS Security & Logistics Compound [PCC-30] with a maximum footprint of 2,400<br>m <sup>2</sup> . A permanent access road from Surfleet Bank into the OnSS will be up to 8m wide<br>and designed to provide access throughout the operational life of the substation. |   |  |  |
|   | <ul> <li>Air Insulated Switchgear (AIS) and Gas Insulated Switchgear (GIS) options in the<br/>design envelope:</li> </ul>  |   |  |  |
|   | <ul> <li>GIS OnSS with a footprint of approximately 270m x 268.5m (72,600m2)<br/>footprint and maximum height of buildings / equipment at 16.5m.</li> </ul>  |   |  |  |
|   | <ul> <li>AIS OnSS with a footprint of approximately 285m x 325m (144,000m2) and<br/>maximum height of height of buildings / equipment at 13m.</li> </ul>   |   |  |  |
|   | <ul> <li>Disturbance through tree planting, boundary fencing, and SUDS with depths of<br/>disturbance extending to 0.4-0.5m.</li> </ul>  |   |  |  |
| Impact 2: Temporary                           | Construction activity would predominantly be anticipated to extend across a 12-hour working  | Consideration of all potential effects on the sensory |  |  |
|   |  |   |  |  |
| designated and non-<br>designated heritage    |  |   |  |  |
| assets through setting                        | and through anti-  |   |  |  |
| change caused by the construction of the ECC, | <ul><li>The creation of spoil mounds resulting in visual change; and</li><li>Light spillage from any temporary lighting required during Winter months.</li></ul>   | understanding of significance.                        |  |  |



| Potential effect  | Maximum adverse scenario assessed  | Justification   |
|---|--|---|
| OnSS, and National Grid connection area.  | Direct impact to one part of an asset affecting the 'setting' of other parts for example breach<br>or severance of component parts (temporary nature assumes reinstatement).   |   |
| Impact 3: Temporary<br>direct impact to non-<br>designated heritage<br>assets through the<br>construction of the<br>landfall, onshore ECC ,<br>OnSS and 400Kv cable<br>corridor | As per Impact 1  | The maximum dimensions of<br>disturbance will allow for the<br>worst-case scenario of<br>disturbance in the assessment<br>of impact to hedgerows<br>important under the historic<br>criteria and Historic Landscape<br>Character. |
| Operation and Maintenan   | ce   |   |
| Impact 1: Permanent<br>indirect impacts to<br>designated and non-<br>designated heritage<br>assets through setting<br>change caused by the<br>presence of the OnSS              | <ul> <li>The Project would result in the presence of the following elements which could be located within the setting of a cultural heritage receptor:</li> <li>OnSS Gas Insulated building- the permanent above ground infrastructure would extend to an anticipated maximum of 16.5m above ground level. All other equipment (e.g., transformers, switchgear) would not exceed a height of 19m above ground level.</li> <li>OnSS Air Insulated building- the permanent above ground infrastructure would extend to an anticipated maximum of 13m above ground level.</li> <li>OnSS - tree planting to screen</li> <li>OnSS - lighting.</li> <li>OnSS - fencing and signage.</li> </ul> | These elements represent all<br>the above ground elements<br>which would permanently<br>alter the character of the area<br>and have the potential to<br>effect important elements of<br>an asset's setting.                       |
| Decommissioning   |  |   |
| Impact 1: Temporary<br>indirect impacts to<br>designated and non-<br>designated heritage<br>assets through setting<br>change caused by the<br>demolition of the OnSS            | The visible removal of structures would be restricted to:<br>OnSS – removal of the OnSS.   | The decommissioning phase of<br>the Project would cause a<br>visual change at the OnSS only.  |



| Potential effect       | otential effect Maximum adverse scenario assessed   |                               |
|------------------------|---|-------------------------------|
|                        | As referenced by Table 20.4, ground disturbance associated with the decommissioning would       | 0                             |
|                        | be anticipated to be entirely within the footprint of disturbance caused by the construction of | works would be anticipated to |
| archaeological remains | the Project.  | cause ground disturbance in   |
| through the removal of |   | the same areas affected by    |
| infrastructure         |   | construction.                 |



# 20.5.3 Embedded Mitigation

55. Mitigation measures that were identified and adopted as part of the evolution of the Project design (embedded into the Project design) and that are relevant to Onshore Archaeology and Cultural Heritage are listed in Table 20.5. General mitigation measures, which would apply to all parts of the Project, are set out first. Thereafter mitigation measures that would apply specifically to Onshore Archaeology and Cultural Heritage issues associated with the ECC and OnSS are described separately.

Table 20.5: Embedded mitigation relating to Onshore Archaeology and Cultural Heritage

| Project phase          | Mitigation measures embedded into the project design  |
|------------------------|---|
| General                |   |
| Project design         | <ul> <li>Careful routing of the onshore ECC route, 400 kV cable corridor and siting of the OnSS to avoid key areas of heritage and archaeological sensitivity. This includes the avoidance of Slackholme DMV – see commitment COM-150.</li> <li>Potential for preservation in situ of remains of national importance secured by the Schedule of Mitigation (document reference 8.13) and Figure 3.4.7</li> </ul>  |
| Construction           |   |
| ECC                    | <ul> <li>The footprint of all designated heritage assets had been avoided. Total avoidance of remains of national importance where possible.</li> <li>The use of trenchless techniques to avoid open cut trenching and minimise disturbance footprint to other remains of high importance.</li> <li>The restriction of a typically 60m working width within the typically 80m wide cable corridor to minimise ground disturbance to other remains of high importance.</li> <li>The ground restoration would be flush. Above ground markers for link boxes may include fencing or marker posts.</li> </ul> |
| OnSS                   | The footprint of all designated heritage assets has been avoided.   |
| Operation and Maintena | ance  |
| OnSS                   | <ul> <li>Landscaping shown on landscape mitigation plans including woodland<br/>shelter belts, Chapter 28 (document reference 6.2.28.15)</li> </ul>   |
| Decommissioning        |   |
| OnSS                   | No disturbance to 'new ground' that hasn't already been impacted.   |



# 20.6 Assessment Methodology

56. The applicable guidance is summarised as follows:

- National Planning Practice Guidance (DCLG 2014, as updated).
- Principles of Cultural Heritage Impact Assessment in the UK (IEMA, IHBC & CIFA 2021).
- Statements of Heritage Significance: Analysing Significance in Heritage Assets Historic England Advice Note 12 (Historic England 2019).
- The Setting of Heritage Assets: Historic Environment Good Practice Advice in Planning Note 3 (2<sup>nd</sup> edition, Historic England 2017).
- Design Manual for Roads and Bridges -
  - LA 104 Environmental Assessment and Monitoring (Highways England 2019)
  - LA 106 Cultural Heritage Assessment (Highways England 2019).
- The Lincolnshire Archaeology Handbook.<sup>3</sup>
- 57. The magnitude of the impact is defined in Table 20.6. This is in accordance with guidance presented in the Design Manual for Roads and Bridges and is considered relevant to a linear Project of this nature.<sup>4</sup>
- 58. This may be in reference to a direct impact i.e., through physical disturbance or it may be in reference to an indirect effect i.e., through changes to setting that affect significance.

| Magnitude  | Description/reason  |
|------------|---|
| Major      | Loss of resource and/or quality and integrity of resource; severe damage to key     |
|            | characteristics, features or elements.  |
| Moderate   | Loss of resource, but not adversely affecting the integrity; partial loss of/damage |
|            | to key characteristics, features or elements.                                       |
| Minor      | Some measurable change in attributes, quality, or vulnerability; minor loss of, or  |
|            | alteration to, one (maybe more) key characteristics, features or elements.          |
| Negligible | Very minor loss or detrimental alteration to one or more characteristics, features  |
|            | or elements.  |

Table 20.6: Impact magnitude definitions

59. In general EIA terminology, the sensitivity of a receptor is a function of its capacity to accommodate change and reflects its ability to recover if it is affected. In heritage terms, sensitivity relates to the nature of heritage assets as a non-renewable resource. Sensitivity is representative of an asset's designated status which references rarity on a national scale. Designated status infers the prevalence of a given asset and, therefore, the potential for that particular type of asset when viewed as a group to accommodate removal.

<sup>&</sup>lt;sup>3</sup> https://www.lincolnshire.gov.uk/historic-environment/archaeological-handbook

<sup>&</sup>lt;sup>4</sup> Design Manual for Roads and Bridges (2019)



60. The NPPF, in paragraph 206 part (b), infers a grading of significance in referring to 'assets of the highest significance' in reference to Scheduled Monuments, registered battlefields, Grade I and Grade II\* Listed Buildings, Grade I and Grade II\* Registered Parks and Gardens and World Heritage Sites. These categories of heritage assets have been incorporated into Table 20.7.

Table 20.7: Sensitivity/importance of the environment

| Receptor sensitivity / importance | Definition  |  |  |
|-----------------------------------|---|--|--|
| Very High                         | Very high importance and rarity, international scale and very limited potential for substitution.   |  |  |
|                                   | <ul> <li>World Heritage Sites</li> </ul>  |  |  |
| High                              | High importance and rarity, national scale, and limited potential for substitution.   |  |  |
|                                   | <ul> <li>Assets described as being of the 'highest significance' within the NPPF<br/>(paragraph 206</li> </ul>  |  |  |
|                                   | Scheduled Monuments   |  |  |
|                                   | Registered Battlefields   |  |  |
|                                   | <ul> <li>Grade I and II* Listed Buildings</li> </ul>  |  |  |
|                                   | <ul> <li>Grade I and II* Registered Parks and Gardens</li> </ul>  |  |  |
|                                   | <ul> <li>Conservation Areas including a high number of Grade I and II* Listed<br/>Buildings</li> </ul>  |  |  |
|                                   | <ul> <li>Non-designated archaeological remains of demonstrable equivalence to a<br/>Scheduled Monument</li> </ul>   |  |  |
| Medium                            | Medium or high importance and rarity, regional scale, limited potential for substitution. Assets inferred as not being of the highest importance due to their omission from NPPF paragraph 200. |  |  |
|                                   | <ul> <li>Grade II Listed Buildings</li> </ul>   |  |  |
|                                   | <ul> <li>Other Conservation Areas</li> </ul>  |  |  |
|                                   | <ul> <li>Grade II Registered Parks and Gardens</li> </ul>   |  |  |
|                                   | <ul> <li>Archaeological remains contributing to regional research frameworks</li> </ul>   |  |  |
| Low                               | Low or medium importance and rarity, local scale  |  |  |
|                                   | Locally listed buildings  |  |  |
|                                   | <ul> <li>Other archaeological remains</li> </ul>  |  |  |
| Negligible                        | Very low importance and rarity, local scale   |  |  |

61. Table 20.8 cross references the importance of the receptor with the magnitude of effect and refers to a DMRB matrix with 'slight' replaced by 'minor' and 'large' replaced with 'major' to achieve conformity across all chapters of this ES.



#### Table 20.8: Matrix to determine effect significance

|                                    |            | Magnitude of impact |                        |                     |                      |
|------------------------------------|------------|---------------------|------------------------|---------------------|----------------------|
|                                    |            | Negligible          | Minor                  | Moderate            | Major                |
| Sensitivity/Importance of receptor | Negligible | Negligible          | Negligible or<br>Minor | Negligible or Minor | Minor                |
|                                    | Pow        | Minor               | Minor                  | Minor               | Minor or<br>Moderate |
|                                    | Medium     | Minor               | Minor                  | Moderate            | Moderate or<br>Major |
|                                    | High       | Minor               | Minor or<br>Moderate   | Moderate or Major   | Major                |
|                                    | Very High  | Minor               | Moderate or<br>Major   | Major               | Major                |

62. It should be noted that a 'significant' impact in EIA terms does not necessarily equate to 'substantial harm' in reference to NPPF terminology. Also, as referenced within the DMRB guidance and considered applicable:

'the effect on the cultural heritage resource is not significant when the impact does not substantially diminish the heritage interest of the cultural heritage resource'.<sup>5</sup>

63. A conclusion on whether or not an impact is considered significant will be made by the author of the EIA with regards to a narrative prepared outside of the tabulated summary.

# 20.6.1 Assumptions and Limitations

64. The prediction of direct impacts to potential archaeological remains has been prepared with regard to a baseline as set out within Appendix 20.1 Onshore Archaeology and Cultural Heritage Desk-Based Assessment (document reference 6.3.20.1).



- 65. With regard to archaeological fieldwork, NPPF (paragraph 200) and EN-1 (paragraph 5.9.11) reference a potential necessity for evaluation fieldwork. Fieldwork undertaken to inform the EIA has included targeted geophysical which has evaluated the footprint of the Transition Joint Bays (TJBs), the only part of the Order Limits outside of the onshore ECC and 400kV cable corridor where significant impacts may have been predicted and where preservation in situ is not possible. At the TJBs the geophysical survey has been undertaken and has not highlighted a potential for significant impacts.
- 66. Therefore, in light of the indicative onshore infrastructure as set out in Figure 3.4.7, a commitment that preservation in situ could be accommodated for works along the onshore ECC between the TJB and the OnSS and for the 400kV cable corridor (Schedule of Mitigation document reference 8.13) and the findings of the DBA (document reference 6.3.20.1) and this Chapter, the baseline presented is considered sufficient for the determination of the DCO.
- 67. The assessment of indirect (setting) effects was undertaken using all standard desk-based resources. These are set out within Appendix 20.2 (document reference 6.3.20.2). Field observations were made from publicly accessible areas. No privately owned assets were inspected or visited. Assumptions on the private experience of assets have been made.

# 20.7 Impact Assessment

# 20.7.1 Construction

- 68. This section presents the assessment of impacts arising from the construction phase of the Project. The following tabulated matrices are provided as a worst-case scenario. The importance of an asset is provided in accordance with Table 20.7.
- 69. Remains as set out in the baseline section would be of varying archaeological interest contributing towards an understanding of activity from the prehistoric period onwards.

# 20.7.1.1 Archaeological Remains *Transient Prehistoric*

70. These include potential archaeological remains on the surface of the Pleistocene land surface which is below the earlier tidal mudflat (AOP A1). These would only be reached in discrete areas of the Project as set out in Section 20.4.3. Potential remains would comprise Palaeolithic/Mesolithic worked flints or short lived early prehistoric features such as pits and hearths on the late Pleistocene land surface. Such remains would be of archaeological interest in their contribution towards an understanding of seasonal early hunter gatherer communities living on the edge of Doggerland when it was dry. However, their eroded or ex-situ nature would reduce their level of importance. On this basis a low level of importance is predicted.



- 71. This category also includes potential archaeological remains on the surface of or within the earlier mudflat. The Project parameters that may affect layers with the potential for these remains are set out in Section 20.4.3. These remains could comprise later (Neolithic onwards) worked flint and remains of fish traps, jetties and trackways. These would be of archaeological interest in their contribution towards an understanding of hunting activity or movement across marshy landscapes. These activities may have been undertaken on the edge of or within wetland habitats which emerged and re-emerged during various periods of inundation and regression. Due to the nature of the depositional environment involving estuarine tidal processes, it is anticipated that any remains would be eroded and ex-situ apart from in areas where peat may have preserved remains within areas of slower depositional processes.
- 72. Remains would be of archaeological interest. In general, they would not be regarded as being of the highest archaeological importance. Exceptions to this in the category in general may be significant structures such as trackways and jetties which could have been constructed within marshland habitats to facilitate hunting. However, in the footprint of the proposals the repeated estuarine tidal processes which have driven periods of inundation are anticipated to have caused disturbance such that features within and beneath the mudflats would be anticipated to be eroded and ex-situ in most instances. An importance of medium is predicted for areas of stability referenced by the thicker deposits of peat. A lower level of importance is predicted in areas of no peat or thin peat.

## Palaeoenvironmental/geoenvironmental

- 73. These include deposits with organic potential which comprise peat but also waterlogged clays. These would be within and between the later and earlier tidal mudflats. Due to their antiquity, the deposits within the earlier mudflat would probably be of greater interest.
- 74. Plant remains, molluscs and pollen could inform on previous climate, hydrology and ecology and assist in reconstructing past landscapes. The dating of palaeochannels and the recording of sequences of deposition with in them could assist in the understanding of periods of marine ingression and regression.
- 75. Deposits of palaeoenvironmental potential and geoarchaeological potential would therefore be of archaeological interest. The greater interest may lay within deposits held within the earlier mudflat deposit. They would not, however be regarded as being of the highest archaeological importance. An importance of low to medium is predicted.

#### Permanent Occupation and Agriculture

- 76. Permanent remains associated with occupation or agriculture would most likely be present on the surface of, within or beneath the later mudflat (AOP 02). The Project parameters where potential remains of this nature may be anticipated are set out within Section 20.4.3.
- 77. If remains are present it is anticipated that they would most likely be of Iron Age/Romano-British, medieval or post medieval in date.



- 78. Remains associated with Iron Age/Roman settlements would illustrate occupation and agricultural expansion into a late/post prehistoric landscape emerged from the marginal conditions of earlier periods through dropping sea levels. Any remains could inform on the construction of roundhouses and farmsteads and illustrate methods of enclosure, farming and small-scale industrial activity such as the making of pottery. Occupation remains would be anticipated to contribute to an understanding of regional patterns and would be of medium archaeological importance. Associated field systems would be of relatively less importance.
- 79. Much is left to be understood about medieval settlements, including defining settlement types and their relationships, such as towns and other large settlements, particularly in Lincolnshire and the Fenland ridge. Settlement remains dating to the medieval period would have the potential for archaeological remains which would contribute to our understanding of medieval settlement development, growth, level of planning, building types and construction materials, and domestic, agricultural and industrial remains. In general, they would be anticipated to contribute towards a regional understanding of medieval archaeology and be of medium importance but at isolated examples, where relatively large areas of activity are expected and where truncation has been minimal remains could be of higher importance. For example, the remains in ECC2 at Slackholme deserted medieval village may be of high importance due to the level of preservation inferred by earthworks (HER MLI99418). Remains of associated field systems of Anglo Saxon or medieval date would be regarded as being of relatively lesser importance apart from field systems with good surviving earthworks. Medieval roads could inform on communication routes between settlements and areas of other activity and would be anticipated to be of low to medium importance.
- 80. Post medieval farmsteads and other post medieval buildings, which could inform on the continuation of activity from the preceding medieval period and post medieval expansion of farming and occupation across reclaimed land, would be of low to medium archaeological importance. Other identified remains of post medieval date which could relate to post medieval agriculture are tramways at the southern end of the Order Limits. Any remains would be of negligible to low importance.
- 81. Post medieval field systems would inform on the post medieval agglomeration of earlier field systems and the enclosure of new areas of land. These would be anticipated to be of negligible to low archaeological interest.
- 82. Medieval/post medieval drainage ditches which would inform on the management of water for the purposes of drainage/land reclamation in making land suitable for occupation and agriculture. These would be anticipated to range in the region of negligible to medium importance, the larger ditches such as the Hob Hole Drain being of relatively higher interest due to the level of engineering and the impact that its construction had on regional land improvements.

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#### Salterns

- 83. The remains of salterns may be present as low mounds made up of pottery waste and fragments of burnt clay which could have accumulated over many episodes of the heating of brine water and the collection of salt crystals. Saltern remains would be present between the earlier and the later mudflat deposit within the Project parameters as set out in Section 20.4.3. These are most likely to date to the Iron Age/Roman to medieval periods.
- 84. These assets would be considered of low importance in the circumstances of the Project footprint where repeated estuarine tidal processes which have driven periods of inundation are anticipated to have caused disturbance such that features within and beneath the mudflats would be anticipated to be eroded. Later arable intensification in the area would also have affected later examples such that all earthworks in general are eroded.

#### Seawalls

- 85. The waste products from salt making were responsible for the accumulation of debris which in places accumulated to such a height it acted as a sea wall. These accumulations are not anticipated within the Order Limits, with seawall remains of this type being specifically recorded outside of the Project footprint.
- 86. Purpose-built defences of likely medieval date are recorded within close vicinity to or extending into the Order Limits as referenced in Section 20.4.3. Depending on their level of preservation these assets would be considered of low to medium importance, illustrating a concerted effort in the medieval period to defend areas of land from inundation most likely for the purposes of grazing and agricultural expansion, albeit an association with defended settlement cannot be ruled out. Seawalls with extant earthworks would be considered to be of medium importance due to the visual appreciation of their function and the preservation of their structures informing on medieval methods of sea defence construction.

#### Summary

- 87. It is anticipated that archaeological remains would be predominantly gauged at no greater than low or medium importance. Exceptions to this are the medieval remains associated with Slackholme deserted medieval village. These could be well preserved and be of high importance. These would be avoided through trenchless methods.
- 88. The significance of effect is provided in accordance with.

# 20.7.1.2 Impact 1: Permanent direct impacts to buried archaeological remains through the construction of the Landfall, Onshore ECC, 400 kV cable route and OnSS.

89. A summary of the permanent direct impacts to buried archaeological remains through the construction of the landfall, onshore ECC, 400Kv cable corridor and the OnSS, are summarised within Table 20.9.



- 90. Impacts 1-20 relate to direct construction disturbance. The magnitude of impact is generally assessed as being 'moderate to major'. This reflects the likely footprint of an asset and the likely footprint of disturbance both horizontally and vertically. A lower level of magnitude is referenced where assets may be particularly large. A lower level of magnitude is also referenced where potential construction parameters are particularly shallow, such as compounds and haul roads where the ground disturbance may not penetrate beyond plough soils or 'overburden' such that deposits with archaeological potential would be minimally affected.
- 91. Impact 21 references potential effects through dewatering. The magnitude of impact is referenced with due regard to the conclusions of Chapter 24 Onshore Hydrology, Hydrogeology and Flood Risk,
- 92. Potentially significant impacts are those referenced with a significance of effect of moderate or greater.
- 93. However, the impacts referenced in Table 20.9 present the worst-case scenario impacts i.e. they reference the installation of the cable via open cut methods where 'open cut or trenchless' works are referenced within Figure 3.4.7.
- 94. It is emphasised that preservation in situ of remains of national importance could be achieved through the implementation of construction techniques which could be applied across the entire onshore Order Limits between the TJB sites and the OnSS and the OnSS and the Project's connection point into the NGSS. These comprise the micro-siting of launch and receive pits, trenchless construction techniques for cable installation and no-dig methods at compounds and haul roads. These options are secured by the submission documents which reference flexible construction methods (Figure 3.4.7) and the Schedule of Mitigation (document reference 8.13). Final construction parameters referencing the above trenchless and no-dig methods would be informed by the works set out within the OWSI for Archaeological Works (document reference 8.9).
  - 95. The potential best-case impact scenario which references a potential for preservation in situ, are set out in at the end of this chapter. In this scenario Table 20.18 does not reference any significant impacts, it being noted that the higher range of worst-case impacts identified in relation to impacts 4 and 6 do not apply to the TJB and the OnSS where deposits of peat are modelled at 0-0.5m in thickness only. This would infer a relative lack of importance in relation to thicker deposits located elsewhere.
  - 96. All impacts should be balanced by the public benefits of providing a renewable electricity supply. Public benefits could also be achieved through the release of heritage capital that any archaeological fieldwork would trigger.



| Asset   | Segment   | Importance | Magnitude of<br>Effect | Significance<br>of Effect<br>(Adverse) | Duration  |
|---|---|------------|------------------------|--|-----------|
| <ol> <li>Prehistoric         <ul> <li>(permanent) - Iron Age occupation features covered by later tidal mudflats.</li> <li>Potentially including -</li></ul></li></ol>  | <ul> <li>Open cut trenching in parts of ECC1 and all of ECC 2-6.</li> <li>Joint bays in all of ECC3-6.</li> <li>Joint bays in parts of ECC1-2 and all of ECC3-6.</li> <li>Trenchless entry and exit pits in all of EEC1 through to ECC6.</li> </ul> | Medium     | Moderate to<br>Major   | Moderate                               | Permanent |
| <ul> <li>2. Prehistoric</li> <li>(permanent) - Iron Age agricultural features covered by later tidal mudflats.</li> <li>Potentially including - <ul> <li>area of archaeological interest 2 in ECC2.</li> </ul> </li> </ul>                    | <ul> <li>Open cut trench in parts of ECC1 and all of ECC 2-6.</li> <li>Joint bays in all of ECC3-6.</li> <li>Joint bays in parts of ECC1-2 and all of ECC3-6.</li> <li>Trenchless entry and exit pits in all of EEC1-ECC6.</li> </ul>               | Low        | Moderate -<br>Major    | Minor                                  | Permanent |
| 3. Prehistoric (transient/<br>short lived). Worked flint and<br>short-lived features beneath<br>the earlier mudflat deposit –<br>potential<br>Palaeolithic/Mesolithic date<br>(importance affected by likely<br>eroded and ex situ survival). | <ul> <li>Trenchless entry/exit in all of ECC2 and ECC7-8 and parts of ECC1, ECC3-6, ECC9-14.</li> <li>Joint bays in parts of ECC7-8.</li> <li>Open cut trench in parts of ECC7-8 and ECC10.</li> <li>OnSS – piled foundations.</li> </ul>           | Low        | Moderate-<br>Major     | Minor                                  | Permanent |

Table 20.9: Permanent direct impacts to buried archaeological remains.



| Asset  | Segment  | Importance       | Magnitude of<br>Effect | Significance<br>of Effect<br>(Adverse) | Duration  |
|--|--|------------------|------------------------|--|-----------|
| 4. Prehistoric (transient/<br>short lived). Later prehistoric<br>worked flint and wooden<br>artefacts such as fishtraps,<br>jetties, trackways (importance<br>affected by likely eroded and<br>ex situ survival, greater levels<br>of importance predicted for<br>thicker deposits of peat). | <ul> <li>TJB in ECC1.</li> <li>OnSS in ECC13.</li> <li>Open cut trench in all of ECC1,9,12-13 and parts of ECC2-8 &amp; 10-11.</li> <li>Joint bays in all of ECC3-8 &amp; 10-12.</li> <li>Joint bays in parts of ECC1, 2, 9 &amp; 13-14.</li> <li>Trenchless entry/exit pits in all of ECC1-8 &amp; 10-12 and parts of ECC9 &amp; ECC13-14.</li> </ul> | Low to<br>medium | Moderate-<br>Major     | Minor to<br>moderate                   | Permanent |
| 5. Palaeochannels with<br>potential for deposits of<br>geoarchaeological interest  | All segments (all works but likely not haul roads or compounds due to relative depths)   | Medium           | Minor                  | Minor                                  | Permanent |
| 6. Peat may contain<br>deposits of<br>palaeoenvironmental and<br>geoarchaeological potential   | All segments (all works but likely not haul roads or compounds due to relative depths)   | Low to<br>Medium | Minor to<br>moderate   | Minor to<br>Moderate                   | Permanent |
| <ul> <li>7. Roman occupation.</li> <li>Potentially including -</li> <li>Area of archaeological interest 2 in ECC2.</li> <li>Area of archaeological interest 12 in ECC8</li> </ul>  | <ul> <li>Open cut trench in all of ECC2-8 &amp; 10 and parts of ECC1 &amp; 9.</li> <li>Joint bays in all of ECC3-8 and ECC10.</li> <li>Joint bays in parts of ECC1-2 and ECC9.</li> <li>Trenchless entry and exit pits in all of EEC1-ECC10.</li> </ul>  | Medium           | Moderate to<br>Major   | Moderate                               | Permanent |
| <ul> <li>8. Roman agricultural.</li> <li>Potentially including -</li> <li>Area of archaeological interest 2 in ECC2.</li> <li>Area of archaeological interest 8 in ECC6.</li> </ul>  | <ul> <li>Open cut trench in all of ECC2-8 &amp; 10 and parts of ECC1 &amp; 9. Joint bays in all of ECC3-8 and ECC10. Joint bays in parts of ECC1-2 and ECC9.</li> <li>Trenchless entry and exit pits in all of ECC1-ECC10.</li> </ul>  | Low              | Moderate to<br>Major   | Minor                                  | Permanent |



| Asset   | Segment  | Importance | Magnitude of<br>Effect | Significance<br>of Effect<br>(Adverse) | Duration  |
|---|--|------------|------------------------|--|-----------|
| <ul> <li>Area of archaeological<br/>interest 12 in ECC8</li> </ul>  |  |            |                        |  |           |
| <ul> <li>9. Iron Age/Roman salterns. Potentially including –</li> <li>Area of archaeological interest 2 in ECC2.</li> <li>Geophysical anomalies in ECC3.</li> <li>Area of archaeological interest 6 in ECC5</li> <li>Area of archaeological interest 7 in ECC5</li> </ul> | <ul> <li>TJB in ECC1.</li> <li>OnSS in ECC13.</li> <li>Open cut trench in all of ECC2-8 &amp;10-12.</li> <li>Open cut trench in parts of ECC1, 9 &amp;12-14.</li> <li>Joint bays in all of ECC2-8 &amp; ECC10-12.</li> <li>Joint bays in parts of ECC1, ECC9 &amp; ECC13-14.</li> <li>Trenchless entry/exit pits in all of ECC1-8 and ECC10-12.</li> <li>HDD entry/exit pits in parts of ECC9 &amp; ECC13-14.</li> </ul> | Low        | Moderate to<br>Major   | Minor                                  | Permanent |
| 10. Anglo Saxon<br>Agricultural   | <ul><li>ECC2 (all works)</li><li>ECC7-9 &amp; A16 compound (all works)</li></ul>   | Low        | Moderate to<br>Major   | Minor                                  | Permanent |
| 11. Anglo Saxon salterns  | ECC1-ECC14 (all works)   | Low        | Moderate to<br>Major   | Minor                                  | Permanent |
| 12. Medieval sea walls  | ECC1, ECC11-ECC13 (all works)  | Medium     | Neutral                | None                                   | -         |
| <ul> <li>13. Medieval salterns.</li> <li>Potentially including –</li> <li>Area of archaeological interest 1 in ECC1 including PCC-1)</li> <li>Area of archaeological interest 6 in ECC5</li> </ul>  | <ul> <li>ECC1, ECC5-ECC14 (all works)</li> </ul>   | Low        | Moderate to<br>Major   | Minor                                  | Permanent |



| Asset   | Segment  | Importance  | Magnitude of<br>Effect | Significance<br>of Effect<br>(Adverse) | Duration  |
|---|--|-------------|------------------------|--|-----------|
| <ul> <li>Area of archaeological<br/>interest 7 in ECC5</li> <li>Area of archaeological<br/>interest 11 in ECC10</li> </ul>  |  |             |                        |  |           |
| 14. Medieval occupation<br>Slackholme   | ECC2   | Medium/High | Neutral                | None                                   |           |
| 15. Medieval occupation<br>at area of archaeological<br>interest 9 in ECC7  | <ul> <li>ECC7 including SCC-13 (all works)</li> </ul>                  | Medium/High | Minor to moderate      | Moderate                               | Permanent |
| <ul> <li>16. Medieval occupation<br/>other locations. Potentially<br/>including <ul> <li>Area of archaeological<br/>interest 4 in ECC 2</li> <li>Area of archaeological<br/>10 in ECC6</li> </ul> </li> </ul>   | <ul> <li>ECC2, ECC3, ECC6, ECC7 (all works)</li> </ul>                 | Medium      | Moderate to<br>Major   | Moderate                               | Permanent |
| <ul> <li>17. Potential Medieval agricultural remains.</li> <li>Area of archaeological interest 1 in ECC1 including PCC-1)</li> <li>Area of archaeological interest 8 in ECC6</li> <li>Area of archaeological interest 12 in ECC8</li> <li>Area of archaeological interest 11 in ECC9 and ECC10</li> </ul> | <ul> <li>ECC1-ECC12 &amp; A16 compound [PCC-23] (all works)</li> </ul> | Low         | Moderate to<br>Major   | Minor                                  | Permanent |



| Asset   | Segment  | Importance           | Magnitude of<br>Effect | Significance<br>of Effect<br>(Adverse) | Duration  |
|---|--|----------------------|------------------------|--|-----------|
| <ul> <li>18. Post medieval farmsteads/agricultural buildings.</li> <li>MLI118799 in ECC1</li> <li>MLI120254 in ECC5</li> <li>MLI124352 in ECC6</li> <li>MLI124527 in ECC8</li> <li>MLI124196 in ECC9</li> <li>MLI124228 in ECC10</li> <li>MLI123126 in ECC12</li> <li>Potentially Area of archaeological interest 12 in ECC8</li> </ul> | <ul> <li>ECC1, ECC5, ECC6, ECC8, ECC9, ECC10,<br/>ECC12 (all works)</li> </ul> | Low                  | Moderate-<br>Major     | Minor                                  | Permanent |
| 19. Post medieval field systems   | <ul> <li>All (all works)</li> </ul>  | Negligible to<br>Low | Minor                  | Minor                                  | Permanent |
| 20. Post medieval tramline  | ECC14 (all works)  | Negligible to<br>Low | Minor                  | Minor                                  | Permanent |
| 21. Peat deposits including peat deposits with potential for organic remains  | All segments (all works but likely not haul                                    | Low to<br>Medium     | Negligible             | Minor                                  | Temporary |



20.7.1.3 Impact 2: Temporary indirect impacts to designated and non-designated heritage assets through setting change caused by the construction of the ECC, OnSS and National Grid connection.

- 97. This section presents the assessment of impacts arising from the construction phase of the Project. The following tabulated matrices in Table 20.10 are provided as a worst-case scenario. The importance of an asset is provided in accordance with Table 20.6. The magnitude of impact is provided in accordance with Table 20.7. The significance of effect is provided in accordance with Table 20.8.
- 98. A more detailed narrative is presented for selected assets within the Heritage Statement (document reference 6.3.20.2). Sections 5 and 6 of Appendix 20.2 include statements of significance and a detailed impact assessment for assets which were assessed to be at a potential risk of significant impact due to either their level of importance and/or the anticipated nature of impact. All assets referenced in more detail in Appendix 20.2 (document reference 6.3.20.2) are presented in italics in the tables below.
- 99. Cross references will be made to other chapters (presented in Volume 1 of the ES) providing for information on setting change. These will be:
  - Chapter 26 Noise and Vibration (document reference 6.1.26);
  - Chapter 27 Traffic and Transport (document reference 6.1.27); and
  - Chapter 28 Landscape and Visual Assessment (document reference 6.1.28).
- 100. It is noted here that it is anticipated that should any 'significant' impacts be identified here under EIA terminology, they are not indicative of 'substantial harm' as referenced by the NPPF.
- 101. All impacts should be balanced by the public benefits around an electricity supply that the proposals would offer.

| Segment        | Asset                                   | Importance | Magnitude        | Effect           | Duration  |  |  |
|----------------|---|------------|------------------|------------------|-----------|--|--|
| Scheduled M    | onuments                                |            |                  |                  |           |  |  |
| ECC7           | Abbey Hills Moated Site (1016044)       | High       | Negligible/Minor | Minor<br>adverse | Temporary |  |  |
| ECC8           | King's Hill Motte<br>(1018398)          | High       | Negligible       | Minor<br>adverse | Temporary |  |  |
| ECC11          | Moulton Hall<br>(1018584)               | High       | Negligible/Minor | Minor<br>adverse | Temporary |  |  |
| ECC13          | Wykeham Chapel (1019096)                | High       | Negligible       | Minor<br>adverse | Temporary |  |  |
| Listed Buildin | Listed Buildings                        |            |                  |                  |           |  |  |
| ECC9           | Church of St James<br>(Grade I 1308415) | High       | Negligible       | Minor<br>adverse | Temporary |  |  |

#### Table 20.10: In-direct Temporary Impacts – Construction Phase



| Segment     | Asset   | Importance | Magnitude        | Effect           | Duration  |
|-------------|---|------------|------------------|------------------|-----------|
| ECC10       | Coupledyke Hall<br>(Grade II 1308426)                     | Medium     | Negligible       | Minor<br>adverse | Temporary |
| ECC13       | The Wykeham Chapel<br>of St Nicholas (Grade I<br>1064471) | High       | Negligible       | Minor<br>adverse | Temporary |
| ECC13       | The Gables (Grade II<br>1146546)                          | Medium     | Negligible/Minor | Minor<br>adverse | Temporary |
| ECC13       | Wraggmarsh<br>Farmhouse (Grade II<br>1147603)             | Medium     | Negligible/Minor | Minor<br>adverse | Temporary |
| Non-Designa | ated Farmhouses   |            |                  |                  |           |
| ECC1        | Lowgate Farm (HER reference MLI118859)                    | Low        | Negligible/Minor | Minor<br>adverse | Temporary |
|             |   |            |                  |                  |           |
| ECC1        | Chestnut Farm (HER reference MLI118860)                   | Low        | Negligible/Minor | Minor<br>adverse | Temporary |
| ECC1        | Quaker's Hill<br>Farmhouse<br>(MLI118805).                | Low        | Negligible/Minor | Minor<br>adverse | Temporary |
| ECC2        | Field Farm<br>(MLI118858)                                 | Low        | Negligible/Minor | Minor<br>adverse | Temporary |
| ECC2        | un-named farmstead<br>(MLI118865)                         | Low        | Negligible/Minor | Minor<br>adverse | Temporary |
| ECC2        | Malt Farm<br>(MLI118869)                                  | Low        | Negligible/Minor | Minor<br>adverse | Temporary |
| ECC2        | Slackholme End<br>House Farm<br>(MLI118880)               | Low        | Negligible/Minor | Minor<br>adverse | Temporary |
| ECC2        | Jasmine Cottage<br>(MLI118883)                            | Low        | Negligible/Minor | Minor<br>adverse | Temporary |
| ECC2        | Willcox Farm<br>(MLI119832)                               | Low        | Negligible/Minor | Minor<br>adverse | Temporary |
| ECC2        | The Grange (MLI41973)                                     | Low        | Negligible/Minor | Minor<br>adverse | Temporary |



| Segment | Asset                               | Importance | Magnitude        | Effect           | Duration  |
|---------|-------------------------------------|------------|------------------|------------------|-----------|
| ECC3    | Fir Tree Farm<br>(MLI119851)        | Low        | Negligible/Minor | Minor<br>adverse | Temporary |
| ECC3    | Bristol Farm<br>(MLI119871)         | Low        | Negligible/Minor | Minor<br>adverse | Temporary |
| ECC4    | Rookery Farm<br>(MLI120243)         | Low        | Negligible/Minor | Minor<br>adverse | Temporary |
| ECC4    | Rivulet House<br>(MLI120244)        | Low        | Negligible/Minor | Minor<br>adverse | Temporary |
| ECC4    | Bank House<br>(MLI120267)           | Low        | Negligible/Minor | Minor<br>adverse | Temporary |
| ECC5    | Sycamore Lodge (MLI120271)          | Low        | Negligible/Minor | Minor<br>adverse | Temporary |
| ECC6    | Decoy Farm<br>(MLI124366)           | Low        | Negligible/Minor | Minor<br>adverse | Temporary |
| ECC7    | Willoughby Farm<br>(MLI1124362)     | Low        | Negligible/Minor | Minor<br>adverse | Temporary |
| ECC7    | Avenue Farm<br>(MLI1124368)         | Low        | Negligible/Minor | Minor<br>adverse | Temporary |
| ECC7    | Walnut Farm<br>(MLI1124369)         | Low        | Negligible/Minor | Minor<br>adverse | Temporary |
| ECC7    | Bleak House<br>(MLI124370)          | Low        | Negligible/Minor | Minor<br>adverse | Temporary |
| ECC7    | Hawthorn Farm<br>(MLI124441)        | Low        | Negligible/Minor | Minor<br>adverse | Temporary |
| ECC8    | Farmstead<br>(MLI124437)            | Low        | Negligible/Minor | Minor<br>adverse | Temporary |
| ECC8    | Farmstead<br>(MLI124438)            | Low        | Negligible/Minor | Minor<br>adverse | Temporary |
| ECC8    | Farmstead<br>(MLI124526)            | Low        | Negligible/Minor | Minor<br>adverse | Temporary |
| ECC8    | Old Leake Farmstead<br>(MLI124541)  | Low        | Negligible/Minor | Minor<br>adverse | Temporary |
| ECC8    | Faunt Bridge Cottage<br>(MLI124506) | Low        | Negligible/Minor | Minor<br>adverse | Temporary |



| Segment         | Asset                              | Importance | Magnitude        | Effect           | Duration  |
|-----------------|------------------------------------|------------|------------------|------------------|-----------|
| ECC9            | Swinedike Farm<br>(MLI124199)      | Low        | Negligible/Minor | Minor<br>adverse | Temporary |
| ECC9            | Reesons Farmstead<br>(MLI124216)   | Low        | Negligible/Minor | Minor<br>adverse | Temporary |
| ECC9            | Ings Farm<br>(MLI124255)           | Low        | Negligible/Minor | Minor<br>adverse | Temporary |
| ECC9            | Little Beeches<br>(MLI124256)      | Low        | Negligible/Minor | Minor<br>adverse | Temporary |
| ECC11           | Marsh Farm<br>(MLI121210)          | Low        | Negligible/Minor | Minor<br>adverse | Temporary |
| ECC11           | Sandholme Farm<br>(MLI123089)      | Low        | Negligible/Minor | Minor<br>adverse | Temporary |
| ECC11           | White House Farm<br>(MLI123119)    | Low        | Negligible/Minor | Minor<br>adverse | Temporary |
| ECC12           | Lloyds Farm<br>(MLI123128)         | Low        | Negligible/Minor | Minor<br>adverse | Temporary |
| ECC12           | Lentons Farm<br>(MLI123053)        | Low        | Negligible/Minor | Minor<br>adverse | Temporary |
| A16<br>Compound | Old Farm<br>(MLI121208)            | Low        | Negligible/Minor | Minor<br>adverse | Temporary |
| ECC13           | Hills Farm<br>(MLI122565)          | Low        | Negligible/Minor | Minor<br>adverse | Temporary |
| ECC13           | Old Three Tuns Farm<br>(MLI122568) | Low        | Negligible/Minor | Minor<br>adverse | Temporary |
| ECC13           | un-named farm<br>(MLI122577)       | Low        | Negligible/Minor | Minor<br>adverse | Temporary |
| ECC13           | Woad farm<br>(MLI122578)           | Low        | Negligible/Minor | Minor<br>adverse | Temporary |
| ECC13           | Welland House farm<br>(MLI122570)  | Low        | Negligible/Minor | Minor<br>adverse | Temporary |
| ECC13           | Vicarage Farm<br>(MLI122878)       | Low        | Negligible/Minor | Minor<br>adverse | Temporary |
| ECC13           | Surfleet farm<br>(MLI122569)       | Low        | Negligible/Minor | Minor<br>adverse | Temporary |



|               | 1   |                   |                        |                  |           |
|---------------|---|-------------------|------------------------|------------------|-----------|
| Segment       | Asset   | Importance        | Magnitude              | Effect           | Duration  |
| ECC13         | un-named farm<br>(MLI122909)                          | Low               | Negligible/Minor       | Minor<br>adverse | Temporary |
| ECC13         | Manor Farmhouse<br>(MLI122876)                        | Low               | Negligible/Minor       | Minor<br>adverse | Temporary |
| ECC14         | Crowtree Farm<br>(MLI122916                           | Low               | Negligible/Minor       | Minor<br>adverse | Temporary |
| ECC14         | Bottom Yard<br>(MLI122915)                            | Low               | Negligible/Minor       | Minor<br>adverse | Temporary |
| Non-Designa   | ted Medieval/Post Medie                               | eval Earthworks   |                        |                  |           |
| ECC2          | Medieval enclosures<br>(MLI98638)                     | Low to<br>medium  | Minor to<br>moderate   | Minor<br>adverse | Temporary |
| ECC3          | Medieval enclosures<br>and field system<br>(MLI98639) | Low to<br>medium  | Minor to<br>moderate   | Minor<br>adverse | Temporary |
| Non-designat  | ted Deserted Medieval Vi                              | illages           |                        |                  |           |
| ECC2          | Slackholme<br>(MLI99418)                              | Medium to<br>high | Negligible             | Minor<br>adverse | Temporary |
| Historic Land | scape Character and Hed                               | lgerows           |                        |                  |           |
| ECC1-5        | Skegness Holiday<br>Coast - The Grazing<br>Marshes    | Low               | Negligible to<br>minor | Minor<br>adverse | Temporary |
| ECC1-2        | The Mablethorpe<br>Outmarsh - The<br>Grazing Marshes  | Low               | Negligible to<br>minor | Minor<br>adverse | Temporary |
| ECC5-13       | Townlands - The<br>Wash                               | Low               | Negligible to<br>minor | Minor<br>adverse | Temporary |
| ECC6-9        | Eastern Fens - The<br>Fens                            | Low               | Negligible to<br>minor | Minor<br>adverse | Temporary |
| ECC11-12      | Reclaimed Coastal<br>Fringe - The Wash                | Low               | Negligible to<br>minor | Minor<br>adverse | Temporary |
| ECC14         | Reclaimed Wash<br>Farmlands - The Wash                | Low               | Negligible to<br>minor | Minor<br>adverse | Temporary |
| ECC13         | Bicker Haven - The<br>Wash                            | Low               | Negligible to<br>minor | Minor<br>adverse | Temporary |

Environmental Statement



20.7.1.4 Impact 3: Temporary direct impact to non-designated heritage assets through the construction of the landfall, onshore ECC , OnSS and 400Kv cable corridor

- 102. The temporary direct impacts to hedgerows and Historic Landscape Character (HLC) remains through the construction of the landfall, onshore ECC, 400Kv cable corridor and the OnSS are set out within Table 20.11.
- 103. Impacts presented below are temporary in reference to the reinstatement of hedgerows and the underground nature of the proposals within the ECC and 400kV cable corridor.
- 104. For all assets the magnitude of impact is assessed as being 'negligible to minor'. This reflects the relative size of the affected part of each asset, relative to the size of the wider HLC parcel or length of hedgerow.

| Segment       | Asset  | Importance | Magnitude              | Effect           | Duration  |  |  |  |  |  |
|---------------|--|------------|------------------------|------------------|-----------|--|--|--|--|--|
| Historic Land | Historic Landscape Character and Hedgerows           |            |                        |                  |           |  |  |  |  |  |
| Hedgerows     | Hedgerows set out in<br>Annex 2 of the HS            | Medium     | Negligible to<br>Minor | Minor<br>adverse | Temporary |  |  |  |  |  |
| ECC1-5        | Skegness Holiday<br>Coast - The Grazing<br>Marshes   | Low        | Negligible to<br>minor | Minor<br>adverse | Temporary |  |  |  |  |  |
| ECC1-2        | The Mablethorpe<br>Outmarsh - The<br>Grazing Marshes | Low        | Negligible to<br>minor | Minor<br>adverse | Temporary |  |  |  |  |  |
| ECC5-13       | Townlands - The<br>Wash                              | Low        | Negligible to<br>minor | Minor<br>adverse | Temporary |  |  |  |  |  |
| ECC6-9        | Eastern Fens - The<br>Fens                           | Low        | Negligible to<br>minor | Minor<br>adverse | Temporary |  |  |  |  |  |
| ECC11-12      | Reclaimed Coastal<br>Fringe - The Wash               | Low        | Negligible to<br>minor | Minor<br>adverse | Temporary |  |  |  |  |  |
| ECC14         | Reclaimed Wash<br>Farmlands - The Wash               | Low        | Negligible to<br>minor | Minor<br>adverse | Temporary |  |  |  |  |  |
| ECC13         | Bicker Haven - The<br>Wash                           | Low        | Negligible to<br>minor | Minor<br>adverse | Temporary |  |  |  |  |  |

Table 20.11: Direct Temporary Impacts – Construction Phase



## 20.7.2 Operations and Maintenance

- 105. At the operational phase, impacts are anticipated to be restricted to those caused by upstanding buildings and associated features at the OnSS. These would be impacts caused by change within the setting of a heritage receptor which would be anticipated to affect the significance of the heritage receptor. It is noted here that change within the setting of a heritage receptor does not necessarily equate to adverse harm under this specific consideration. Impacts are referenced as short term due to mitigation planting which would provide screening.
- 106. A more detailed narrative is presented for selected assets within Appendix 20.2 (document reference 6.3.20.2).
- 107. It is noted here that it is anticipated that any 'significant' impacts identified here under EIA terminology are not indicative of 'substantial harm' as referenced by the NPPF.

20.7.2.1 Impact 1: Permanent indirect impacts to designated and non-designated heritage assets through setting change caused by the presence of the OnSS.

108. Table 20.12 presents the permanent indirect impacts to designated and non-designated heritage assets through setting change caused by the presence of the OnSS.

| Segment        | Asset   | Importance | Magnitude        | Effect           | Duration   |  |  |  |
|----------------|---|------------|------------------|------------------|------------|--|--|--|
| Scheduled M    | Scheduled Monuments                                       |            |                  |                  |            |  |  |  |
| ECC13          | Wykeham Chapel<br>(1019096)                               | High       | Negligible       | Minor<br>adverse | Short term |  |  |  |
| Listed Buildir | ngs   |            |                  |                  |            |  |  |  |
| ECC13          | The Wykeham Chapel<br>of St Nicholas (Grade I<br>1064471) | High       | Negligible       | Minor<br>adverse | Short term |  |  |  |
| ECC13          | The Gables (Grade II<br>1146546)                          | Medium     | Negligible/Minor | Minor<br>adverse | Short term |  |  |  |
| ECC13          | Wraggmarsh<br>Farmhouse (Grade II<br>1147603)             | Medium     | Negligible/Minor | Minor<br>adverse | Short term |  |  |  |
| Non-Designa    | ted Farmhouses  |            |                  |                  |            |  |  |  |
| ECC13          | Hills Farm<br>(MLI122565)                                 | Low        | Negligible/Minor | Minor<br>adverse | Short term |  |  |  |
| ECC13          | Old Three Tuns Farm<br>(MLI122568)                        | Low        | Negligible/Minor | Minor<br>adverse | Short term |  |  |  |
| ECC13          | un-named farm<br>(MLI122577)                              | Low        | Negligible/Minor | Minor<br>adverse | Short term |  |  |  |

Table 20.12: Indirect Permanent Impacts – Operational Phase



| Segment                      | Asset                               |     | Importance | Magnitude        | Effect           | Duration   |
|------------------------------|-------------------------------------|-----|------------|------------------|------------------|------------|
| ECC13                        | Woad fa<br>(MLI122578)              | arm | Low        | Negligible/Minor | Minor<br>adverse | Short term |
| ECC13                        | Welland House fa<br>(MLI122570)     | arm | Low        | Negligible/Minor | Minor<br>adverse | Short term |
| ECC13                        | Vicarage Fa<br>(MLI122878)          | arm | Low        | Negligible/Minor | Minor<br>adverse | Short term |
| ECC13                        | Surfleet fa<br>(MLI122569)          | arm | Low        | Negligible/Minor | Minor<br>adverse | Short term |
| ECC13                        | Manor fa<br>(MLI122876)             | arm | Low        | Negligible/Minor | Minor<br>adverse | Short term |
| Historic Landscape Character |                                     |     |            |                  |                  |            |
| ECC13                        | Bicker Haven - <sup>-</sup><br>Wash | The | Low        | Minor            | Minor<br>adverse | Permanent  |

109. It is noted that for all assets bar Historic Landscape Character that these are short-term operational effects. In the long term the screening provided by proposed planting would substantially screen the proposals and remove any operational impact.



# 20.7.3 Decommissioning

20.7.3.1 Impact 1: Temporary indirect impacts to designated and non-designated heritage assets through setting change caused by the demolition of the OnSS.

| Table 20.13: I | ndirect Tempo | prary Impacts – | Decommission Phase |
|----------------|---------------|-----------------|--------------------|
| 10010 20.10.1  | nun cet rempe | nuly inipucts   |                    |

| Segment        | Asset   | Importance | Magnitude        | Effect           | Duration  |
|----------------|---|------------|------------------|------------------|-----------|
| Scheduled M    | onuments  |            |                  |                  |           |
| ECC13          | Wykeham Chapel<br>(1019096)                               | High       | Negligible       | Minor<br>adverse | Temporary |
| Listed Buildin | igs   |            |                  |                  |           |
| ECC13          | The Wykeham Chapel<br>of St Nicholas (Grade I<br>1064471) | High       | Negligible       | Minor<br>adverse | Temporary |
| ECC13          | The Gables (Grade II<br>1146546)                          | Medium     | Negligible/Minor | Minor<br>adverse | Temporary |
| ECC13          | Wraggmarsh<br>Farmhouse (Grade II<br>1147603)             | Medium     | Negligible/Minor | Minor<br>adverse | Temporary |
| Non-Designa    | ted Farmhouses  |            |                  |                  |           |
| ECC13          | Hills Farm<br>(MLI122565)                                 | Low        | Negligible/Minor | Minor<br>adverse | Temporary |
| ECC13          | Old Three Tuns Farm<br>(MLI122568)                        | Low        | Negligible/Minor | Minor<br>adverse | Temporary |
| ECC13          | un-named farm<br>(MLI122577)                              | Low        | Negligible/Minor | Minor<br>adverse | Temporary |
| ECC13          | Woad farm<br>(MLI122578)                                  | Low        | Negligible/Minor | Minor<br>adverse | Temporary |
| ECC13          | Welland House farm<br>(MLI122570)                         | Low        | Negligible/Minor | Minor<br>adverse | Temporary |
| ECC13          | Vicarage Farm<br>(MLI122878)                              | Low        | Negligible/Minor | Minor<br>adverse | Temporary |
| ECC13          | Surfleet farm<br>(MLI122569)                              | Low        | Negligible/Minor | Minor<br>adverse | Temporary |
| ECC13          | un-named farm<br>(MLI122909)                              | Low        | Negligible/Minor | Minor<br>adverse | Temporary |



# 20.7.3.2 Impact 2: Permanent direct impacts to buried archaeological remains through the removal of infrastructure

110. It is anticipated that the footprint of ground disturbance associated with decommissioning would be within the zone of disturbance associated with the construction phase of the Project. On this assumption, there would be no potential significant impact to archaeological which would have been removed or heavily truncated by construction activity.

## 20.8 Mitigation

111. Mitigation works are set out in the OWSI for Archaeological Work (document reference 8.9). These comprise the standard suite of archaeological mitigation works including set piece excavation, strip, map and sample, watching briefs and preservation in situ. Mitigation options will be deployed in response to the results of archaeological evaluation also set out within the OWSI.

# 20.9 Cumulative Impact Assessment

- 112. This cumulative impact assessment for archaeology and cultural heritage has been undertaken in accordance with the methodology provided in Volume 3, Appendix 32.1 Cumulative Effects Assessment Approach (document reference 6.3.32.1).
- 113. The projects and plans selected as relevant 'other developments' to the assessment of cumulative impacts to Onshore Archaeology and Cultural Heritage are based upon a screening exercise undertaken on an initial long list of reasonably foreseeable other developments located within the Project's zone of influence; be it consented schemes not built out or schemes for which planning consent is actively being sought.
- 114. Each project, plan or activity under these terms has been considered and scoped in or out on the basis of effect-receptor pathway, data confidence and the temporal and spatial scales involved.
- 115. The determination of the short list of other developments is documented in Appendix 32.1 (document reference 6.3.32.1).
- 116. For the purposes of assessing the cumulative impact on Archaeology and Cultural Heritage all other developments, other than the Naylors Farm application and the National Grid Substation (see below), were screened out due to the lack of common receptors.

## 20.9.1 Naylors Farm Application

## 20.9.1.1 Archaeology (Direct Impacts)

117. The Naylors Farm application which comprises a proposed anaerobic digester plant is located to the immediate west of the Order Limits; specifically, west of the OnSS. Apart from the potential direct impact to possible palaeochannels, transient remains, salterns and deposits of peat which in this location would be anticipated to have been affected by erosion, no cumulative impacts would be predicted. The works associated with Naylors Farm and the OnSS would not be anticipated to combine to cause a significant impact due to the anticipated level of importance or remains as set out in Table 20.14.



118. In both cases archaeological mitigation would be implemented to record archaeological and paleoenvironmental remains.

| Segment    | Asset   | Importance | Cumulative<br>Magnitude | Cumulative<br>Effect | Duration  |
|------------|---|------------|-------------------------|----------------------|-----------|
| ECC13/OnSS | Disturbance to<br>palaeochannels with<br>potential for deposits<br>of geoarchaeological<br>interest   | Medium     | Minor                   | Minor<br>adverse     | Permanent |
| ECC13/OnSS | Peat which may<br>contain deposits of<br>palaeoenvironmental<br>and geoarchaeological<br>potential  | Low        | Minor to<br>moderate    | Minor<br>adverse     | Permanent |
| ECC13/OnSS | Prehistoric (transient/<br>short lived). Worked<br>flint and short-lived<br>features beneath the<br>earlier mudflat deposit<br>– potential<br>Palaeolithic/Mesolithic<br>date (importance<br>affected by likely<br>eroded and ex situ<br>survival). | Low        | Moderate to<br>major    | Minor                | Permanent |
| ECC13/OnSS | Salterns (Iron Age to medieval)   | Low        | Moderate to<br>major    | Minor                | Permanent |

| Table 20 14: Potential Common | Archaeology Recentors | with the Naylors Farm Application |
|-------------------------------|-----------------------|-----------------------------------|
| Table 20.14. Potential Common | Archaeology Receptors | with the Naylors Farm Application |

## 20.9.1.2 Cultural Heritage (Setting Impacts)

- 119. Common receptors would be anticipated to be as set out within Table 20.15. These are assets located in the vicinity of Naylors Farm where effects have been predicted in respect to the construction in the Order Limits, principally the OnSS (see Appendix 20.2). It is noted that all cumulative impacts classified as temporary would only occur if the OnSS and Naylors Farm were to be constructed at the same time.
- 120. As indicated, impacts identified for the Project OnSS are not anticipated to combine cumulatively with the Naylor Farm proposals to increase the level of impact already identified. Therefore, no significant cumulative impacts are predicted in respect to heritage receptors through setting change.



| Table 20.15: Potential Common Heritage Receptors with the Naylors Farm application | tion |
|--|------|
|--|------|

| Segment        | Asset   | Importance | Cumulative<br>Magnitude | Cumulative<br>Effect | Duration                  |
|----------------|---|------------|-------------------------|----------------------|---------------------------|
| Scheduled Mo   | onuments  |            |                         |                      |                           |
| ECC13/OnSS     | Wykeham Chapel<br>(1019096)                               | High       | Negligible              | Minor<br>adverse     | Temporary &<br>Short term |
| Listed Buildin | gs  |            |                         |                      |                           |
| ECC13/OnSS     | The Gables (Grade II<br>(1146546)                         | Medium     | Negligible/Minor        | Minor<br>adverse     | Temporary &<br>Short term |
| ECC13/OnSS     | The Wykeham Chapel<br>of St Nicholas (Grade<br>I 1064471) | High       | Negligible              | Minor<br>adverse     | Temporary &<br>Short term |
| Non-Designat   | ed Farmhouses   |            |                         |                      |                           |
| ECC13/OnSS     | un-named farm<br>(MLI122577)                              | Low        | Minor/Moderate          | Minor<br>adverse     | Temporary &<br>Short term |
| ECC13/OnSS     | Old Three Tuns Farm<br>(MLI122568)                        | Low        | Minor/Moderate          | Minor<br>adverse     | Temporary &<br>Short term |
| ECC13/OnSS     | Woad farm<br>(MLI122578)                                  | Low        | Minor/Moderate          | Minor<br>adverse)    | Temporary &<br>Short term |

#### 20.9.2 National Grid Substation

121. The National Grid substation (NGSS) that the Project's OnSS would connect into is considered here. This would be located within the footprint of ECC14 in the Connection Area which is an indicative search area for this infrastructure.

#### 20.9.2.1 Archaeology (Direct Impacts)

- 122. Apart from the potential direct impact to possible palaeochannels, transient remains, salterns and deposits of peat, which in this location would be anticipated to have been affected by erosion, no cumulative impacts would be predicted. The works associated with the 400kV cable route and the NGSS would not be anticipated to combine to cause a significant impact due to the anticipated level of importance or remains as set out in Table 20.16.
- 123. In both cases archaeological mitigation would be implemented to record archaeological and paleoenvironmental remains.



#### Table 20.16:Potential Common Archaeology Receptors with the NGSS

| Segment | Asset   | Importance | Cumulative<br>Magnitude | Cumulative<br>Effect | Duration  |
|---------|---|------------|-------------------------|----------------------|-----------|
| ECC14   | Disturbance to<br>paleochannels with<br>potential for deposits<br>of geoarchaeological<br>interest  | Medium     | Minor                   | Minor<br>adverse     | Permanent |
| ECC14   | Peat which may<br>contain deposits of<br>paleoenvironmental<br>and geoarchaeological<br>potential   | Low        | Minor to<br>moderate    | Minor<br>adverse     | Permanent |
| ECC14   | Prehistoric (transient/<br>short lived). Worked<br>flint and short-lived<br>features beneath the<br>earlier mudflat deposit<br>– potential<br>Palaeolithic/Mesolithic<br>date (importance<br>affected by likely<br>eroded and ex situ<br>survival). | Low        | Moderate to<br>major    | Minor                | Permanent |
| ECC14   | Salterns (Iron Age to medieval)   | Low        | Moderate to<br>major    | Minor                | Permanent |

#### 20.9.2.2 Cultural Heritage (Setting Impacts)

- 124. Common receptors would be anticipated to be as set out within Table 20.17. These are assets located in the vicinity of the NGSS where effects have been predicted in respect to the construction of the 400Kv cable and the OnSS (see Appendix 20.2). It is noted that all cumulative impacts classified as temporary would only occur if both substations were to be constructed at the same time.
- 125. As indicated, impacts identified for the Project OnSS are not anticipated to combine cumulatively with the NGSS proposals to increase the level of impact already identified. Therefore, no significant cumulative impacts are predicted in respect to heritage receptors through setting change.



### Table 20.17: Potential Common Heritage Receptors with the NGSS

| Segment       | Asset  | Importance | Cumulative<br>Magnitude | Cumulative<br>Effect | Duration                  |
|---------------|--|------------|-------------------------|----------------------|---------------------------|
| Scheduled N   | Nonuments  | •<br>      |                         | •                    |                           |
| ECC13/14      | Wykeham Chapel<br>(1019096)                                  | High       | Negligible              | Minor<br>adverse     | Temporary &<br>Short term |
| Listed Buildi | ings   | ſ          |                         | ſ                    |                           |
| ECC13/14      | The Wykeham<br>Chapel of St<br>Nicholas (Grade I<br>1064471) | High       | Negligible              | Minor<br>adverse     | Temporary &<br>Short term |
| ECC13/14      | Wraggmarsh<br>Farmhouse (Grade II<br>1147603)                | Medium     | Negligible/Minor        | Minor<br>adverse     | Temporary &<br>Short term |
| Non-Designa   | ated Farmhouses  |            |                         |                      |                           |
| ECC13/14      | Crowtree Farm<br>(MLI122916)                                 | Low        | Negligible/Minor        | Minor<br>adverse     | Temporary                 |
| ECC13/14      | ECC13 White House<br>Farm (MLI122917)                        | Low        | Negligible/Minor        | Minor<br>adverse     | Temporary                 |
| ECC13/14      | ECC13 Welland<br>Farm (MLI122918)                            | Low        | Negligible/Minor        | Minor<br>adverse     | Temporary                 |
| ECC13/14      | ECC13 Top Yard<br>Farm (MLI122919)                           | Low        | Negligible/Minor        | Minor<br>adverse     | Temporary                 |
| ECC13/14      | Bottom Yard<br>(MLI122915)                                   | Low        | Negligible/Minor        | Minor<br>adverse     | Temporary                 |



## **20.10** Inter-Relationships

126. Archaeological and Cultural Heritage receptors may also be identified as a receptor within other specialist disciplines such as 'Noise and Vibration', 'Hydrology and Flood Risk' and 'Landscape and Visual Assessment'. Any vibration or water environment effects would be important to understand in respect to potential harm to the fabric or deposits of a heritage asset and this has been referenced as necessary within this chapter, specifically in respect to the potential de-watering of peat. In respect to visual change assessed by the Landscape and Visual Assessment, it is important to understand that the receptor considered within the Archaeology and Cultural Heritage Assessment is the heritage asset itself whilst the receptor considered in the LVIA is the person only. The effects identified by each discipline may well therefore be different. It is recognised that visibility (or not) of proposals does not necessarily equate to adverse effects.

## 20.11 Transboundary Effects

127. No transboundary effects are anticipated.

## 20.12 Conclusions

- 128. The baseline provided by the ES indicates that the Project would be considered to be consistent with the provisions of the NPPF (2023) and EN-1 (2023).
- 129. This assessment has identified known and anticipated archaeological remains (heritage assets) within the Order Limits and has discussed their significance in accordance with the NPPF (2023) paragraph 200 and EN-1 (paragraph 5.9.10).
- 130. Field evaluation comprising a watching brief of site investigations, magnetometer geophysical survey and electromagnetic geophysical survey has been undertaken in accordance with the NPPF (paragraph 200) and EN-1 (2023 paragraph 5.9.11)). Although these surveys have not extended to the entire footprint of the Order Limits it is considered that the baseline presented has allowed a sufficient understanding of the potential significant impact of the proposed development upon archaeological remains. This is in light of the variable historic geography of the Order Limits and the resulting predicted significance of archaeological remains alongside the indicative onshore infrastructure (Figure 3.4.7) and the Schedule of Mitigation (document reference 8.13) which provide for flexibility around preservation in situ of remains of national importance along the entire onshore ECC and 400kV corridor. At the Transition Joint Bay, the only part of the Order Limits outside of the ECC where significant impacts could have been predicted and where preservation in situ is not possible, the geophysical survey has been undertaken and has not highlighted a potential for significant impacts.
- 131. No designated archaeological remains would be physically affected by the Project, this being secured by the Schedule of Mitigation (document reference 8.13) in respect to the Abbey Hills moated site monument (NHLE reference 1016044).
- 132. Other potential remains of national (high) importance which could be present in association with Slackholme deserted medieval village (HER MLI99418) would be avoided



through the use of trenchless techniques, as per the submitted indicative infrastructure plans (Figure 3.4.7.8) and the Schedule of Mitigation (document reference 8.13).

- 133. No significant direct impacts to non-designated archaeological remains are predicted where preservation in situ is not possible, namely the location of the OnSS and the location of the TJB at landfall. In all instances, where significant impacts to non-designated remains are possible along the onshore ECC, the implementation of design measures at the detailed design stage to reference trenchless techniques, micro-siting and no-dig measures would remove significant impacts. On this basis there would be no residual significant impacts to non-designated archaeological remains.
- 134. Overall, any residual insignificant adverse effects should be weighed in the planning balance consistent with paragraph 209 (NPPF) and paragraph 5.9.33 (EN -1 2023). All impacts should be balanced by the public benefits around an electricity supply that the proposals offer. Public benefits could also be achieved through the release of heritage capital that any archaeological fieldwork would trigger.
- 135. No potentially significant indirect impacts have been identified for designated heritage assets or non-designated heritage assets. All indirect impacts are identified as insignificant and predominantly temporary or short term.
- 136. The proposals are considered to be compliant with the legislative and planning policy provisions relevant to heritage.
- 137. All impacts should be balanced by the public benefits around an electricity supply that the Project offers.



Table 20.18: Summary of the Residual Impacts for each Effect

| Asset   | Significance of Effect<br>(Adverse) | Additional Mitigation<br>Measures           | Residual<br>Impact Worst<br>Case | Residual<br>Impact Best<br>Case  |
|---|-------------------------------------|---|----------------------------------|--|
| Construction – Direct Impacts to Non-Designated Assets  |                                     |   |                                  |  |
| <ol> <li>Disturbance to prehistoric (permanent) - Iron Age<br/>occupation features covered by later tidal mudflats.</li> <li>Potentially including -         <ul> <li>area of archaeological interest 2 in ECC2.</li> </ul> </li> </ol>   | Moderate                            | Archaeological<br>recording as<br>necessary | Moderate                         | No change  |
| <ul> <li>2. Disturbance to prehistoric (permanent) - Iron Age agricultural features covered by later tidal mudflats.</li> <li>Potentially including -         <ul> <li>area of archaeological interest 2 in ECC2.</li> </ul> </li> </ul>  | Minor                               | Archaeological<br>recording as<br>necessary | Minor                            | No change  |
| 3. Disturbance to prehistoric (transient/short lived) features. Worked flint and short-lived features beneath the earlier mudflat deposit – potential Palaeolithic/Mesolithic date (importance affected by likely eroded and ex situ survival). Medium levels of importance and the higher level of impact predicted for areas of peat. | Minor to Moderate                   | Archaeological<br>recording as<br>necessary | Minor                            | Minor  |
| 4. Disturbance to prehistoric (transient/ short lived) features. Later worked flint and wooden artefacts such as fishtraps, jetties, trackways (importance affected by likely eroded and ex situ survival).   | Minor to Moderate                   | Archaeological<br>recording as<br>necessary | Minor to<br>Moderate             | Minor<br>(assuming<br>impact to thin<br>deposits of<br>peat at OnSS<br>and TJB only) |
| 5. Disturbance to palaeochannels with potential for deposits of geoarchaeological interest  | Minor                               | Archaeological<br>recording as<br>necessary | Minor                            | Minor  |



| Asset   | Significance of Effect<br>(Adverse) | Additional Mitigation<br>Measures           | Residual<br>Impact Worst<br>Case | Residual<br>Impact Best<br>Case   |
|---|-------------------------------------|---|----------------------------------|---|
| 6. Disturbance to peat which may contain deposits of palaeoenvironmental and geoarchaeological potential  | Minor to Moderate                   | Archaeological<br>recording as<br>necessary | Minor to<br>Moderate             | Minor<br>(assuming<br>impact to<br>thin deposits<br>of peat at<br>OnSS and TJB<br>only) |
| <ul> <li>7. Disturbance to Roman occupation remains.</li> <li>Potentially including - <ul> <li>area of archaeological interest 2 in ECC2.</li> </ul> </li> </ul>  | Moderate                            | Archaeological<br>recording as<br>necessary | Moderate                         | No change   |
| <ul> <li>8. Disturbance to Roman agricultural remains.</li> <li>Potentially including - <ul> <li>Area of archaeological interest 2 in ECC2.</li> <li>Area of archaeological interest 8 in ECC6.</li> <li>Other geophysical anomalies at the western end of ECC8.</li> </ul> </li> </ul>           | Minor                               | Archaeological<br>recording as<br>necessary | Minor                            | No change   |
| <ul> <li>9. Disturbance to Iron Age/Roman salterns.</li> <li>Potentially including –</li> <li>Area of archaeological interest 2 in ECC2.</li> <li>Geophysical anomalies in ECC3.</li> <li>Area of archaeological interest 6 in ECC5</li> <li>Area of archaeological interest 7 in ECC5</li> </ul> | Minor                               | Archaeological<br>recording as<br>necessary | Minor                            | Minor   |
| 10. Disturbance to Anglo Saxon<br>agricultural remains  | Minor                               | Archaeological<br>recording as<br>necessary | Minor                            | No change   |



| Asset   | Significance of Effect<br>(Adverse) | Additional Mitigation<br>Measures           | Residual<br>Impact Worst<br>Case | Residual<br>Impact Best<br>Case |
|---|-------------------------------------|---|----------------------------------|---------------------------------|
| 11. Disturbance to Anglo Saxon salterns   | Minor                               | Archaeological<br>recording as<br>necessary | Minor                            | Minor                           |
| 13. Disturbance to medieval salterns (possibly within areas of archaeological interest 1)   | Minor                               | Archaeological<br>recording as<br>necessary | Minor                            | Minor                           |
| 15. Medieval occupation in area of archaeological interest 9 in ECC7  | Moderate                            | Archaeological<br>recording as<br>necessary | Moderate                         | No change                       |
| <ul> <li>16. Disturbance to medieval occupation other locations outside Slackholme. Potentially including</li> <li>Area of archaeological interest 4 in ECC 2</li> <li>Area of archaeological 10 in ECC6</li> </ul>   | Moderate                            | Archaeological<br>recording as<br>necessary | Moderate                         | No change                       |
| <ul> <li>17. Disturbance to potential medieval agricultural remains.</li> <li>Possible in area of archaeological interest 1</li> <li>Area of archaeological interest 8 in ECC6</li> <li>Area of archaeological interest 12 at ECC8</li> <li>Area of archaeological interest 11 in ECC9 and ECC10</li> </ul> | Minor                               | Archaeological<br>recording as<br>necessary | Minor                            | No change                       |
| <ul> <li>18. Disturbance to remains of post medieval farmsteads/agricultural buildings.</li> <li>MLI118799 in ECC1</li> <li>MLI120254 in ECC5</li> <li>MLI124352 in ECC6</li> <li>MLI124527 in ECC8</li> <li>MLI124196 in ECC9</li> </ul>   | Minor                               | Archaeological<br>recording as<br>necessary | Minor                            | No change                       |



| Asset  | Significance of Effect<br>(Adverse) | Additional Mitigation<br>Measures                        | Residual<br>Impact Worst<br>Case | Residual<br>Impact Best<br>Case |
|--|-------------------------------------|--|----------------------------------|---------------------------------|
| <ul><li>MLI124228 in ECC10</li><li>MLI123126 in ECC12</li></ul>                |                                     |  |                                  |                                 |
| <ul> <li>Potentially area of archaeological interest 12 at<br/>ECC8</li> </ul> |                                     |  |                                  |                                 |
| 19. Disturbance to post medieval field systems                                 | Minor                               | Archaeological<br>recording as<br>necessary              | Minor                            | No change                       |
| 20. Disturbance to post medieval tramline                                      | Minor                               | Archaeological<br>recording as<br>necessary              | Minor                            | No change                       |
| 21. Peat deposits including peat deposits with potential for organic remains   | Minor                               | Archaeological<br>recording and<br>sampling as necessary | Minor                            | No change                       |
| Construction – Indirect Effects to Scheduled Monuments                         |                                     |  |                                  |                                 |
| Abbey Hills Moated Site (1016044)  | Minor adverse                       | None   | Minor<br>adverse<br>(temporary)  | n/a                             |
| King's Hill Motte (1018398)  | Minor adverse                       | None   | Minor<br>adverse<br>(temporary)  | n/a                             |
| Moulton Hall (1018584)   | Minor adverse                       | None   | Minor<br>adverse<br>(temporary)  | n/a                             |
| Wykeham Chapel (1019096)   | Minor adverse                       | None   | Minor<br>adverse<br>(temporary)  | n/a                             |
| Construction – Indirect Effects to Listed Buildings                            |                                     |  |                                  |                                 |
| Chapter 20 Onshore Archaeology and Cultural Heritage                           | Environmental Statement             |  |                                  | Page 97 of 10                   |



| Asset  | Significance of Effect<br>(Adverse) | Additional Mitigation<br>Measures | Residual<br>Impact Worst<br>Case | Residual<br>Impact Best<br>Case |
|--|-------------------------------------|-----------------------------------|----------------------------------|---------------------------------|
| Church of St James (Grade I 1308415)                         | Minor adverse                       | None                              | Minor<br>adverse<br>(temporary)  | n/a                             |
| Coupledyke Hall (Grade II 1308426)                           | Minor adverse                       | None                              | Minor<br>adverse<br>(temporary)  | n/a                             |
| The Wykeham Chapel of St Nicholas (Grade I 1064471)          | Minor adverse                       | None                              | Minor<br>adverse<br>(temporary)  | n/a                             |
| The Gables (Grade II 1146546)                                | Minor adverse                       | None                              | Minor<br>adverse<br>(temporary)  | n/a                             |
| Wraggmarsh Farmhouse (Grade II 1147603)                      | Minor adverse                       | None                              | Minor<br>adverse<br>(temporary)  | n/a                             |
| Construction – Indirect Effects to Non-Designated Farmhouses |                                     |                                   |                                  |                                 |
| Lowgate Farm (HER reference MLI118859)                       | Minor adverse                       | None                              | Minor<br>adverse<br>(temporary)  | n/a                             |
|  |                                     |                                   |                                  | n/a                             |
| Chestnut Farm (HER reference MLI118860)                      | Minor adverse                       | None                              | Minor<br>adverse<br>(temporary)  | n/a                             |
| Quaker's Hill Farmhouse (MLI118805).                         | Minor adverse                       | None                              | Minor<br>adverse<br>(temporary)  | n/a                             |



| Asset                                 | Significance of Effect<br>(Adverse) | Additional Mitigation<br>Measures | Residual<br>Impact Worst<br>Case | Residual<br>Impact Best<br>Case |
|---------------------------------------|-------------------------------------|-----------------------------------|----------------------------------|---------------------------------|
| Field Farm (MLI118858)                | Minor adverse                       | None                              | Minor                            | n/a                             |
|                                       |                                     |                                   | adverse                          |                                 |
|                                       |                                     |                                   | (temporary)                      |                                 |
| un-named farmstead (MLI118865)        | Minor adverse                       | None                              | Minor                            | n/a                             |
|                                       |                                     |                                   | adverse                          |                                 |
|                                       |                                     |                                   | (temporary)                      |                                 |
| Malt Farm (MLI118869)                 | Minor adverse                       | None                              | Minor                            | n/a                             |
|                                       |                                     |                                   | adverse                          |                                 |
|                                       |                                     |                                   | (temporary)                      |                                 |
| Slackholme End House Farm (MLI118880) | Minor adverse                       | None                              | Minor                            | n/a                             |
|                                       |                                     |                                   | adverse                          |                                 |
|                                       |                                     |                                   | (temporary)                      |                                 |
| Jasmine Cottage (MLI118883)           | Minor adverse                       | None                              | Minor                            | n/a                             |
|                                       |                                     |                                   | adverse                          |                                 |
|                                       |                                     |                                   | (temporary)                      |                                 |
| Willcox Farm (MLI119832)              | Minor adverse                       | None                              | Minor                            | n/a                             |
|                                       |                                     |                                   | adverse                          |                                 |
|                                       |                                     |                                   | (temporary)                      |                                 |
| The Grange (MLI41973)                 | Minor adverse                       | None                              | Minor                            | n/a                             |
|                                       |                                     |                                   | adverse                          |                                 |
|                                       |                                     |                                   | (temporary)                      |                                 |
| Fir Tree Farm (MLI119851)             | Minor adverse                       | None                              | Minor                            | n/a                             |
|                                       |                                     |                                   | adverse                          |                                 |
|                                       |                                     |                                   | (temporary)                      |                                 |
| Bristol Farm (MLI119871)              | Minor adverse                       | None                              | Minor                            | n/a                             |
|                                       |                                     |                                   | adverse                          |                                 |
|                                       |                                     |                                   | (temporary)                      |                                 |



| Asset                        | Significance of Effect<br>(Adverse) | Additional Mitigation<br>Measures | Residual<br>Impact Worst<br>Case | Residual<br>Impact Best<br>Case |
|------------------------------|-------------------------------------|-----------------------------------|----------------------------------|---------------------------------|
| Rookery Farm (MLI120243)     | Minor adverse                       | None                              | Minor                            | n/a                             |
|                              |                                     |                                   | adverse                          |                                 |
|                              |                                     |                                   | (temporary)                      |                                 |
| Rivulet House (MLI120244)    | Minor adverse                       | None                              | Minor                            | n/a                             |
|                              |                                     |                                   | adverse                          |                                 |
|                              |                                     |                                   | (temporary)                      |                                 |
| Bank House (MLI120267)       | Minor adverse                       | None                              | Minor                            | n/a                             |
|                              |                                     |                                   | adverse                          |                                 |
|                              |                                     |                                   | (temporary)                      |                                 |
| Bristol Farm (MLI119871)     | Minor adverse                       | None                              | Minor                            | n/a                             |
|                              |                                     |                                   | adverse                          |                                 |
|                              |                                     |                                   | (temporary)                      |                                 |
| Sycamore Lodge (MLI120271)   | Minor adverse                       | None                              | Minor                            | n/a                             |
|                              |                                     |                                   | adverse                          |                                 |
|                              |                                     |                                   | (temporary)                      |                                 |
| Decoy Farm (MLI124366)       | Minor adverse                       | None                              | Minor                            | n/a                             |
|                              |                                     |                                   | adverse                          |                                 |
|                              |                                     |                                   | (temporary)                      |                                 |
| Willoughby Farm (MLI1124362) | Minor adverse                       | None                              | Minor                            | n/a                             |
|                              |                                     |                                   | adverse                          |                                 |
|                              |                                     |                                   | (temporary)                      |                                 |
| Avenue Farm (MLI1124368)     | Minor adverse                       | None                              | Minor                            | n/a                             |
|                              |                                     |                                   | adverse                          |                                 |
|                              |                                     |                                   | (temporary)                      |                                 |
| Walnut Farm (MLI1124369)     | Minor adverse                       | None                              | Minor                            | n/a                             |
|                              |                                     |                                   | adverse                          |                                 |
|                              |                                     |                                   | (temporary)                      |                                 |



| Asset                            | Significance of Effect<br>(Adverse) | Additional Mitigation<br>Measures | Residual<br>Impact Worst<br>Case | Residual<br>Impact Best<br>Case |
|----------------------------------|-------------------------------------|-----------------------------------|----------------------------------|---------------------------------|
| Bleak House (MLI124370)          | Minor adverse                       | None                              | Minor                            | n/a                             |
|                                  |                                     |                                   | adverse                          |                                 |
|                                  |                                     |                                   | (temporary)                      |                                 |
| Hawthorn Farm (MLI124441)        | Minor adverse                       | None                              | Minor                            | n/a                             |
|                                  |                                     |                                   | adverse                          |                                 |
|                                  |                                     |                                   | (temporary)                      |                                 |
| Farmstead (MLI124437)            | Minor adverse                       | None                              | Minor                            | n/a                             |
|                                  |                                     |                                   | adverse                          |                                 |
|                                  |                                     |                                   | (temporary)                      |                                 |
| Farmstead (MLI124438)            | Minor adverse                       | None                              | Minor                            | n/a                             |
|                                  |                                     |                                   | adverse                          |                                 |
|                                  |                                     |                                   | (temporary)                      |                                 |
| Farmstead (MLI124526)            | Minor adverse                       | None                              | Minor                            | n/a                             |
|                                  |                                     |                                   | adverse                          |                                 |
|                                  |                                     |                                   | (temporary)                      |                                 |
| Old Leake Farmstead (MLI124541)  | Minor adverse                       | None                              | Minor                            | n/a                             |
|                                  |                                     |                                   | adverse                          |                                 |
|                                  |                                     |                                   | (temporary)                      |                                 |
| Faunt Bridge Cottage (MLI124506) | Minor adverse                       | None                              | Minor                            | n/a                             |
|                                  |                                     |                                   | adverse                          |                                 |
|                                  |                                     |                                   | (temporary)                      |                                 |
| Swinedike Farm (MLI124199)       | Minor adverse                       | None                              | Minor                            | n/a                             |
|                                  |                                     |                                   | adverse                          |                                 |
|                                  |                                     |                                   | (temporary)                      |                                 |
| Reesons Farmstead (MLI124216)    | Minor adverse                       | None                              | Minor                            | n/a                             |
|                                  |                                     |                                   | adverse                          |                                 |
|                                  |                                     |                                   | (temporary)                      |                                 |



| Asset                        | Significance of Effect<br>(Adverse) | Additional Mitigation<br>Measures | Residual<br>Impact Worst<br>Case | Residual<br>Impact Best<br>Case |
|------------------------------|-------------------------------------|-----------------------------------|----------------------------------|---------------------------------|
| Ings Farm (MLI124255)        | Minor adverse                       | None                              | Minor                            | n/a                             |
|                              |                                     |                                   | adverse                          |                                 |
|                              |                                     |                                   | (temporary)                      |                                 |
| Little Beeches (MLI124256)   | Minor adverse                       | None                              | Minor                            | n/a                             |
|                              |                                     |                                   | adverse                          |                                 |
|                              |                                     |                                   | (temporary)                      |                                 |
| Marsh Farm (MLI121210)       | Minor adverse                       | None                              | Minor                            | n/a                             |
|                              |                                     |                                   | adverse                          |                                 |
|                              |                                     |                                   | (temporary)                      |                                 |
| Sandholme Farm (MLI123089)   | Minor adverse                       | None                              | Minor                            | n/a                             |
|                              |                                     |                                   | adverse                          |                                 |
|                              |                                     |                                   | (temporary)                      |                                 |
| White House Farm (MLI123119) | Minor adverse                       | None                              | Minor                            | n/a                             |
|                              |                                     |                                   | adverse                          |                                 |
|                              |                                     |                                   | (temporary)                      |                                 |
| Lloyds Farm (MLI123128)      | Minor adverse                       | None                              | Minor                            | n/a                             |
|                              |                                     |                                   | adverse                          |                                 |
|                              |                                     |                                   | (temporary)                      |                                 |
| Lentons Farm (MLI123053)     | Minor adverse                       | None                              | Minor                            | n/a                             |
|                              |                                     |                                   | adverse                          |                                 |
|                              |                                     |                                   | (temporary)                      |                                 |
| Old Farm (MLI121208)         | Minor adverse                       | None                              | Minor                            | n/a                             |
|                              |                                     |                                   | adverse                          |                                 |
|                              |                                     |                                   | (temporary)                      |                                 |
| Crowtree Farm (MLI122916     | Minor adverse                       | None                              | Minor                            | n/a                             |
|                              |                                     |                                   | adverse                          |                                 |
|                              |                                     |                                   | (temporary)                      |                                 |



| Asset                           | Significance of Effect<br>(Adverse) | Additional Mitigation<br>Measures | Residual<br>Impact Worst<br>Case | Residual<br>Impact Best<br>Case |
|---------------------------------|-------------------------------------|-----------------------------------|----------------------------------|---------------------------------|
| Hills Farm (MLI122565)          | Minor adverse                       | None                              | Minor                            | n/a                             |
|                                 |                                     |                                   | adverse                          |                                 |
|                                 |                                     |                                   | (temporary)                      |                                 |
| Old Three Tuns Farm (MLI122568) | Minor adverse                       | None                              | Minor                            | n/a                             |
|                                 |                                     |                                   | adverse                          |                                 |
|                                 |                                     |                                   | (temporary)                      |                                 |
| un-named farm (MLI122577)       | Minor adverse                       | None                              | Minor                            | n/a                             |
|                                 |                                     |                                   | adverse                          |                                 |
|                                 |                                     |                                   | (temporary)                      |                                 |
| Woad farm (MLI122578)           | Minor adverse                       | None                              | Minor                            | n/a                             |
|                                 |                                     |                                   | adverse                          |                                 |
|                                 |                                     |                                   | (temporary)                      |                                 |
| Welland House farm (MLI122570)  | Minor adverse                       | None                              | Minor                            | n/a                             |
|                                 |                                     |                                   | adverse                          |                                 |
|                                 |                                     |                                   | (temporary)                      |                                 |
| Vicarage Farm (MLI122878)       | Minor adverse                       | None                              | Minor                            | n/a                             |
|                                 |                                     |                                   | adverse                          |                                 |
|                                 |                                     |                                   | (temporary)                      |                                 |
| Surfleet farm (MLI122569)       | Minor adverse                       | None                              | Minor                            | n/a                             |
|                                 |                                     |                                   | adverse                          |                                 |
|                                 |                                     |                                   | (temporary)                      |                                 |
| un-named farm (MLI122909)       | Minor adverse                       | None                              | Minor                            | n/a                             |
|                                 |                                     |                                   | adverse                          |                                 |
|                                 |                                     |                                   | (temporary)                      |                                 |
| Manor Farm (MLI122876)          | Minor adverse                       | None                              | Minor                            | n/a                             |
|                                 |                                     |                                   | adverse                          |                                 |
|                                 |                                     |                                   | (temporary)                      |                                 |



| Asset   | Significance of Effect<br>(Adverse) | Measures | Residual<br>Impact Worst<br>Case | Case |
|---|-------------------------------------|----------|----------------------------------|------|
| Bottom Yard (MLI122915)                                   | Minor adverse                       | None     | Minor<br>adverse<br>(temporary)  | n/a  |
| Construction – Indirect Effects to Non-Designated Medie   | eval Earthworks                     | 1        | 1                                |      |
| Medieval enclosures (MLI98638)                            | Minor adverse                       | None     | Minor<br>adverse<br>(temporary)  | n/a  |
| Medieval enclosures and field system (MLI98639)           | Minor adverse                       | None     | Minor<br>adverse                 | n/a  |
| Construction – Indirect Effects to Non-Designated Deser   | rted Medieval Villages              |          |                                  |      |
| Slackholme (MLI99418)                                     | Minor adverse                       | None     | Minor<br>adverse<br>(temporary)  | n/a  |
| Construction – Indirect Effects to Historic Landscape Cha | aracter and Hedgerows               |          |                                  |      |
| Skegness Holiday Coast - The Grazing Marshes              | Minor adverse                       | None     | Minor<br>adverse<br>(temporary)  | n/a  |
| The Mablethorpe Outmarsh - The Grazing Marshes            | Minor adverse                       | None     | Minor<br>adverse<br>(temporary)  | n/a  |
| Townlands - The Wash                                      | Minor adverse                       | None     | Minor<br>adverse<br>(temporary)  | n/a  |
| Eastern Fens - The Fens                                   | Minor adverse                       | None     | Minor<br>adverse<br>(temporary)  | n/a  |



| Asset   | Significance of Effect<br>(Adverse) | Additional Mitigation<br>Measures | Residual<br>Impact Worst<br>Case | Residual<br>Impact Best<br>Case |
|---|-------------------------------------|-----------------------------------|----------------------------------|---------------------------------|
| Reclaimed Coastal Fringe - The Wash   | Minor adverse                       | None                              | Minor<br>adverse<br>(temporary)  | n/a                             |
| Reclaimed Wash Farmlands - The Wash   | Minor adverse                       | None                              | Minor<br>adverse<br>(temporary)  | n/a                             |
| Bicker Haven - The Wash   | Minor adverse                       | None                              | Minor<br>Adverse<br>(permanent)  | n/a                             |
| Construction – Direct Effects to Historic Landscape Character<br>Hedgerows qualifying as important under historic criteria<br>(Annex 2 Appendix 20.2) | _                                   | None                              | Minor<br>adverse<br>(temporary)  | n/a                             |
| Skegness Holiday Coast - The Grazing Marshes  | Minor adverse                       | None                              | Minor<br>adverse<br>(temporary)  | n/a                             |
| The Mablethorpe Outmarsh - The Grazing Marshes  | Minor adverse                       | None                              | Minor<br>adverse<br>(temporary)  | n/a                             |
| Townlands - The Wash  | Minor adverse                       | None                              | Minor<br>adverse<br>(temporary)  | n/a                             |
| Eastern Fens - The Fens   | Minor adverse                       | None                              | Minor<br>adverse<br>(temporary)  | n/a                             |



| Asset   | Significance of Effect<br>(Adverse) | Additional Mitigation<br>Measures | Residual<br>Impact Worst<br>Case | Case |
|---|-------------------------------------|-----------------------------------|----------------------------------|------|
| Reclaimed Coastal Fringe - The Wash                       | Minor adverse                       | None                              | Minor<br>adverse<br>(temporary)  | n/a  |
| Reclaimed Wash Farmlands - The Wash                       | Minor adverse                       | None                              | Minor<br>adverse<br>(temporary)  | n/a  |
| Operation and Maintenance – Indirect Effects to Schedule  | d Monuments                         |                                   |                                  |      |
| Wykeham Chapel (1019096)                                  | Minor adverse                       | Screen planting                   | Neutral                          | n/a  |
| Operation and Maintenance – Indirect Effects to Listed Bu | ildings                             |                                   |                                  |      |
| The Wykeham Chapel of St Nicholas (Grade I 1064471)       | Minor adverse                       | Screen planting                   | Neutral                          | n/a  |
| The Gables (Grade II 1146546)                             | Minor adverse                       | Screen planting                   | Neutral                          | n/a  |
| Wraggmarsh Farmhouse (Grade II 1147603)                   | Minor adverse                       | Screen planting                   | Neutral                          | n/a  |
| Operation and Maintenance – Indirect Effects to Non-Des   | ignated Farmhouses                  |                                   |                                  |      |
| Hills Farm (MLI122565)                                    | Minor adverse                       | Screen planting                   | Neutral                          | n/a  |
| Old Three Tuns Farm (MLI122568)                           | Minor adverse                       | Screen planting                   | Neutral                          | n/a  |
| un-named farm (MLI122577)                                 | Minor adverse                       | Screen planting                   | Neutral                          | n/a  |
| Woad farm (MLI122578)                                     | Minor adverse                       | Screen planting                   | Neutral                          | n/a  |
| Welland House farm (MLI122570)                            | Minor adverse                       | Screen planting                   | Neutral                          | n/a  |
| Vicarage Farm (MLI122878)                                 | Minor adverse                       | Screen planting                   | Neutral                          | n/a  |
| Surfleet farm (MLI122569)                                 | Minor adverse                       | Screen planting                   | Neutral                          | n/a  |
| Manor Farm (MLI122876)                                    | Minor adverse                       | Screen planting                   | Neutral                          | n/a  |
| Operation and Maintenance – Effects to Historic Landscap  | e Character                         |                                   |                                  |      |
| Bicker Haven - The Wash                                   | Minor adverse                       | None                              | Minor<br>Adverse<br>(permanent)  | n/a  |



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