

Hornsea Project Three
Offshore Wind Farm



Hornsea Project Three Offshore Wind Farm

Environmental Statement:
Volume 6, Annex 3.2 - Hedgerow Survey

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Date: May 2018

Environmental Impact Assessment

Environmental Statement

Volume 6

Annex 3.2 – Hedgerow Survey

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Glossary

Term	Definition
Archaeophyte	A plant species which is non-native to a geographical region, but which was an introduced species in "ancient" times (prior to 1492), rather than being a modern introduction.
Brash	The above ground cuttings of a tree or bush, usually comprising branches, tops of trees and dead branches not suitable for timber.
Coppiced	A traditional method of cutting trees to ground level and allowing the stumps to regenerate, often with multiple stems.
Compound	A collective term used to refer to secondary construction compounds along the onshore cable corridor as well as the landfall construction compound (defined in detail in volume 1, chapter 3: Project Description). Although, there is also a main construction compound, this is referred to individually due to its distant location relative to the onshore cable corridor.
Herbaceous	Plants that have no persistent woody stem above ground.
Micrositing	Identifying a small, distinct area or habitat within a particular ecosystem for works to be undertaken.
Neophyte	A plant species which is not native to a geographical region, and was introduced in recent history (after 1492).
Perennial	A plant that lives for more than two years.
Phase 1 Habitat Survey	A field survey technique which provides a relatively rapid system to record and map semi-natural vegetation and other wildlife habitats.
Preliminary Ecological Appraisal	The first stage in any site ecological assessment. It has two main elements; an ecological desk study and an extended Phase 1 habitat survey.
Survey Area	The survey area for the hedgerow survey comprised the PEIR onshore cable corridor search area and potential alternative routes (as shown on Figure 1.1).

Acronyms

Acronym	Description
EIA	Environmental Impact Assessment
HVAC	High Voltage Alternating Current
HVDC	High Voltage Direct Current
PEA	Preliminary Ecological Appraisal
PEIR	Preliminary Environmental Information Report

Units

Unit	Description
GW	Gigawatt (power)
m	Metre (distance)
m ²	metre squared (area)
km	Kilometre (distance)

1. Introduction

1.1 Development background

- 1.1.1.1 Ørsted is promoting an application for a development consent order ('DCO') for the Hornsea Project Three Offshore Wind Farm (hereafter referred to as 'Hornsea Three') a proposed offshore wind farm located in the southern North Sea. This report focuses on the onshore components of Hornsea Three (as described in volume 1, chapter 3: Project Description).
- 1.1.1.2 At the time of ecological survey scoping in December 2016, a 200 m wide cable corridor search area had been identified by Ørsted. The 200 m wide search area included the locations of the proposed onshore cable corridor, HVAC booster station, HVDC converter/HVAC substation, Norwich Main National Grid substation and construction compounds and was the focus of the Preliminary Environmental Information Report (PEIR) published in July 2017. This search area is hereafter referred to as the 'PEIR onshore cable corridor search area'. Following this, some alternate route considerations were added. Ecological survey area boundaries were therefore based on the PEIR onshore cable corridor search area and alternate routes considered, with an appropriate survey buffer added for some survey types where necessary. The survey area applicable to this report is shown in Figure 1.1.
- 1.1.1.3 Subsequently, a route refinement process has been undertaken to refine the Hornsea Three onshore cable corridor to an approximately 80 m wide corridor (referred to as the 'onshore cable corridor') as well as identify locations of compounds, access roads and storage areas. The location of permanent and temporary land take associated with the HVDC converter/HVAC substation and HVAC booster station has also been refined. This process is described in more detail in volume 1, chapter 4: Site Selection and Alternatives.
- 1.1.1.4 A full description of Hornsea Three is provided in volume 1, chapter 3: Project Description.

1.2 Ecology background

- 1.2.1.1 A Preliminary Ecological Appraisal (PEA) of the onshore components of Hornsea Three was undertaken in 2016 (RPS, 2016). This included a Phase 1 habitat survey of an area comprising a 500 m wide corridor (including the PEIR onshore cable corridor search area) and an ecological desk study, whereby protected species data was requested from the Norfolk Biodiversity Information Service (NBIS).
- 1.2.1.2 Subsequently, an additional Phase 1 habitat survey was undertaken to cover 30 areas which were either not accessible during the PEA, or became relevant to Hornsea Three due to design refinements (see volume 6, annex 3.1 of the Environmental Statement).

- 1.2.1.3 The PEA and the additional Phase 1 habitat survey highlighted the presence of a number of species-rich hedgerows located within the survey area (defined in section 2.1). However, Phase 1 habitat survey is a rapid assessment methodology that does not collect detailed information on hedgerow. Therefore an additional hedgerow survey and condition assessment was required to inform the Environmental Impact Assessment (EIA) process, and is the focus of this report.

1.3 Legislative background

- 1.3.1.1 The Hedgerow Regulations (1997) aims to protect important hedgerows in the countryside by controlling their removal through a system of notification prior to works taking place. Where hedgerow removal is necessary to enable a development that has been granted planning permission, prior notification is not required. However, it is likely that a Secretary of State will apply similar criteria when determining planning applications that involve hedgerow removal, i.e. will seek to establish the relative importance of hedgerows to be removed.
- 1.3.1.2 Hedgerows are regarded as being of importance under the Hedgerow Regulations if:
- They have been in existence for 30 years or more; and
 - They satisfy one of the criteria set out in Part II of Schedule 1 of the Regulations.
- 1.3.1.3 Criteria set out in Part II of Schedule 1 of the Regulations are complex and include archaeological, historical, wildlife and landscape criteria.
- 1.3.1.4 Hedgerows are also Habitats of Principal Importance under the Natural Environment and Rural Communities (NERC) Act 2006. The definition of hedgerows for the purposes of this Act is much broader in scope and includes any boundary line of trees or shrubs over 20 m long and less than 5 m wide, and where any gaps between the trees or shrub species are less than 20 m wide. All hedgerows consisting predominantly (i.e. 80% or more cover) of at least one woody UK native species are included within this priority habitat.
- 1.3.1.5 Section 40 NERC Act places a duty on all public authorities (including the Secretary of State) to have regard to the purpose of conserving biodiversity in all of their functions. This duty extends to restoring or enhancing habitats or populations. Section 41 of the NERC Act requires the Secretary of State to establish and maintain a list of habitats (HPI) and species (SPI) of principal importance (also referred to as Priority Species and priority habitats) in relation to this duty. The Secretary of State must also take measures to further the conservation of these habitats and species and promote the taking of such measures by others.

1.3.1.6 The National Planning Policy Framework (NPPF) states that:

“planning permission should be refused for development resulting in the loss or deterioration of irreplaceable habitats, including ancient woodland and the loss of aged or veteran trees found outside ancient woodland, unless the need for, and benefits of, the development in that location clearly outweigh the loss”.

1.3.1.7 Central and local government policy now points towards ecological enhancement on development sites. For example, national planning policy (NPPF) states that *“plan policies should promote opportunities for the incorporation of beneficial biodiversity and geological features within the design of development”.*

1.4 The brief and objectives

1.4.1.1 The brief of this hedgerow survey and condition assessment was to:

- Undertake a survey of all species-rich hedgerows identified during the Phase 1 Habitat survey within the PEIR onshore cable corridor search area and likely to be affected by Hornsea Three, using the methods detailed in the Hedgerow Survey Handbook (Defra, 2007, second edition); and
- Provide a survey report supported by appropriate digitised mapping. The report was to include the survey methods, including any limitations, the survey results and recommendations for pragmatically managing any ecological constraints relating to hedgerows that could be identified.

1.4.1.2 The objective of the survey was to provide more detailed information on the condition and species richness of hedgerows within the survey area to enable the assessment of potential impacts of Hornsea Three on hedgerows within volume 3, chapter 3: Ecology and Nature Conservation of the Environmental Statement.

2. Methodology

2.1 Survey area

- 2.1.1.1 For the purpose of the hedgerow survey, the survey area was defined to comprise the PEIR onshore cable corridor search area and the potential alternative routes, as shown in Appendix A, Figure 1.1.
- 2.1.1.2 Within this survey area, hedgerows were identified for additional survey based on the findings of the PEA (RPS, 2016) and the additional Phase 1 habitat survey area (see volume 6, annex 3.1: Desk Study and Phase 1 Habitat Report). Hedgerow units were given unique reference codes used throughout the survey and this report. The location of surveyed hedgerows is shown in Appendix A, Figure 2.1 to 2.36.
- 2.1.1.3 The main construction compound to the east of the Hornsea Three onshore cable corridor is outside of the survey area for this study and comprises existing hard standing with negligible ecological importance. Therefore, a detailed survey of baseline conditions was not required.

2.2 Field survey

2.2.1 Survey methodology

- 2.2.1.1 Surveys were carried out between 12 June and 6 July 2017, using standard hedgerow survey methodology (Defra, 2007).
- 2.2.1.2 Each hedgerow unit was surveyed along 30 m-long survey units located every 100 m along its length. The number of survey units per hedgerow unit depended on its total length; for example, a hedgerow unit which had a total length of 300 m would have three 30 m-long survey units. When the hedgerow was less than 30 m long it was surveyed along its entire length. Each survey unit was given a unique reference code and its position and attributes recorded using a handheld GPS mapping device programmed with an electronic version of the Defra hedgerow survey form.
- 2.2.1.3 Hedgerows were surveyed from one side only (referred to as side A) though some features from the opposite side (referred to as side B) were also recorded where appropriate. In cases where the hedgerow ran parallel to the survey area, the side facing into the survey area was classed as side A. With hedgerows crossing the survey area, the most accessible side was classed as side A. Where side A was adjacent to a road that was deemed unsafe to survey from, the opposite side of the hedge was surveyed instead.
- 2.2.1.4 Table 2.1 shows the list of attributes that were recorded.

Table 2.1: Attributes recorded for each survey unit.

Attribute	Description or possible values
Object ID	Unique survey unit code
Hedge ID	Unique hedgerow unit code
Hedge type	Shrubby hedgerow, shrubby hedgerow with line of trees, line of trees
Connections – End 1 / 2	Number of connections at end 1 / 2
Total connections	Total number of connections
Extent of survey	30 m section or whole hedgerow (when shorter than 30 m)
Adjacent land use (side A / B)	Arable crop, Uncropped margin, Improved grassland, Semi-improved grassland, Unimproved grassland, Young woodland, Semi-mature woodland, Mature woodland, Major road, Minor road, Track (unsurfaced), Footpath, Rail, Canal, River, Stream, Lake/pond, Other.
Bank Height Side A	In metres, to nearest 0.25 m (including 0 where no bank is present)
Average herb vegetation height (side A)	In centimetres, to nearest 5 cm
Presence of fence	None, on side A, on side B, on both sides
Presence of external dry ditch	None, on side A, on side B, on both sides
Presence of external wet ditch	None, on side A, on side B, on both sides
Presence of internal dry ditch	No / Yes
Presence of internal wet ditch	No / Yes
Width of Undisturbed Ground (side A)	in metres to nearest 0.5 m
Average width of perennial herbaceous vegetation (side A)	in metres to nearest 0.5 m
% Cover of nettles (side A)	to nearest 5%
% Cover of cleavers (side A)	to nearest 5%
% Cover of docks (side A)	to nearest 5%
Non-native ground flora species present in hedge-bottom (side A)	Species list
Non-native woody species present in shrub layer (side A)	Species list
Hedgerow shape	Trimmed & dense, Intensively managed, Untrimmed, Tall & leggy, Untrimmed with outgrowth, Recently coppiced, Recently laid, Other.
Average height excluding bank	in metres, to nearest 0.25 m
Average width at the widest point of canopy excluding bank	in metres, to nearest 0.25 m

Attribute	Description or possible values
Percentage gaps	to nearest 5%
Any gaps >5m?	No / Yes
Average height of base of canopy	in metres, to nearest 0.25 m
Isolated Hedgerow Trees	Presence/absence, species, DBH to nearest 5 cm
Woody species	List of species with, for each species, % cover and number of individuals
Notes	Including evidence of fauna

2.2.2 Surveyors

2.2.2.1 The survey was undertaken by Assistant Ecologist Charlotte Hewitt BSc (Hons) MSc GradCIEEM, and Ecological Consultants Karen Akehurst BSc (Hons) MSc GradCIEEM, Stephen Hewitt BSc (Hons) ACIEEM and Rhiannon Williams BSc (Hons) MRes GradCIEEM.

2.3 Data processing

2.3.1.1 Each hedgerow was re-assessed in accordance with the Hedgerow Survey Handbook (Defra, 2007) as being species-rich or species-poor. The definition for a species-rich hedgerow in the Hedgerow Survey Handbook (Defra, 2007), which differs from that used for the Phase 1 habitat survey methodology (JNCC, 2010), is one where the structural species that make up the hedge include at least five woody species that are native to UK or are archaeophytes. In this regard, it is noted that dog rose (*Rosa canina*) is counted as a woody species in the Defra methodology, but bramble (*Rubus fruticosus*) and climbers are not. In the Defra methodology the status of sycamore (*Acer pseudoplatanus*) is considered to be uncertain and therefore it is included in the woody species count.

2.3.1.2 The condition of each hedgerow, both species-rich and species-poor, was determined as favourable or unfavourable. To be in favourable condition a hedgerow must meet all the thresholds listed in Table 2.2.

2.3.1.3 The species-richness estimation and the condition assessment were undertaken at the scale of the hedgerow unit with the assumption that the information collected in the survey units within each hedgerow unit was representative of the whole hedgerow unit. Data collected in survey units were aggregated using rules compatible with the threshold definitions listed in Table 2.2.

Table 2.2: Favourable condition criteria (Defra, 2007).

Attribute	Threshold	Method for determining condition
Undisturbed ground & perennial herbaceous vegetation cover	Undisturbed ground at least 2 m wide	Estimate average width of undisturbed (uncultivated) ground from the centre-line of the hedgerow. Automatically favourable if borders grassland.
	Herbaceous vegetation at least 1 m wide	Estimate average width of perennial herbaceous vegetation between the centre-line of the hedgerow and adjacent disturbed ground.
Nutrient enrichment	Less than 20% combined cover of nettles, cleavers and docks	Estimate percentage cover of nettles, cleavers and docks within a 2 m wide band alongside the hedgerow.
Recently introduced, non-native species	Maximum cover of non-native herbaceous species is 10%	Estimate cover of all non-native herbaceous species as percentage of area of 2 m band extending from centre-line of hedgerow.
	Maximum cover of non-native woody species is 10%	Estimate cover of all non-native woody species as percentage of area of vertical face of hedgerow.
Size	Hedgerow at least 1 m high	Measure average height excluding bank.
	Hedgerow at least 1.5 m wide	Measure average width at widest point of hedgerow canopy, shoot tip to shoot tip.
	Cross-sectional area at least 3 m ²	Take the average height and width for the hedgerow, and multiply to give the cross-sectional area.
Integrity / continuity	Less than 10% gaps	Estimate total length of gaps present as a percentage of total hedgerow length or 30 m section (as appropriate).
	No gaps >5 m wide	Record if any gaps >5 m wide excluding access points.
	Base of canopy less than 0.5 m above ground	Estimate average height from the base of the hedgerow to the lowest leafy growth.

2.4 Limitations

2.4.1.1 The survey area for this study was based on the PEIR onshore cable corridor search area and some alternative route options considered after issue of the PEIR. Following completion of the survey the locations of the 80 m onshore cable corridor, construction compounds, access roads and storage areas have been finalised. At some locations the finalised cable corridor and associated infrastructure fall outside of the survey area. As these areas were identified in November 2017 and outside of the survey season it was not possible to undertake hedgerow surveys in these areas which amount to 52.15 ha (9.80% of the onshore cable corridor and associated infrastructure area).

- 2.4.1.2 Furthermore, although the status of landowner permission to access survey areas was reviewed on a weekly basis during the survey season for hedgerows, 19 of the 127 hedgerow units identified for survey could not be surveyed due to the absence of landowner permission. Hedgerows that could not be surveyed have a combined length of 6.7 km (17.3% of the total) and their location is shown in Appendix A, Figure 2.1 to 2.36.
- 2.4.1.3 Although the areas described above were not covered in the field survey, they were covered by desk study and Phase 1 habitat survey as part of the PEA (RPS, 2016). This data, combined with the large volume of field data collected in the remainder of the survey area, provides a likely composition of the unsurveyed areas and is considered sufficient to inform the impact assessment on hedgerows reported in volume 3, chapter 3: Ecology and Nature Conservation of the Environmental Statement.
- 2.4.1.4 It is furthermore noted that where potential impacts are identified in areas where the hedgerow survey could not be completed, these areas will be checked during pre-construction surveys and where required, appropriate mitigation identified.

3. Results

3.1 General results

- 3.1.1.1 A total of 108 hedgerow units were surveyed, with a combined total length of 31.8 km (the location of all hedgerows identified for survey, including those which were not surveyed due to access limitations, are shown in Appendix A, Figure 2.1 to 2.36).
- 3.1.1.2 During the survey, 301 survey units (30 m long) were surveyed in detail, covering a combined length of 9.03 km. This represents approximately 30% of the hedgerows to which access was granted which is in accordance with best practice guidance (Defra, 2007).
- 3.1.1.3 One survey unit and the corresponding hedgerow unit (H1D6) were observed not to be a hedgerow, but a line of overgrown shrub or trees with approximately 80% gaps. This unit was therefore screened out from any further survey.
- 3.1.1.4 As summarised in Table 3.1, 47 hedgerow units were assessed as being species-rich under the Hedgerow Survey Handbook Methodology (i.e. being composed of at least five woody species that are native to UK or are archaeophytes). This comprised 43.9% of the total number of hedgerow units that were surveyed, and 41.0% of their combined length. Sixty of the hedgerows surveyed were found to be species-poor under the Hedgerow Survey Handbook Methodology. The location of species-rich and species-poor hedgerows are shown in Appendix A, Figure 2.1 to 2.36 and are listed in Table 3.1.

Table 3.1: Hedgerow units identified as being species-rich.

Status	Hedgerow units	Proportion (%) of species-rich hedgerows compared to total surveyed (based on number)	Proportion (%) of species-rich hedgerows compared to total surveyed (based on combined length)
Species-rich	H1A10, H1A6a, H1A7, H1B1, H1B10, H1B11, H1B2, H1B3, H1B7, H1B8, H1C13, H1C15, H1C16, H1C17, H1C18, H1C20, H1C21, H1C23, H1C24, H1C25, H1C26, H1C27, H1C28, H1C5, H1C6, H1C9, H1D2, H1D7, H1E11, H1E3, H1E7, H1E8, H1F1, H1F11, H1F12, H1F15, H1F18, H1F24, H1F5, H1G10, H1G17, H1G5, H1G9, H1F30, H1F31, H1F29, H1F28	43.9	41

- 3.1.1.5 Only two hedgerow units within the survey area (1.9% of total surveyed) were assessed as meeting all favourable condition criteria listed in Table 2.2 and therefore were considered to be in favourable condition (hedgerows H1A2 and H1B9), the location of which are shown in Appendix A, Figure 2.1 to 2.36. This represents 1.7% of the combined length of all hedgerows surveyed.
- 3.1.1.6 The most frequent reason for unfavourable condition was the combined cover of nutrient enrichment indicators (nettles, cleavers and docks); followed by the width of the undisturbed ground along the hedgerow (Table 3.2). This reflects the number of hedgerows located along arable fields; arable crop was recorded on at least one side of 254 survey units (84.4%). Criteria related to the presence of non-native species, to size and to integrity and continuity were met in a large majority of hedgerows. Table 3.2 shows the number of hedgerows which were favourable and unfavourable for each individual criteria.

Table 3.2: Number of hedgerow units passing/failing individual favourable condition criteria.

Condition criteria	Favourable	Unfavourable	Percentage of hedgerow units considered unfavourable (%)
Borders undisturbed ground at least 2 m wide	54	53	49.5
Herbaceous vegetation at least 1 m wide	90	17	15.9
Less than 20% combined cover of nettles, cleavers and docks	15	92	86.0
Max 10% cover of non-native herbaceous species	107	0	0.0
Max 10% non-native woody species	102	5	4.7
At least 1 m high	107	0	0.0
At least 1.5 m wide	106	1	0.9
Cross-sectional area at least 3 m ²	90	17	15.9
Less than 10% gaps	92	15	14.0
No gaps >5 m wide	94	13	12.1

3.2 Detailed results

3.2.1.1 Detailed results are given in Appendix B to Appendix F.

- Appendix B lists woody species that have been recorded during the hedgerow survey together with their Latin names and native/non-native status.
- Appendix C gives selected results of the hedgerow survey per hedgerow unit.
- Appendix D gives the species composition (woody species only) of each hedgerow survey unit, together with the number of native / archaeophyte woody species that were recorded.
- Appendix E lists hedgerow survey units in which neophyte species were recorded, together with the name and cover of these species.
- Finally, Appendix F gives selected results of the hedgerow survey per hedgerow survey unit. The definition of the variables that are listed in Appendix F is given in Table 2.1.

4. Conclusion

- 4.1.1.1 Forty-seven hedgerow units within the survey area were found to be species-rich and 60 were found to be species-poor under the Hedgerow Survey Handbook Methodology. Of these, 31 species-poor hedgerows and 16 species-rich hedgerows transect the Hornsea Three onshore cable corridor as shown in Appendix A, Figure 2.1 to 2.36.
- 4.1.1.2 Only two hedgerow units were assessed as being in favourable condition (hedgerows H1A2 and H1B9). The most frequent reason for unfavourable condition was the combined cover of nutrient enrichment indicators (nettles, cleavers and docks); followed by the width of the undisturbed ground along the hedgerow which reflects the number of hedgerows located along arable field boundaries.
- 4.1.1.3 Results of the hedgerow survey have been used to inform the final location and design of the onshore components of Hornsea Three (see volume 1, chapter 4: Site Selection and Alternatives) and to enable the assessment of the impacts on ecology and nature conservation, reported in volume 3, chapter 3: Ecology and Nature Conservation.

5. References

Defra (2007) Hedgerow Survey Handbook. A standard procedure for local surveys in the UK. Defra, London.

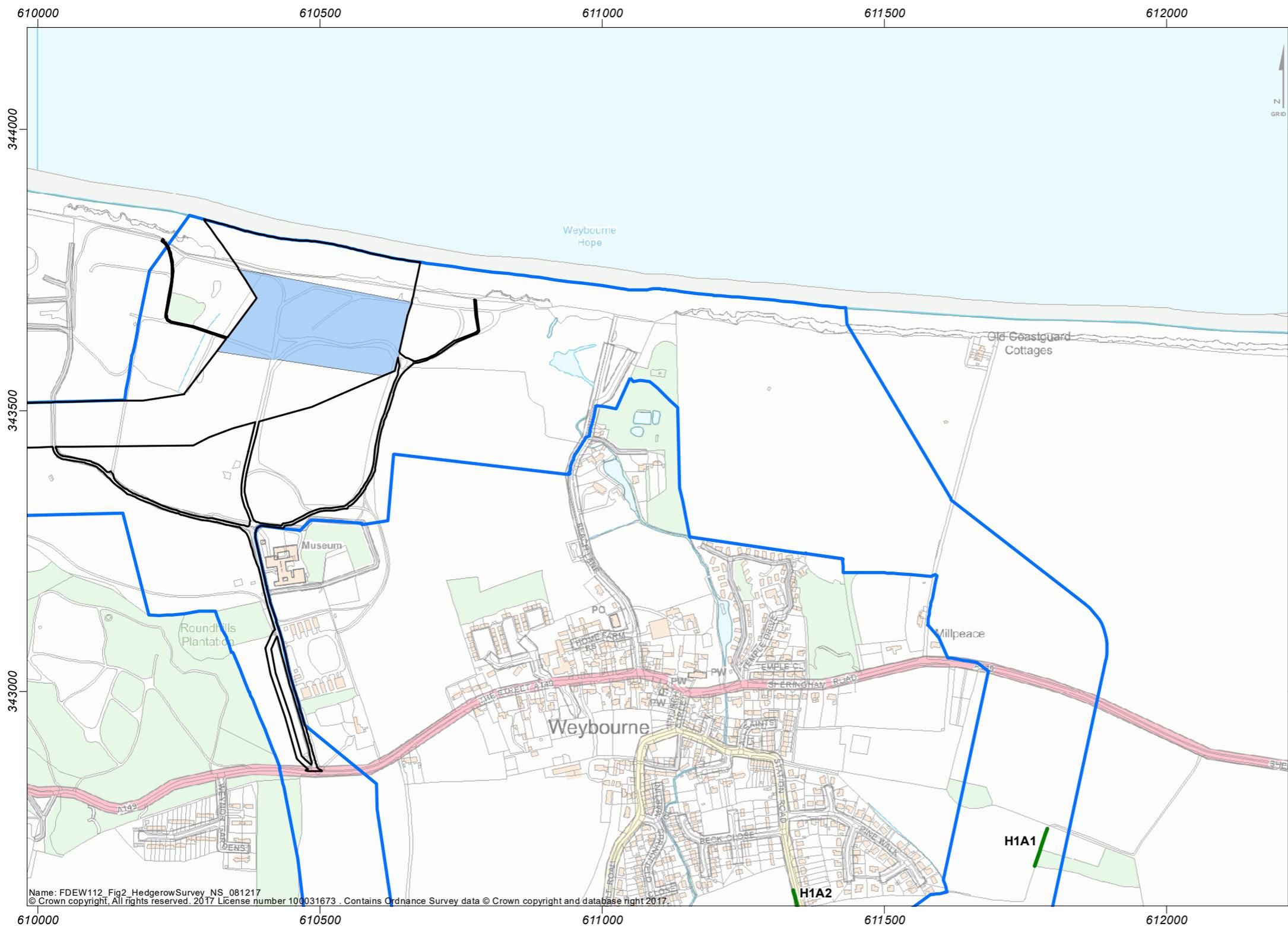
JNCC (2010) Handbook for Phase 1 habitat survey: A technique for environmental audit. Joint Nature Conservancy Committee, Peterborough, England.

RPS (2016) Hornsea Three Preliminary Ecological Appraisal.

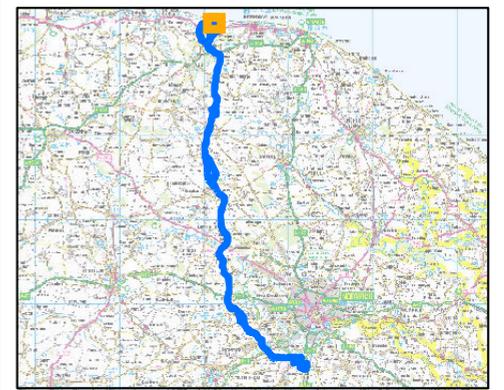
Appendix A Figures

A.1 Hedgerow survey area

A.2 Hedgerow survey results



- Species Pool
- Hedgerow Survey Area
- Landfall Construction
- Hornsea Three onshore cable corridor



Reference System : OSGB36
 Projection : BNG
 Scale@A3:1:7,964
 Vertical reference: Newlyn



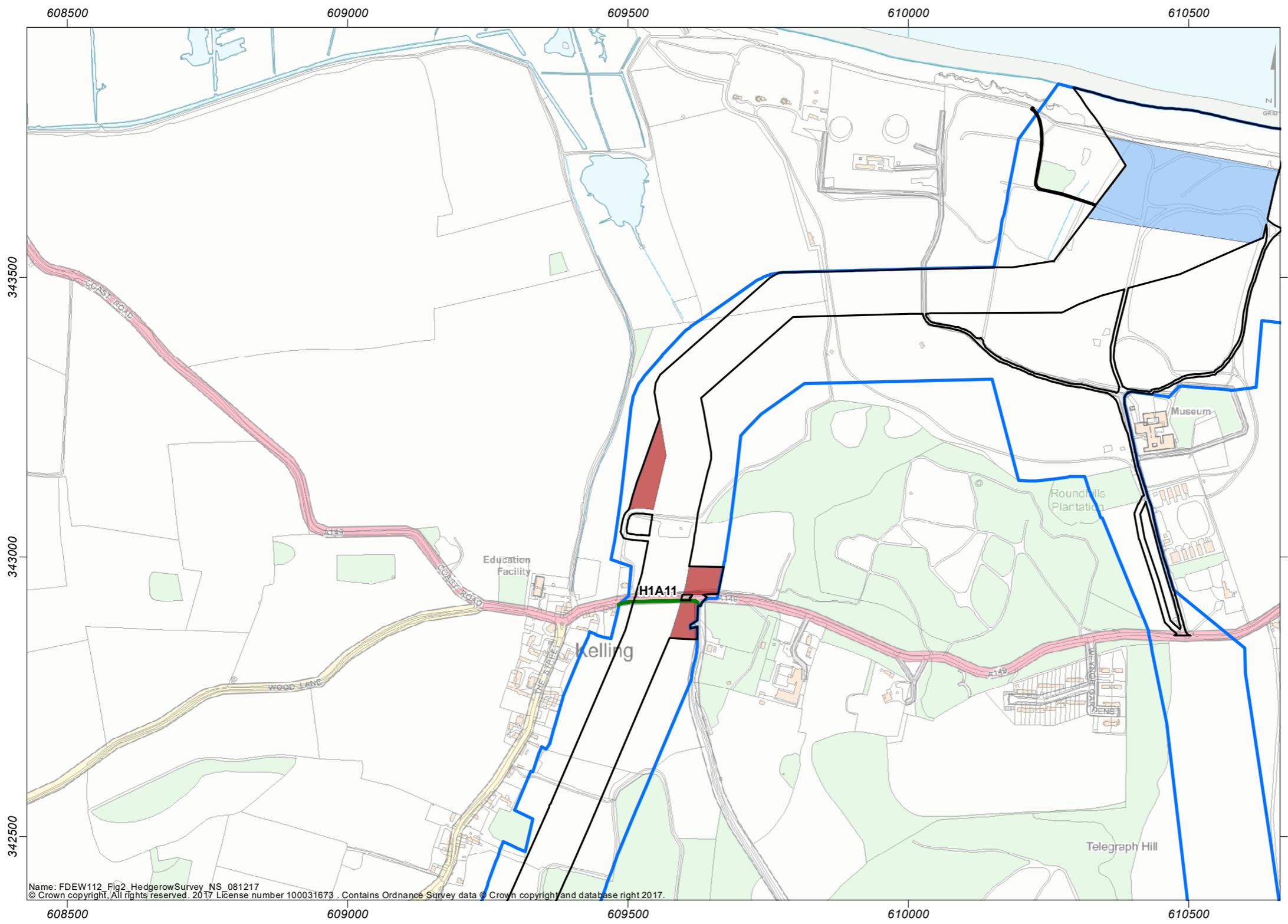
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01	Initial Issue	22/08/2017

Hornsea Project Three
 Figure: 2.1
 Hedgerow Survey Results.

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 Checked by: AS
 Approved by: NS



Name: FDEW112_Fig2_HedgerowSurvey_NS_081217
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- Species Poor
- Hedgerow Survey Area
- Landfall Construction
- Storage Area
- Hornsea Three onshore cable corridor



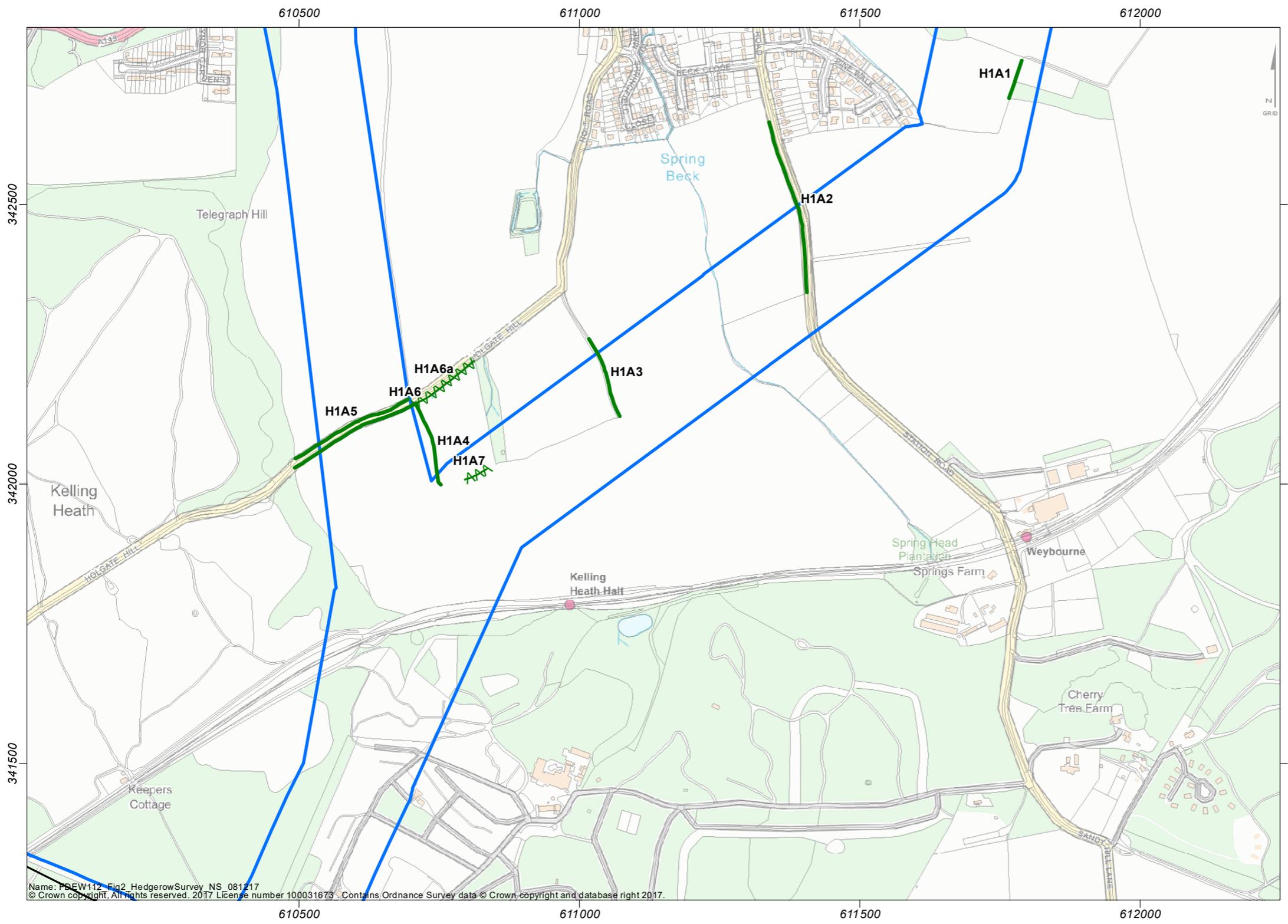
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 Projection : BNG
 Scale@A3:1:7,964
 Vertical reference: Newlyn

0 220 Metres

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01	Initial Issue	22/08/2017

Hornsea Project Three
 Figure: 2.2
 Hedgerow Survey Results.

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- Species Rich
- Species Poor
- Hedgerow Survey Area
- Hornsea Three onshore cable corridor



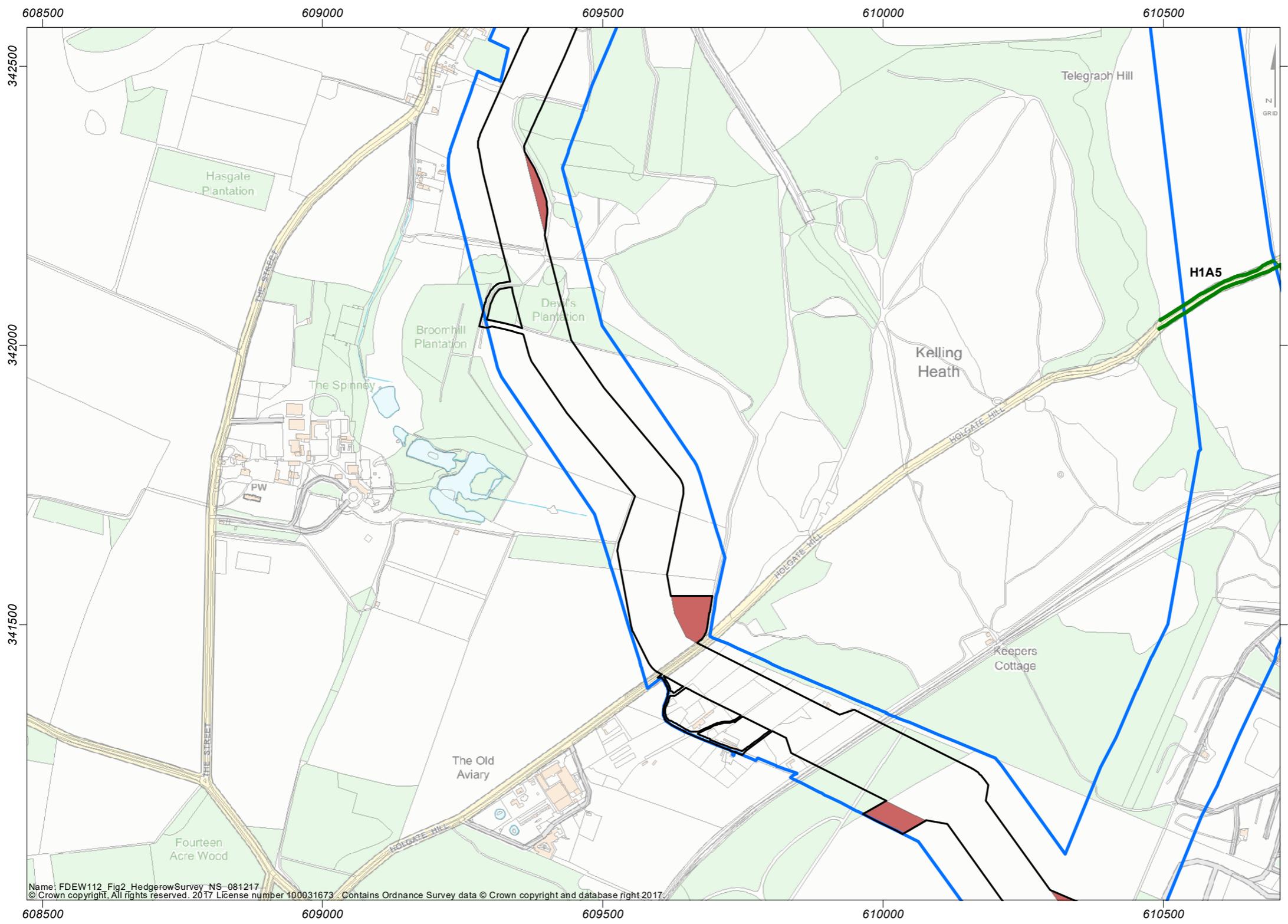
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01	Initial Issue	22/08/2017

Hornsea Project Three
 Figure: 2.3
 Hedgerow Survey Results.

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- Species Poor
- Hedgerow Survey Area
- Storage Area
- Hornsea Three onshore cable corridor



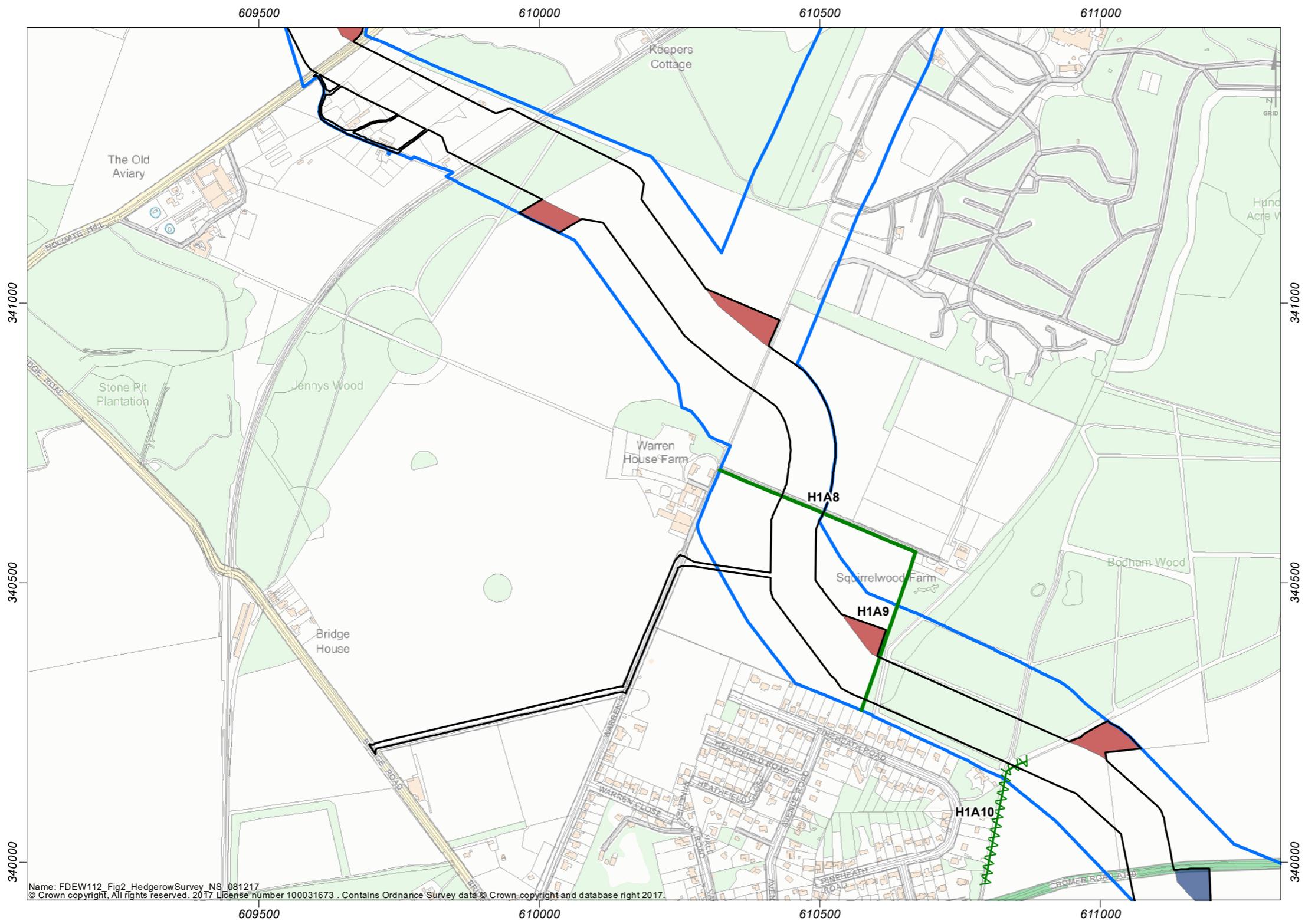
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 Vertical reference: Newlyn

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 Hedgerow Survey Results.

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- Species Rich
- Species Poor
- Hedgerow Survey Area
- Storage Area
- Compound
- Hornsea Three onshore cable corridor



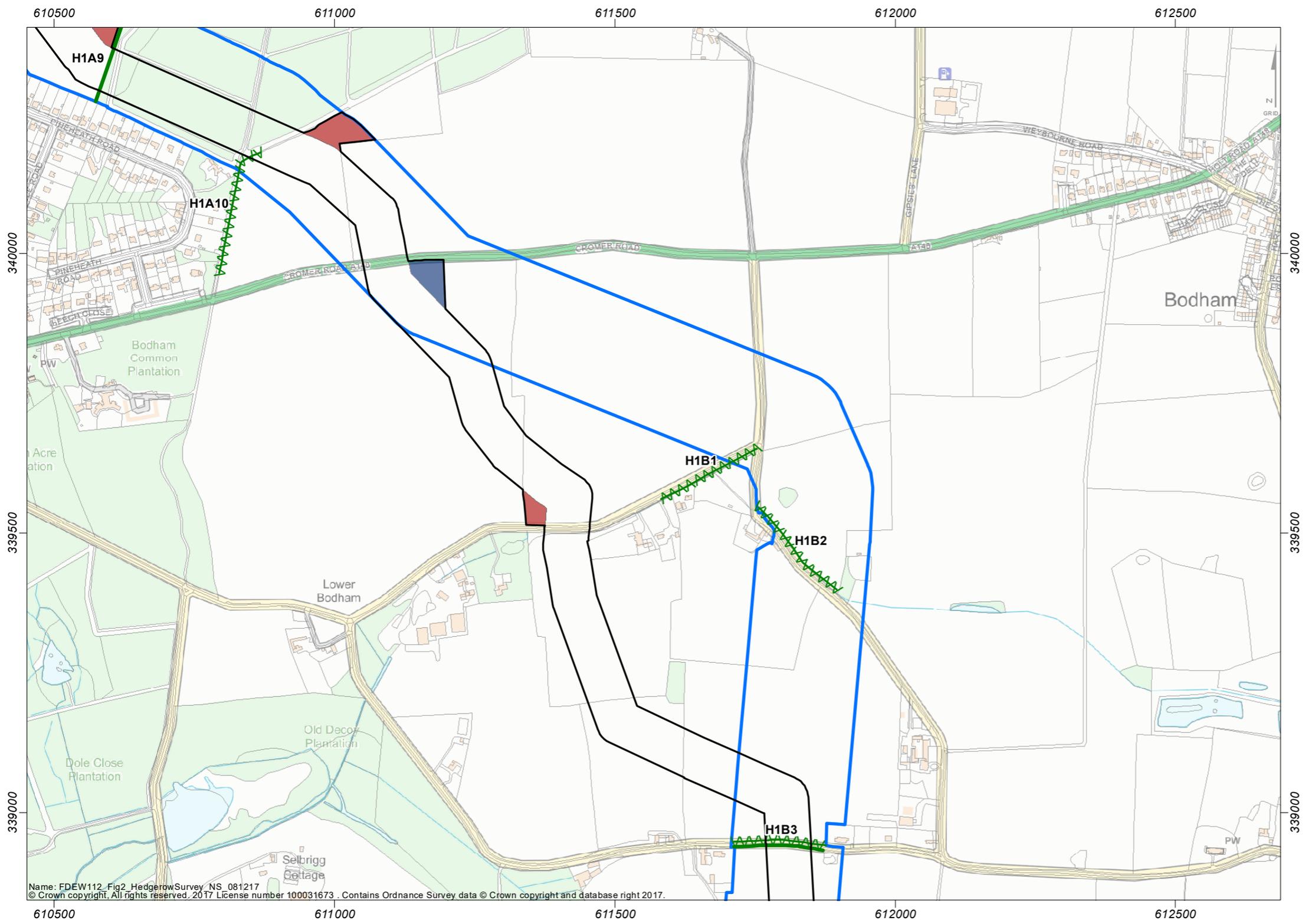
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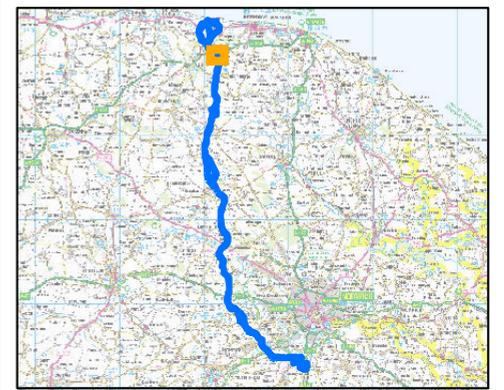
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Hornsea Project Three
 Figure: 2.5
 Hedgerow Survey Results.

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-  Species Rich Hedgerow
-  Species Poor Hedgerow
-  Hedgerow Survey Area
-  Storage Area
-  Compound
-  Hornsea Three onshore cable corridor



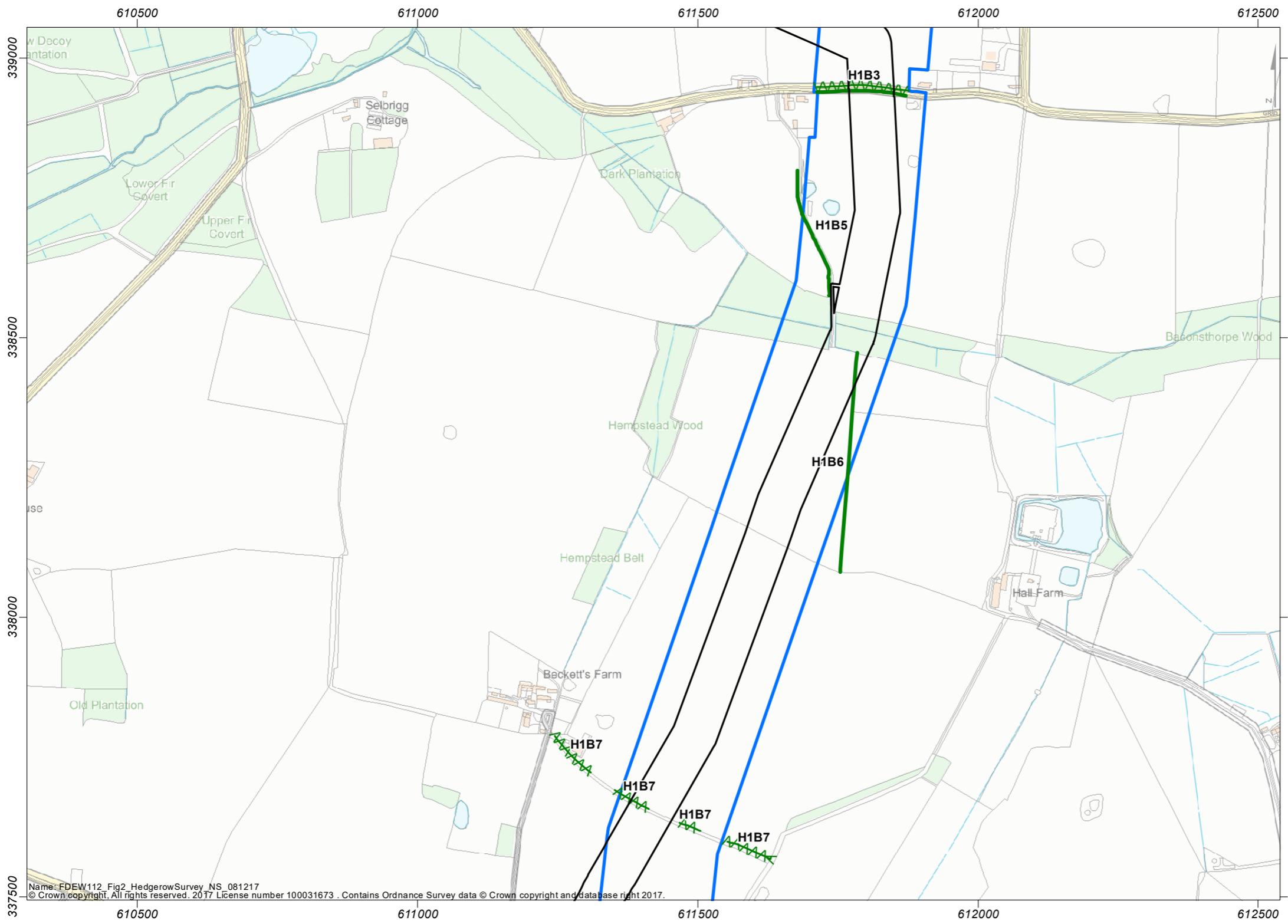
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Hornsea Project Three
 Figure: 2.6
 Hedgerow Survey Results.

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-  Species Rich Hedgerow
-  Species Poor Hedgerow
-  Hedgerow Survey Area
-  Hornsea Three onshore cable corridor



Reference System : OSGB36 Scale@A3:1:7,964
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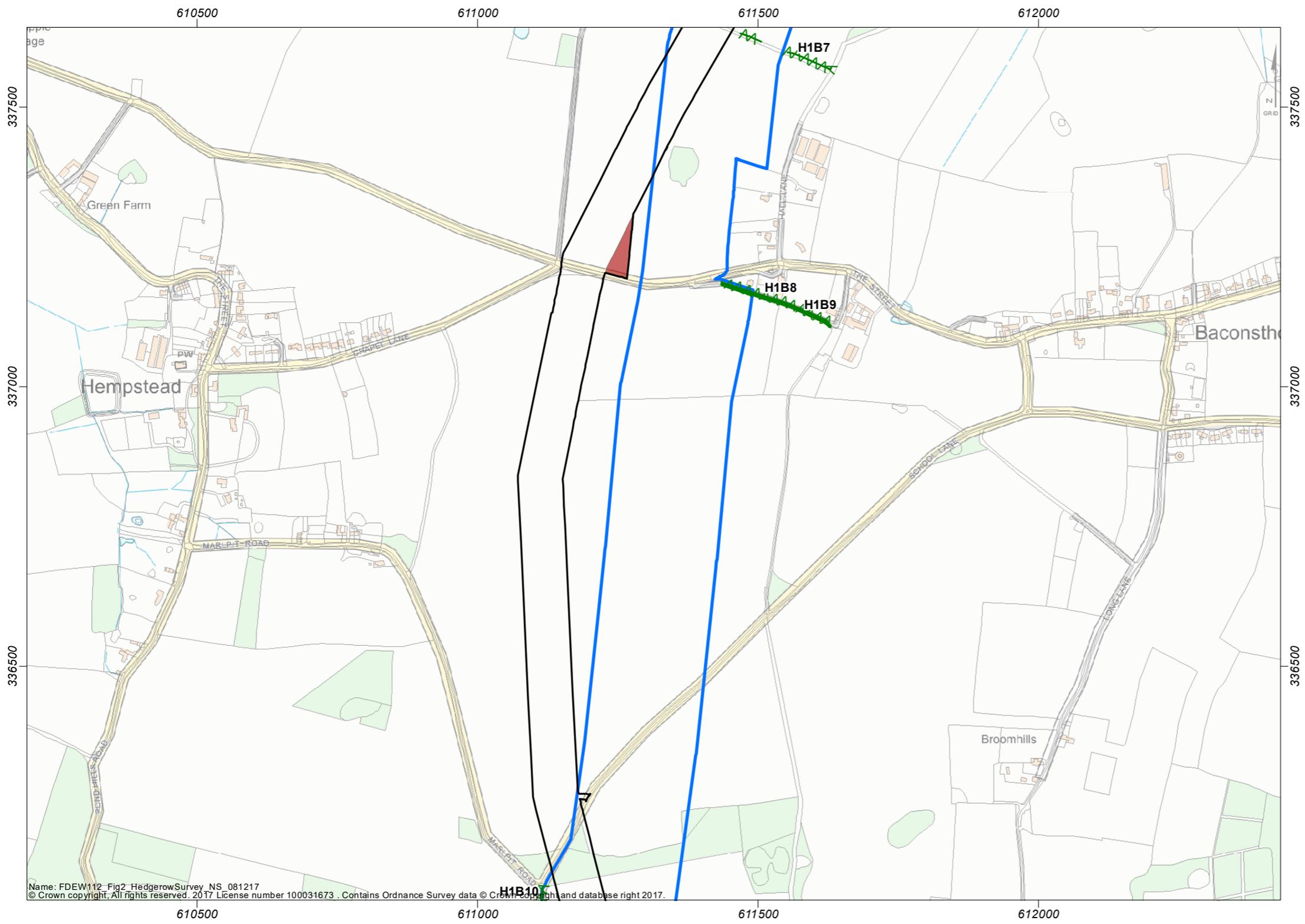


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Hornsea Project Three
 Figure: 2.7
 Hedgerow Survey Results.

Doc no: FDEW112/24367/1
 Created by: DJ
 Checked by: AS
 Approved by: NS





- Species Rich
- Species Poor
- Hedgerow Survey Area
- Storage Area
- Hornsea Three onshore cable corridor



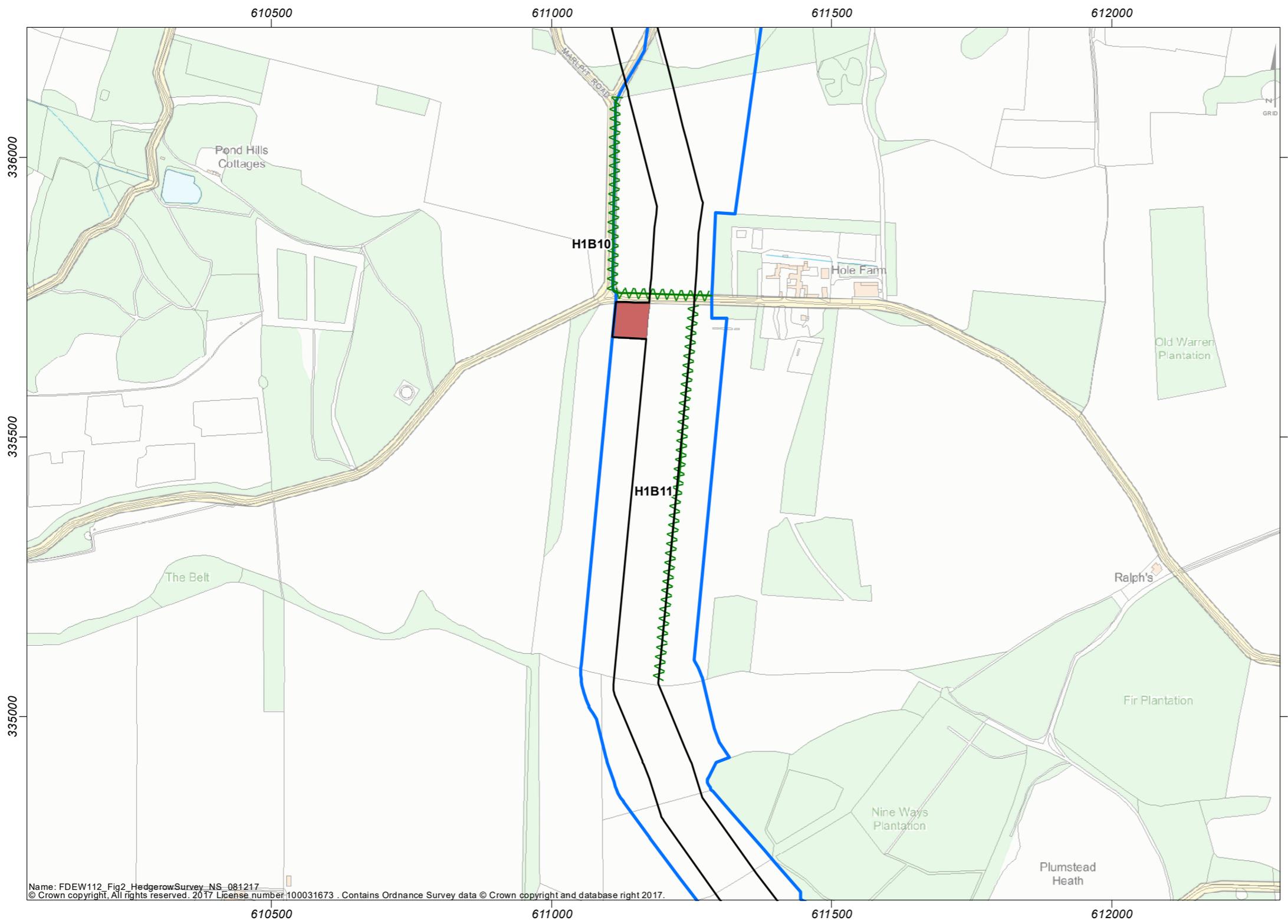
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 Vertical reference: Newlyn

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Hornsea Project Three
 Figure: 2.8
 Hedgerow Survey Results.

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- Species Rich
- Hedgerow Survey Area
- Storage Area
- Hornsea Three onshore cable corridor



Reference System : OSGB36 Scale@A3:1:7,964
 Projection : BNG Vertical reference: Newlyn



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Hornsea Project Three
 Figure: 2.9
 Hedgerow Survey Results.

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- Hedgerow Survey Area
- Storage Area
- Hornsea Three onshore cable corridor



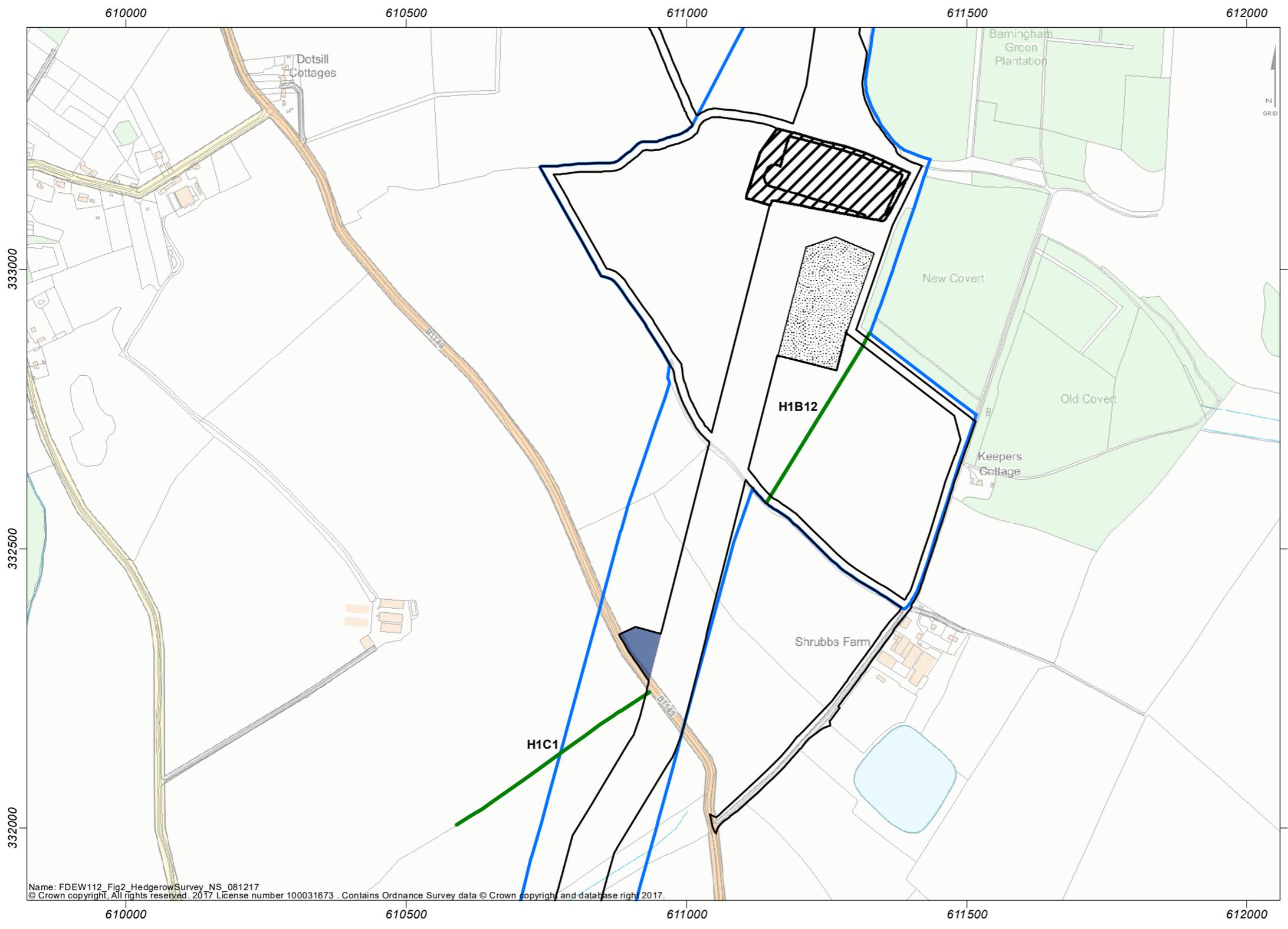
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Hornsea Project Three
 Figure: 2.10
 Hedgerow Survey Results.

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- Species Pool
- Hedgerow Survey Area
- Compound
- Onshore HVAC booster station - Permanent
- Onshore HVAC booster station - Temporary
- Hornsea Three onshore cable corridor



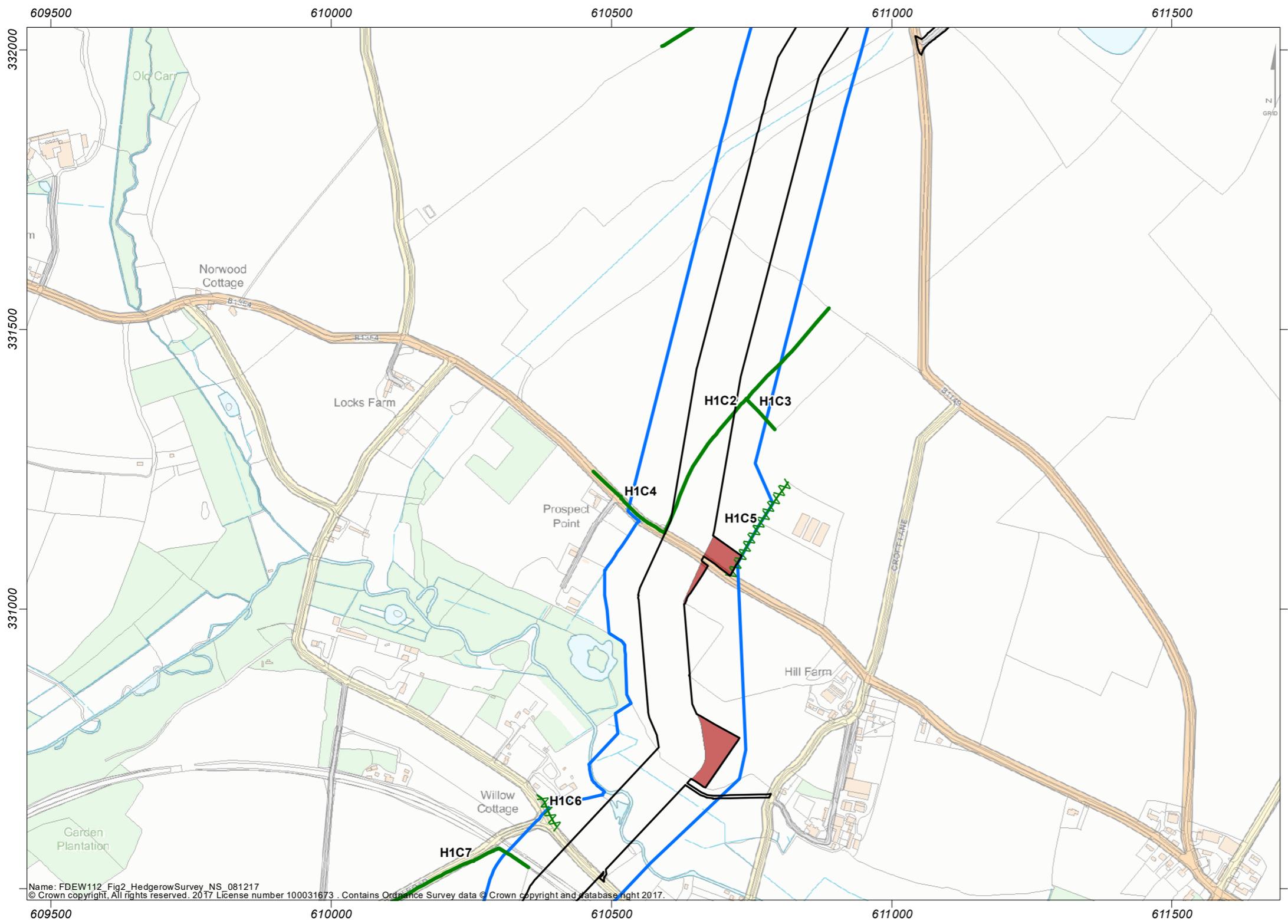
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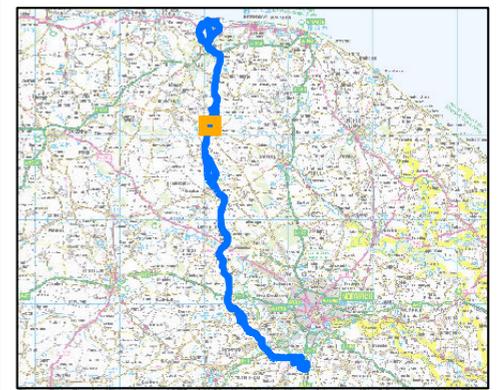
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Hornsea Project Three
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 Hedgerow Survey Results.

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- Species Rich Hedgerow
- Species Poor Hedgerow
- Hedgerow Survey Area
- Storage Area
- Hornsea Three onshore cable corridor



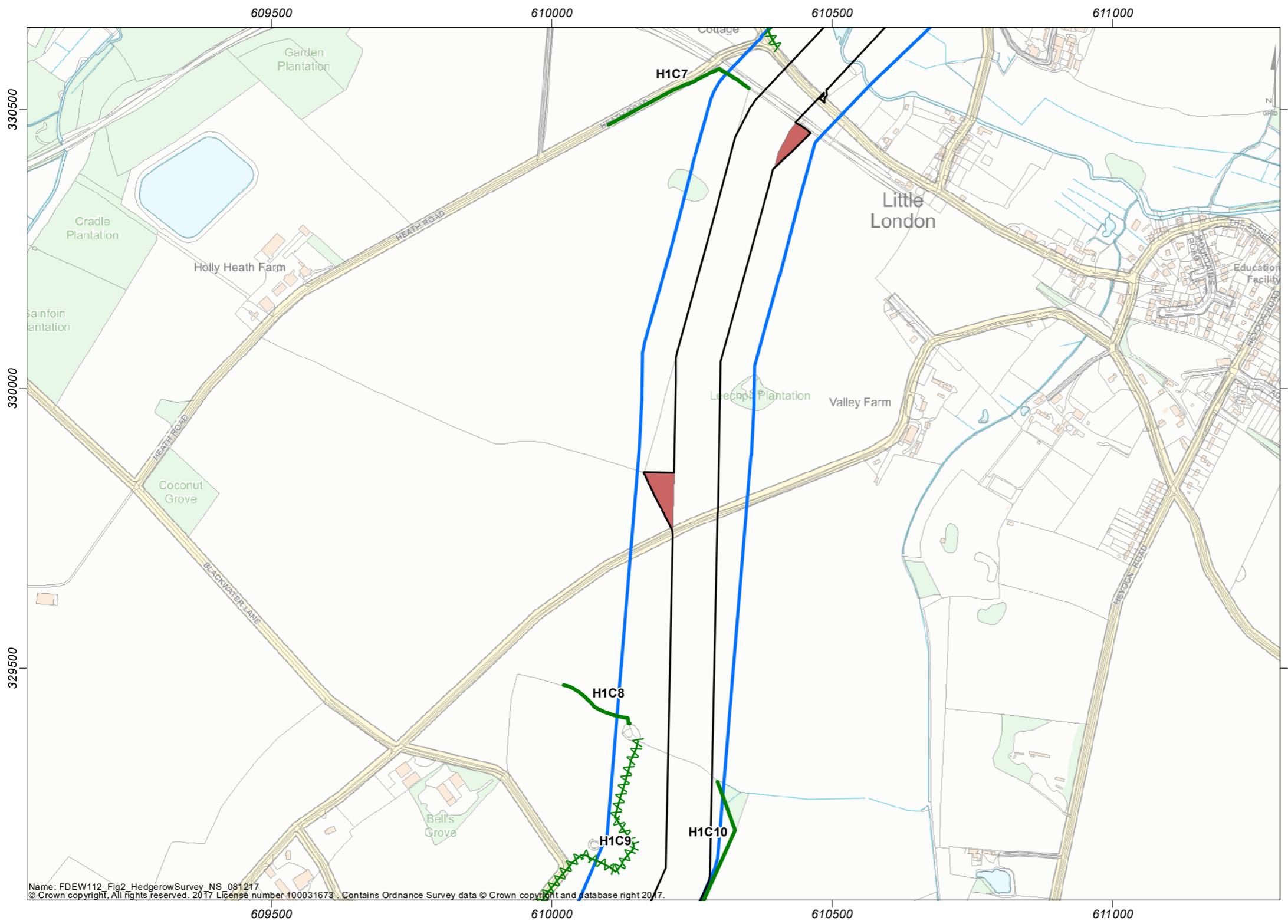
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Hornsea Project Three
 Figure: 2.12
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- Species Rich
- Species Poor
- Hedgerow Survey Area
- Storage Area
- Hornsea Three onshore cable corridor



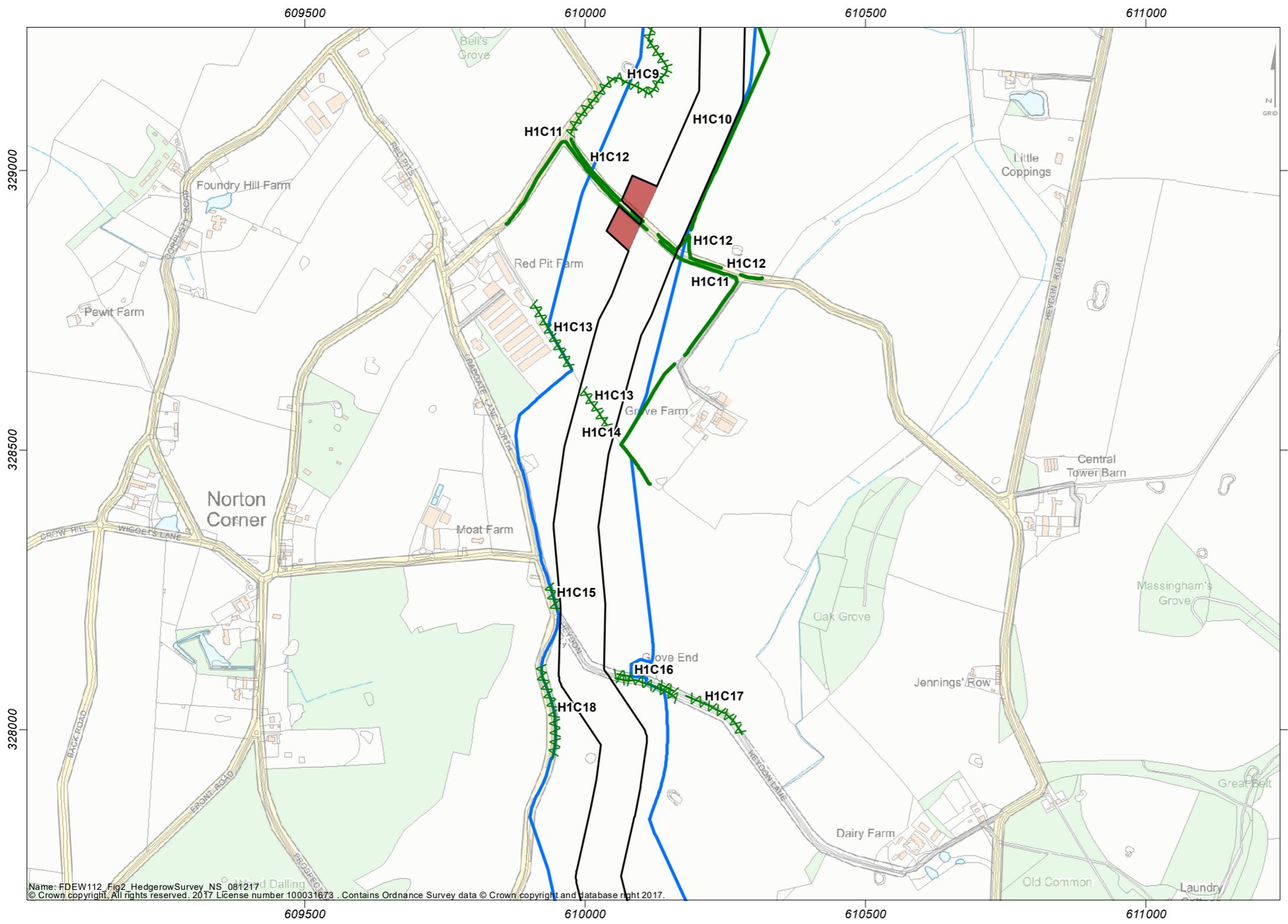
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Hornsea Project Three
 Figure: 2.13
 Hedgerow Survey Results.

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- Species Rich
- Species Poor
- Hedgerow Survey Area
- Storage Area
- Hornsea Three onshore cable corridor



Reference System : OSGB36
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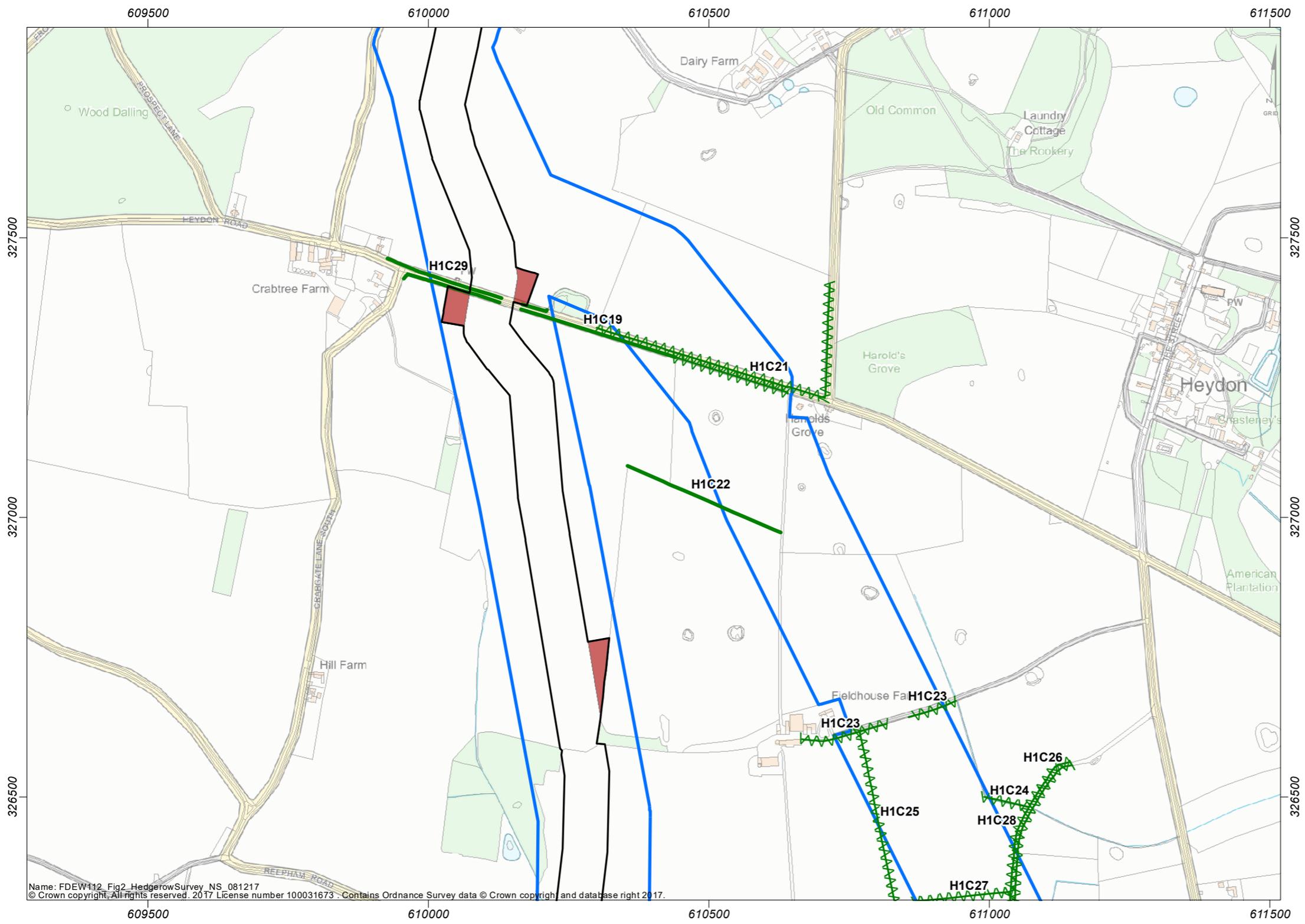
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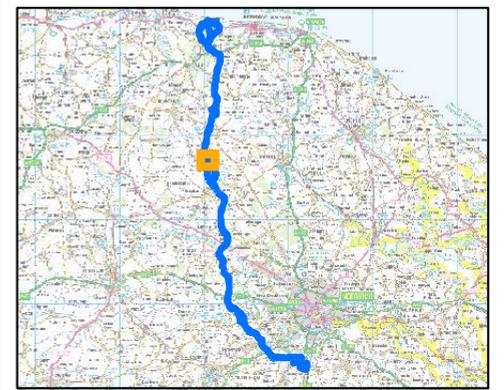
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- Species Rich
- Species Poor
- Hedgerow Survey Area
- Storage Area
- Hornsea Three onshore cable corridor



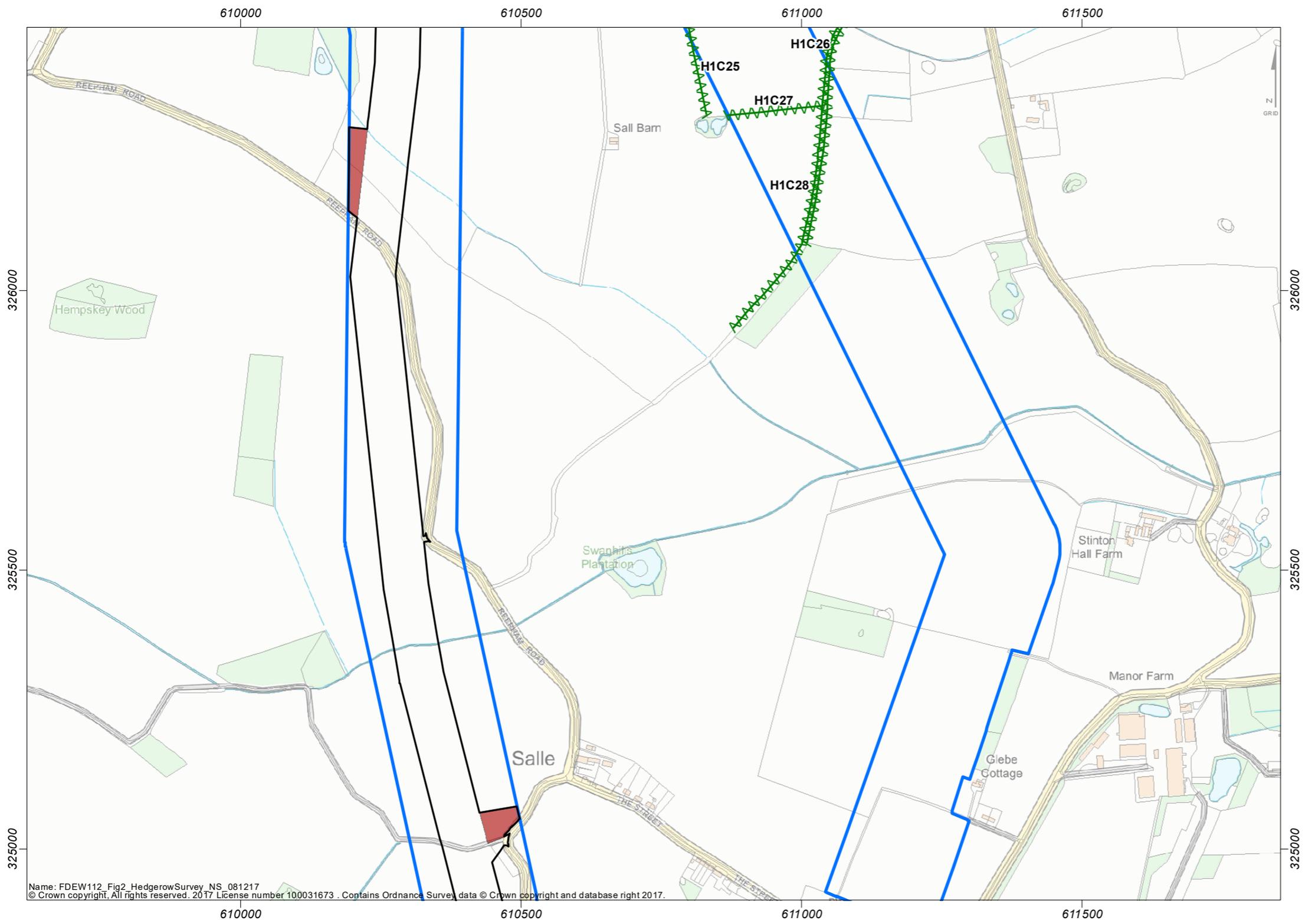
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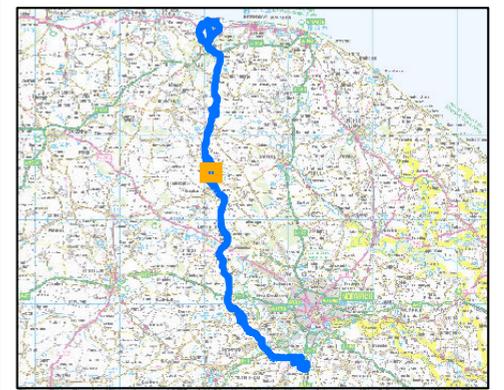
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Hornsea Project Three
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- ⚡ Species Rich
- Hedgerow Survey Area
- Storage Area
- Hornsea Three onshore cable corridor



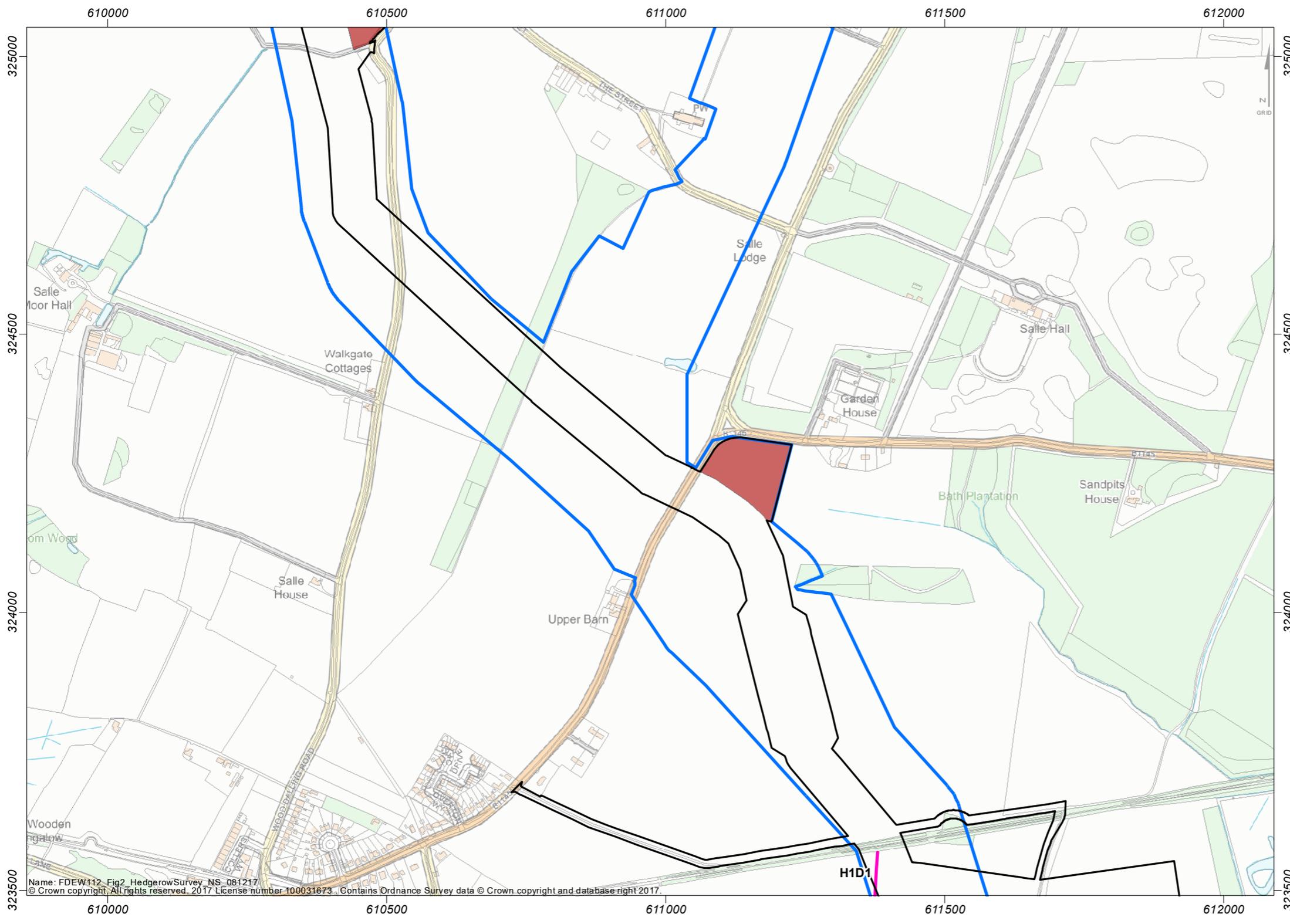
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Hornsea Project Three
 Figure: 2.16
 Hedgerow Survey Results.

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- Hedgerow Not
- Hedgerow Survey Area
- Storage Area
- Hornsea Three onshore cable corridor



Reference System : OSGB36 Scale@A3:1:7,964
 Projection : BNG Vertical reference: Newlyn

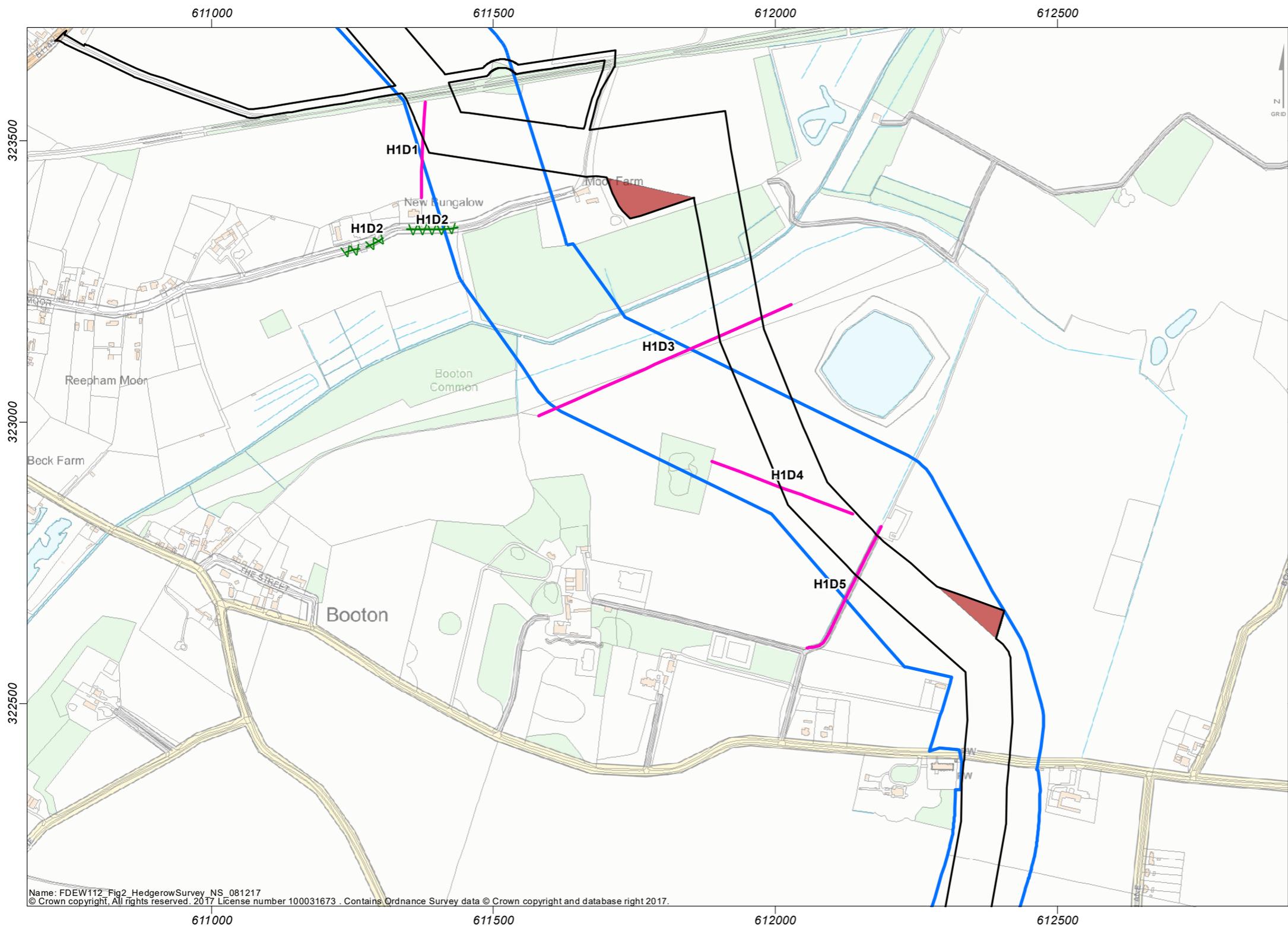


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Hornsea Project Three
 Figure: 2.17
 Hedgerow Survey Results.

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- Species Rich
- Hedgerow Not
- Hedgerow Survey Area
- Storage Area
- Hornsea Three onshore cable corridor



Reference System : OSGB36
 Projection : BNG
 Scale@A3:1:7,964
 Vertical reference: Newlyn

0 220 Metres

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Hornsea Project Three
 Figure: 2.18
 Hedgerow Survey Results.

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- - No Hedgerow Present
- Hedgerow Survey Area
- Compound
- Hornsea Three onshore cable corridor



Reference System : OSGB36 Scale@A3:1:7,964
 Projection : BNG Vertical reference: Newlyn



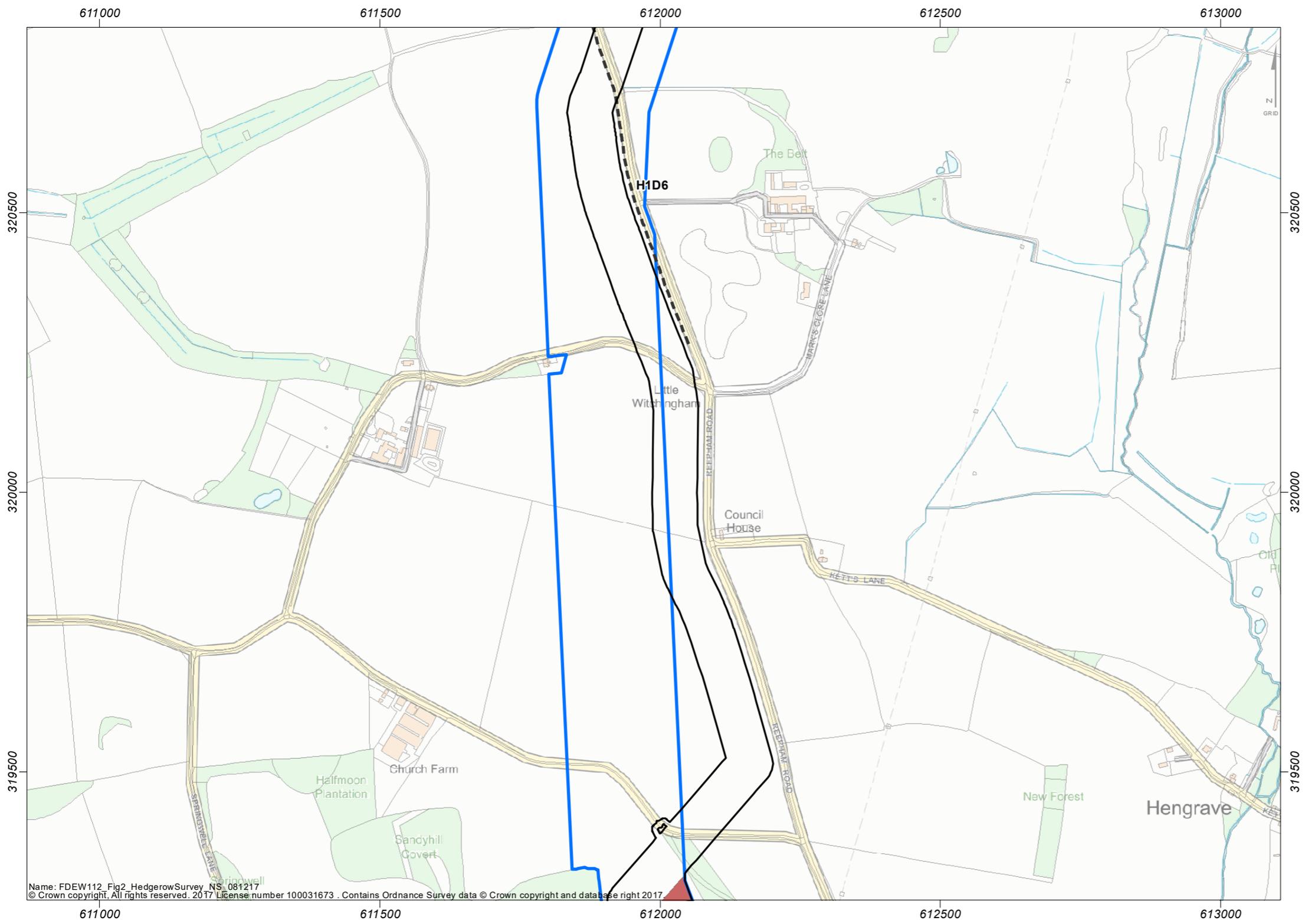
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Hornsea Project Three
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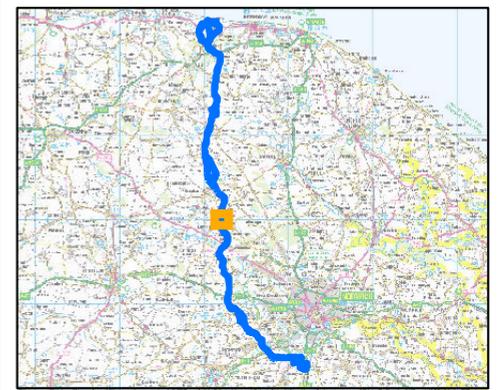
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- No Hedgerow Present
- Hedgerow Survey Area
- Storage Area
- Hornsea Three onshore cable corridor



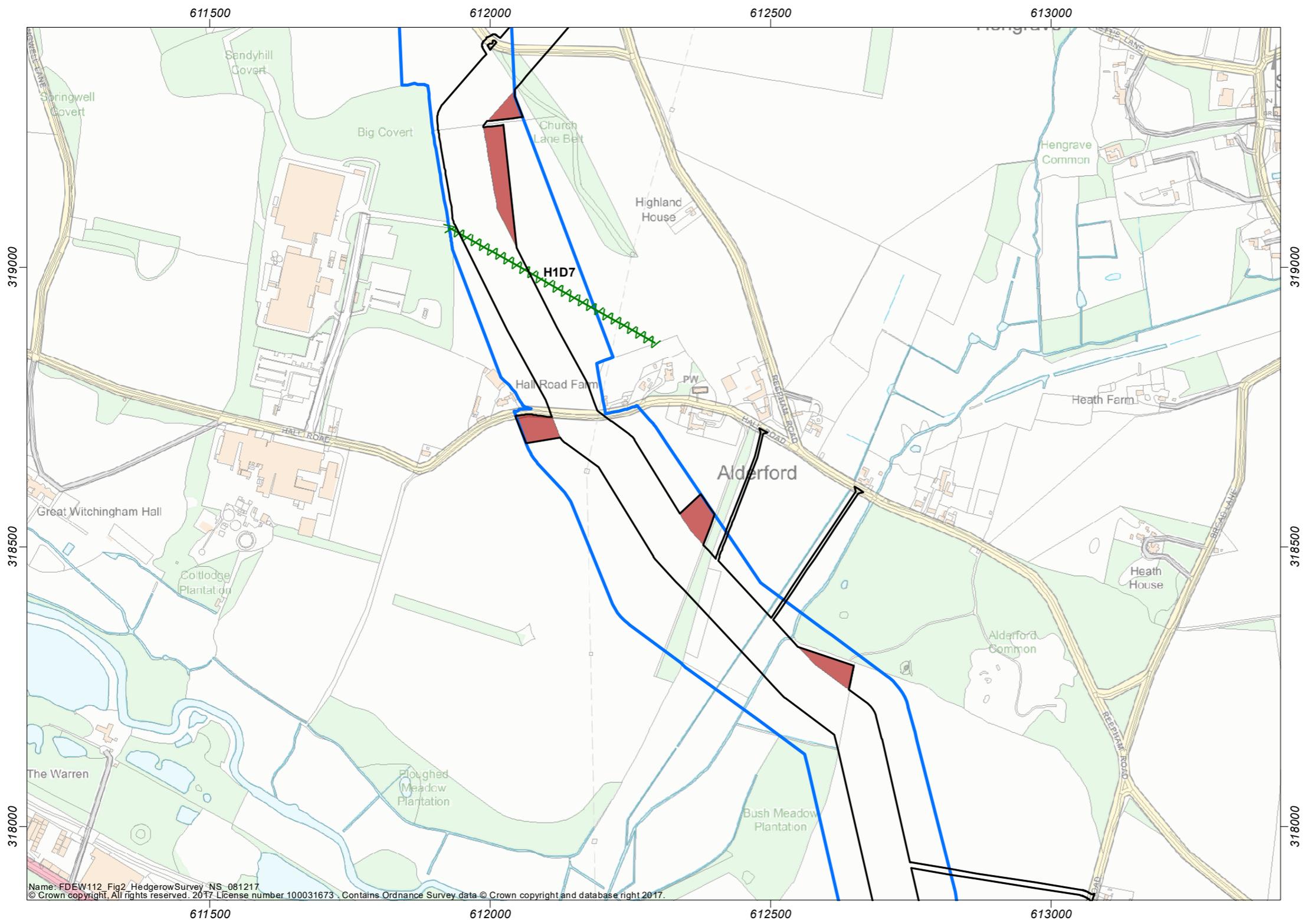
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Hornsea Project Three
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- - - Species Rich
- Hedgerow Survey Area
- Storage Area
- Hornsea Three onshore cable corridor



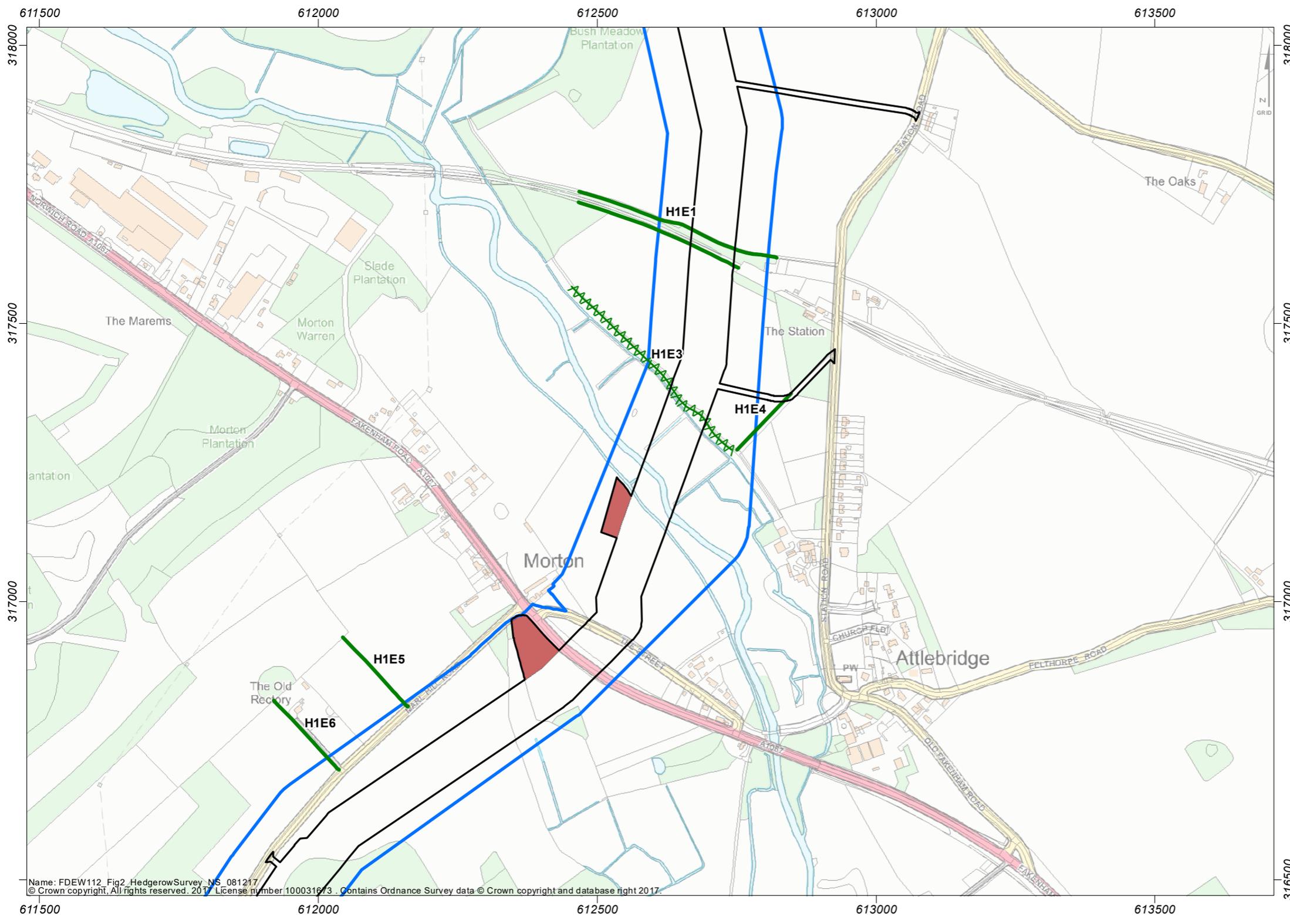
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Hornsea Project Three
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- Species Rich
- Species Poor
- Hedgerow Survey Area
- Storage Area
- Hornsea Three onshore cable corridor



Reference System : OSGB36
 Projection : BNG
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 Vertical reference: Newlyn

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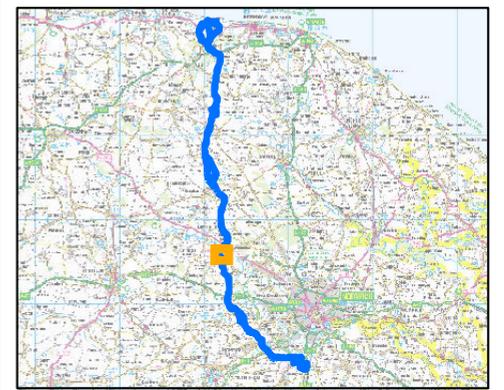
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Hornsea Project Three
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-  Species Rich
-  Hedgerow Survey Area
-  Storage Area
-  Hornsea Three onshore cable corridor



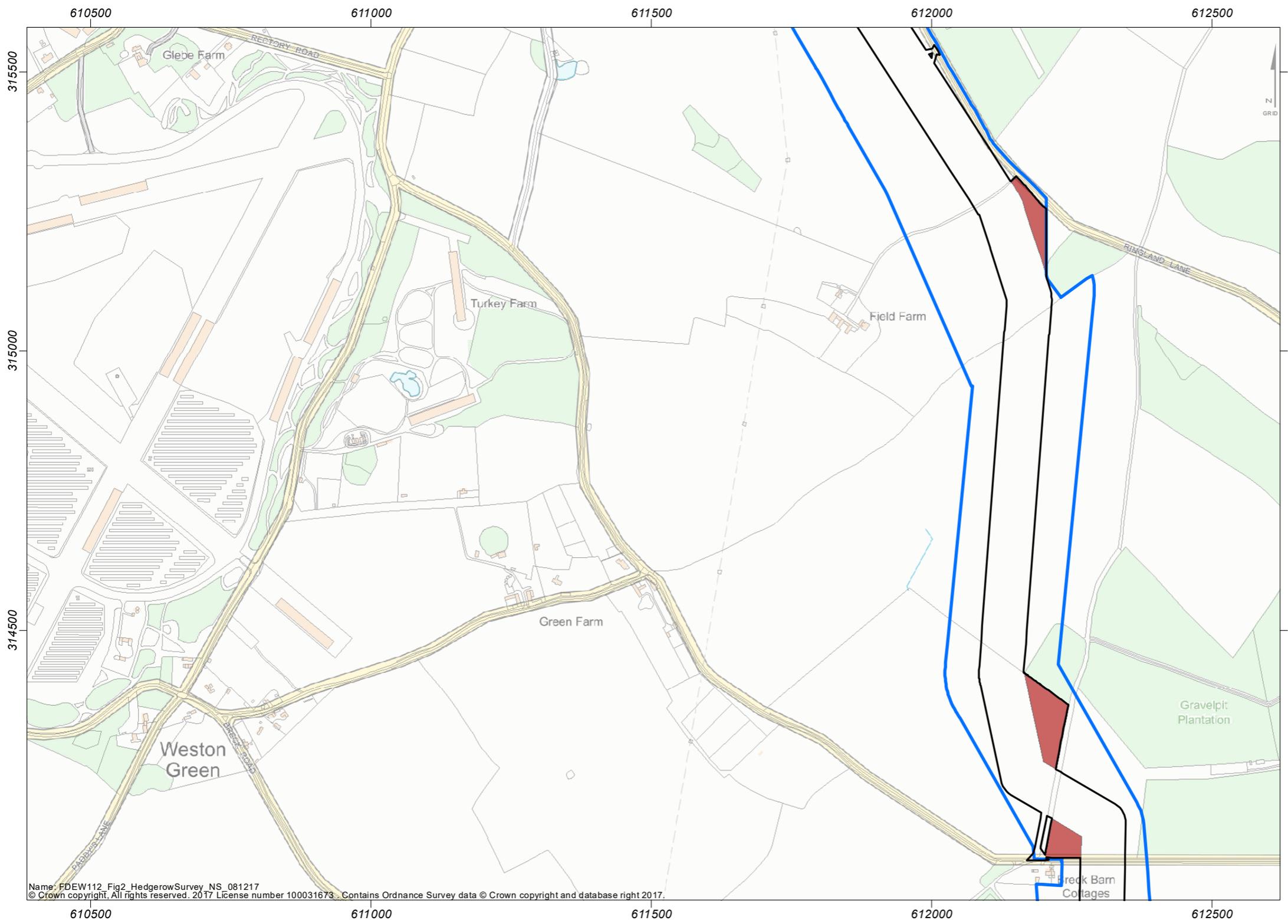
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0 220 Metres

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Hornsea Project Three
 Figure: 2.23
 Hedgerow Survey Results.

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- Hedgerow Survey Area
- Storage Area
- Hornsea Three onshore cable corridor



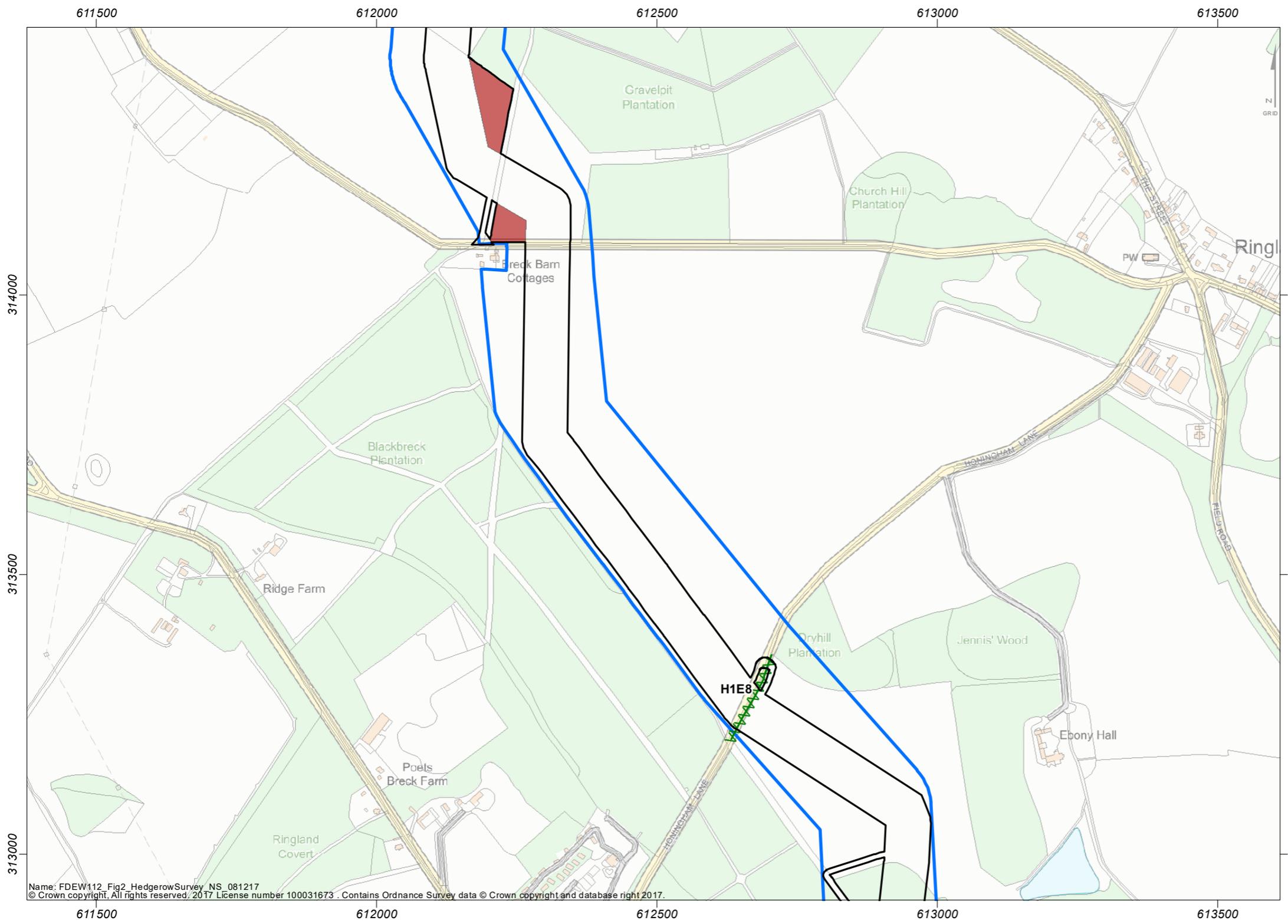
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- Species Rich
- Hedgerow Survey Area
- Storage Area
- Hornsea Three onshore cable corridor



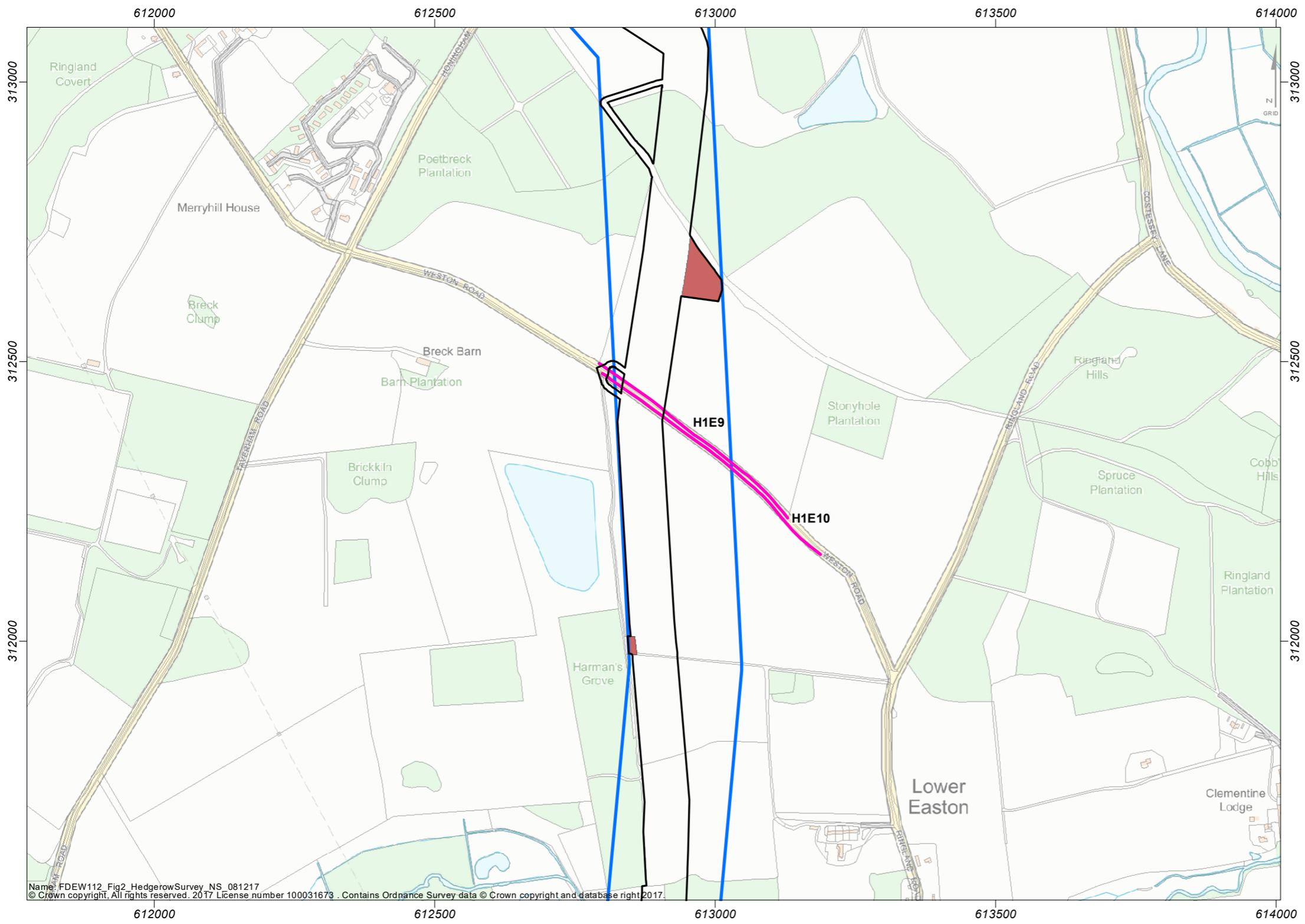
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Hornsea Project Three
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- Hedgerow Not
- Hedgerow Survey Area
- Storage Area
- Hornsea Three onshore cable corridor



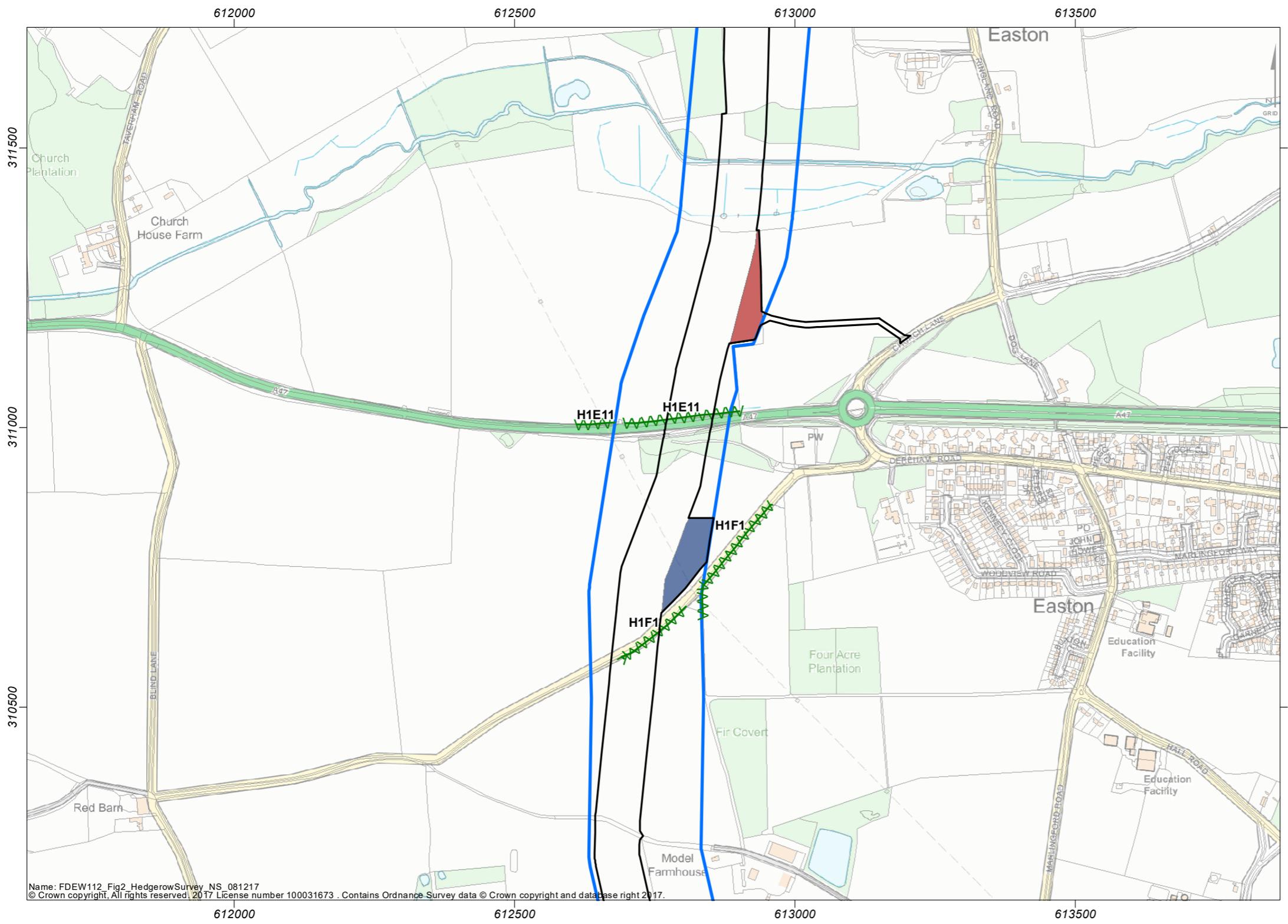
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Hornsea Project Three
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 Hedgerow Survey Results.

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- Species Rich
- Hedgerow Survey Area
- Storage Area
- Compound
- Hornsea Three onshore cable corridor



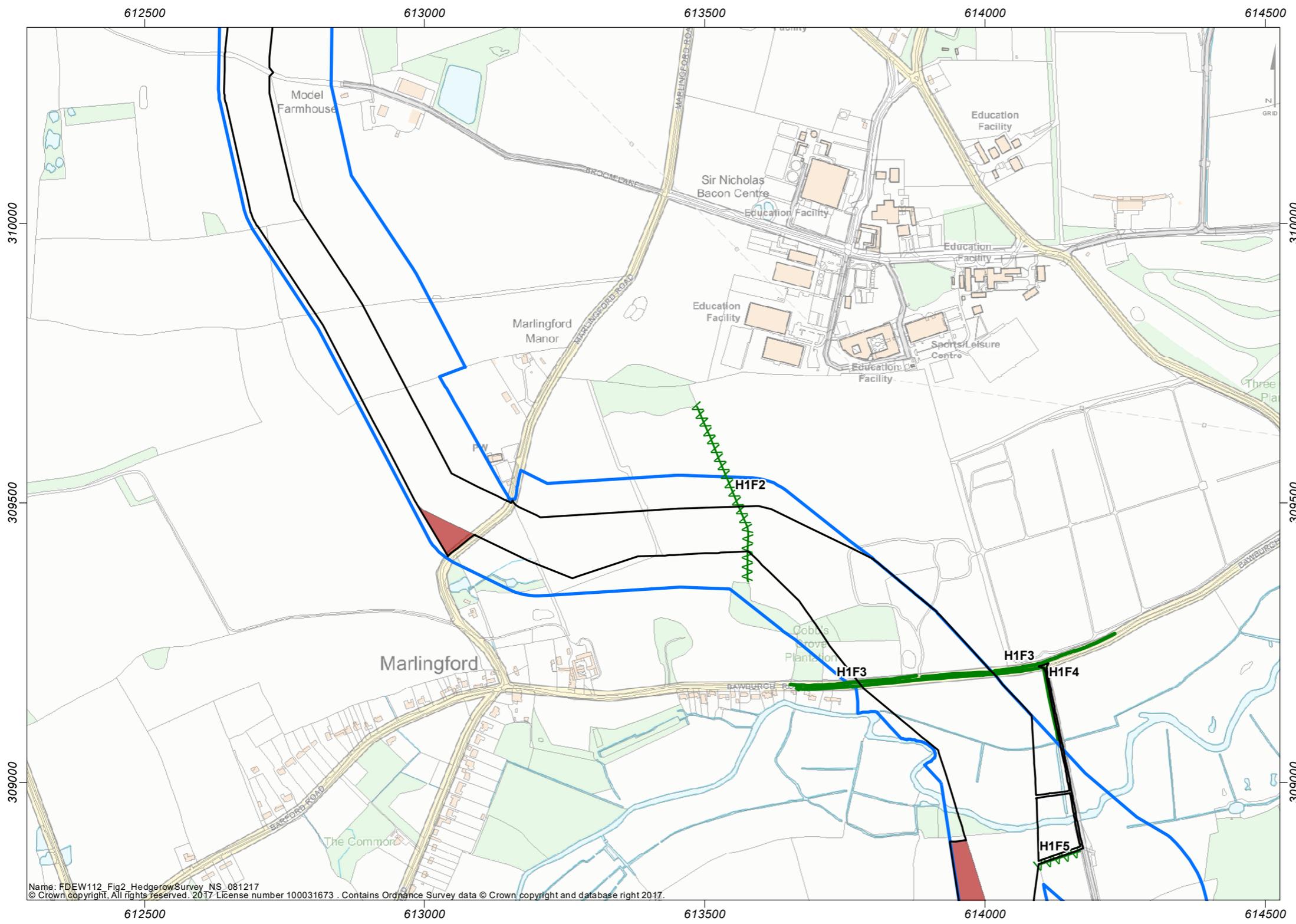
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Hornsea Project Three
 Figure: 2.27
 Hedgerow Survey Results.

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-  Species Rich
-  Species Poor
-  Hedgerow Survey Area
-  Storage Area
-  Hornsea Three onshore cable corridor



Reference System : OSGB36 Scale@A3:1:7,964
 Projection : BNG Vertical reference: Newlyn



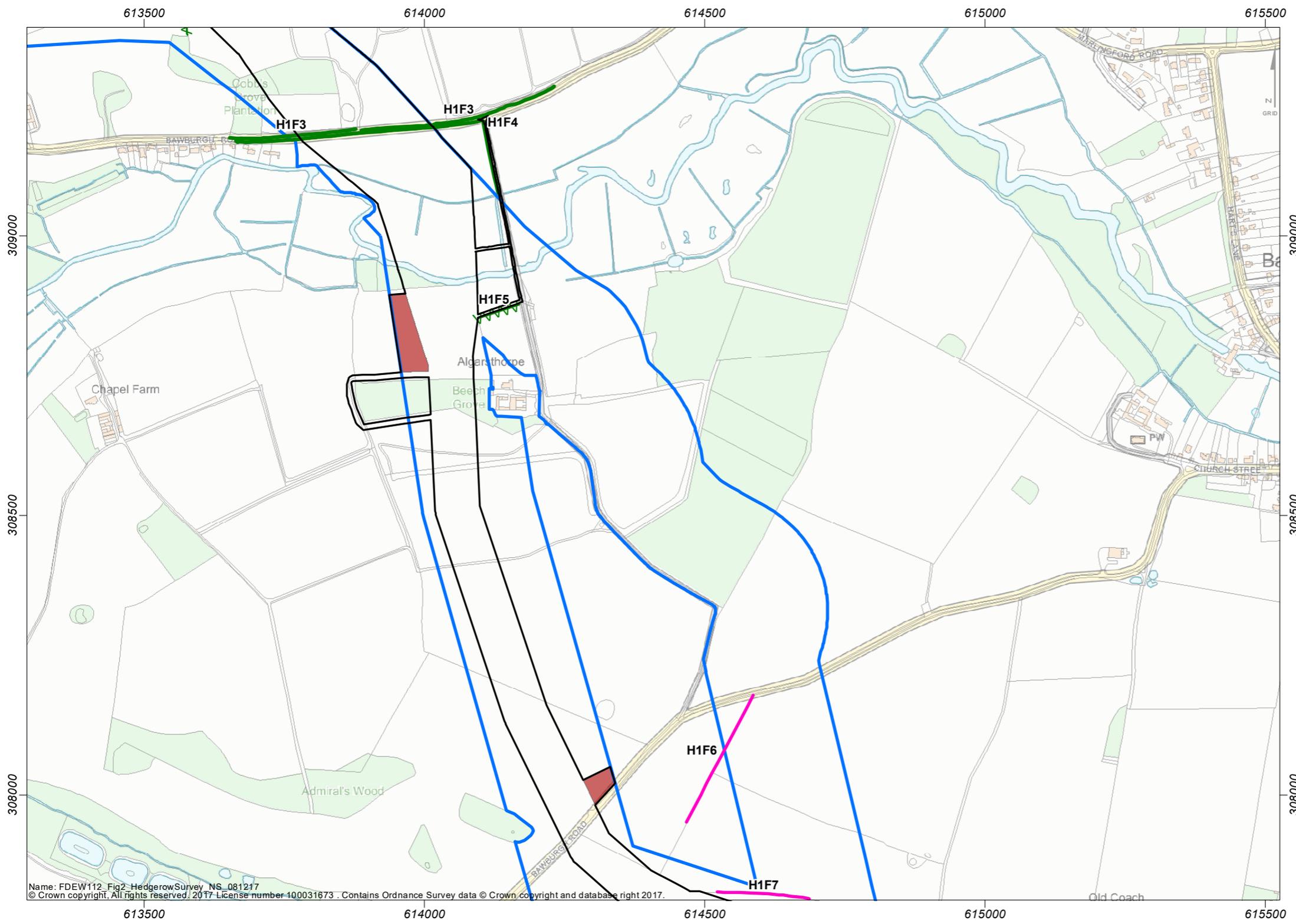
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Hornsea Project Three
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- Species Rich
- Species Poor
- Hedgerow Not
- Hedgerow Survey Area
- Storage Area
- Hornsea Three onshore cable corridor



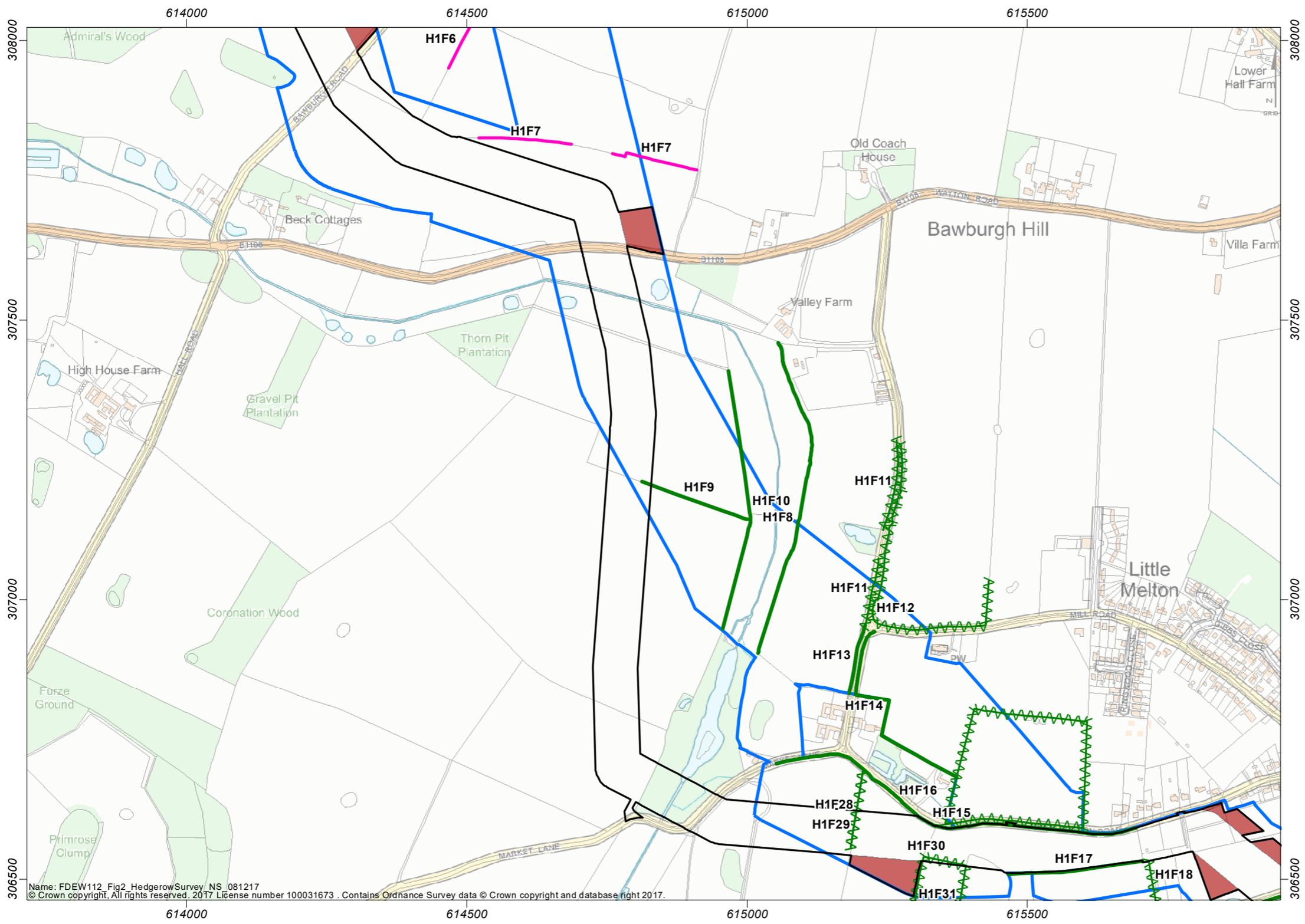
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 Projection : BNG Vertical reference: Newlyn



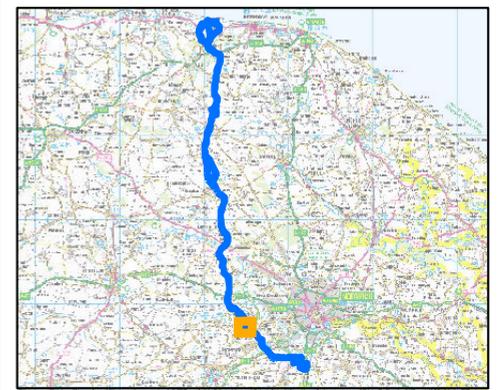
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Hornsea Project Three
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- Species Rich Hedgerow
- Species Poor Hedgerow
- Hedgerow Not Surveyed
- Hedgerow Survey Area
- Storage Area
- Hornsea Three onshore cable corridor



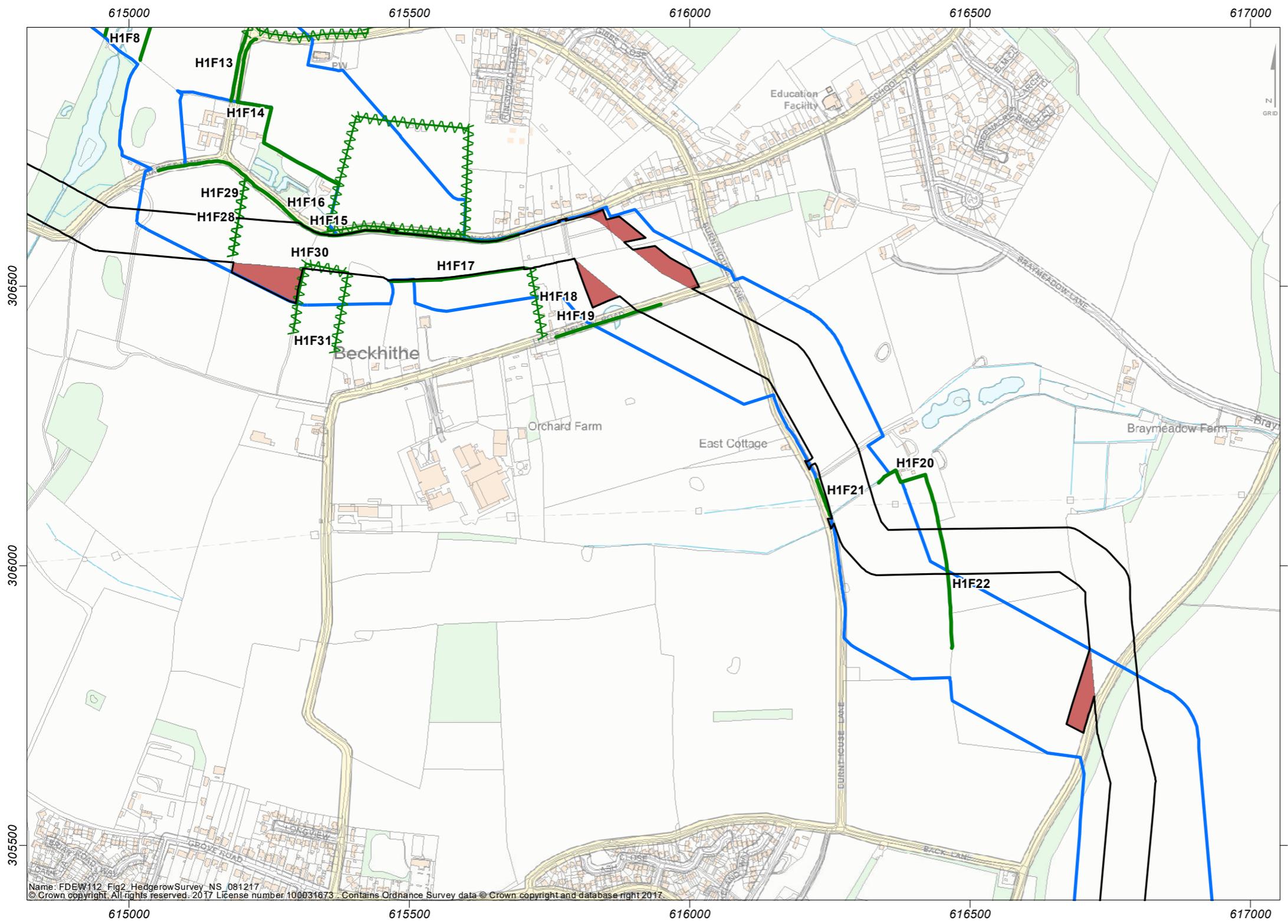
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Hornsea Project Three
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- Species Rich Hedgerow
- Species Poor Hedgerow
- Hedgerow Survey Area
- Storage Area
- Hornsea Three onshore cable corridor



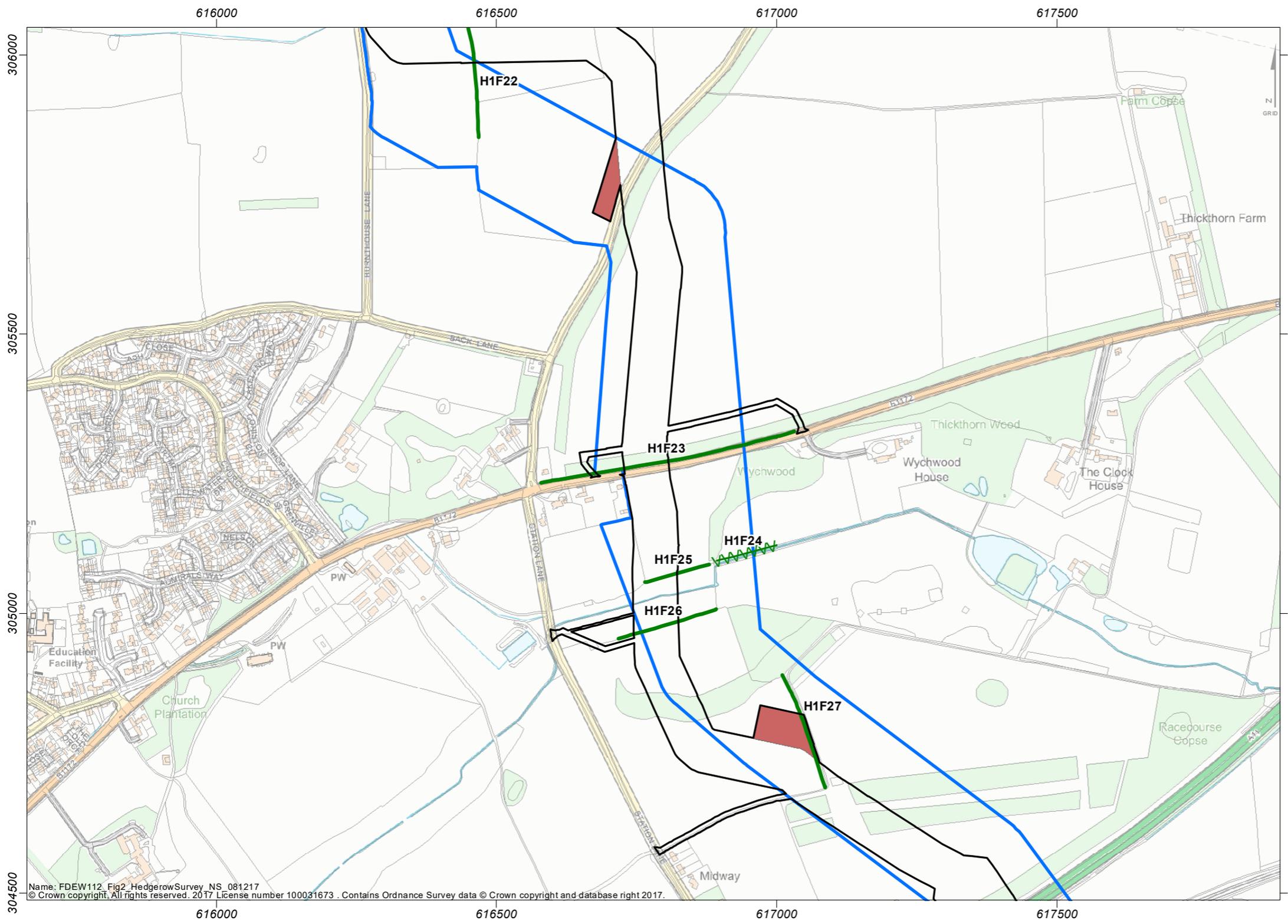
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Hornsea Project Three
 Figure: 2.31
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- Species Rich
- Species Poor
- Hedgerow Survey Area
- Storage Area
- Hornsea Three onshore cable corridor

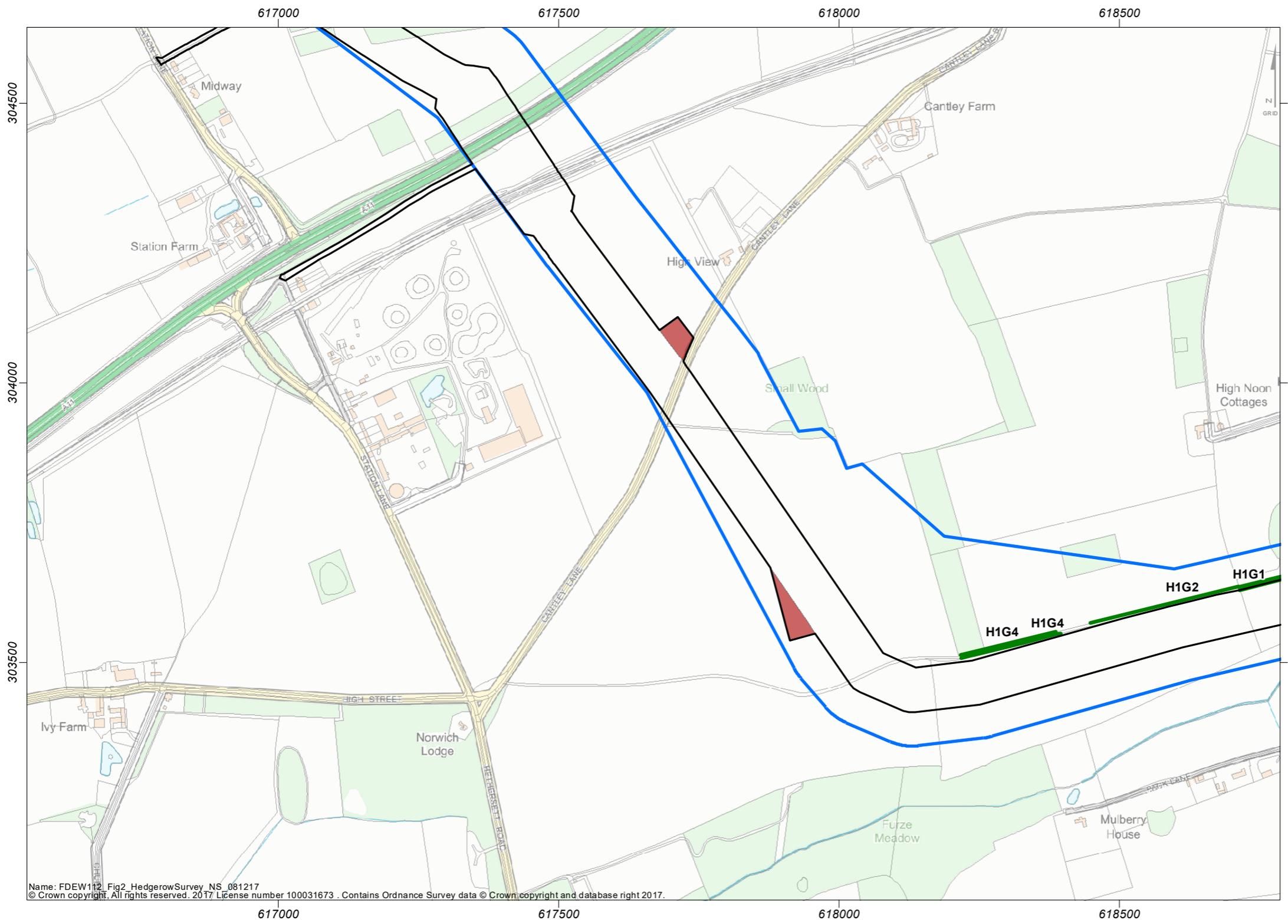


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Hornsea Project Three
 Figure: 2.32
 Hedgerow Survey Results.



- Species Pool
- Hedgerow Survey Area
- Storage Area
- Hornsea Three onshore cable corridor



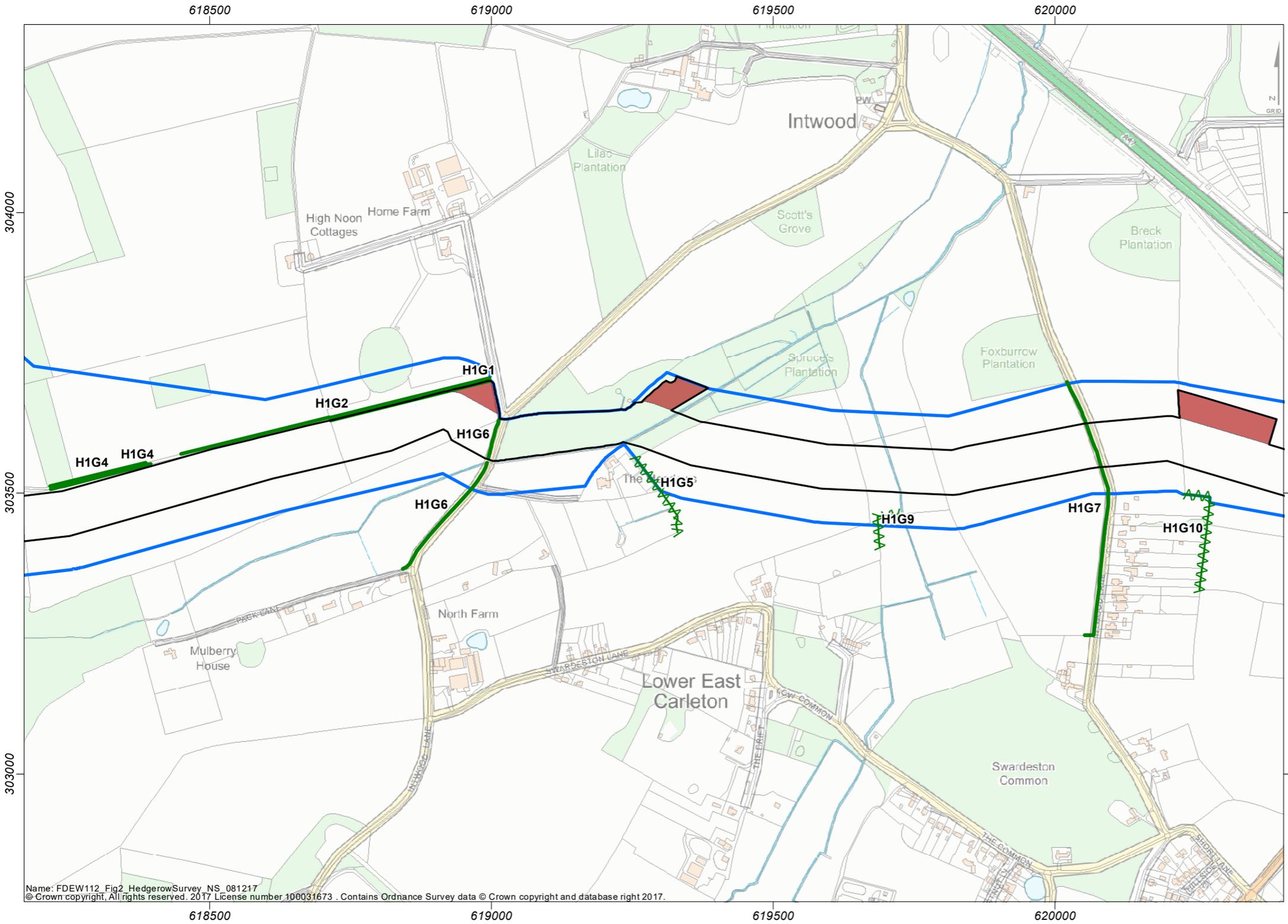
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Hornsea Project Three
 Figure: 2.33
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- Species Rich
- Species Poor
- Hedgerow Survey Area
- Storage Area
- Hornsea Three onshore cable corridor



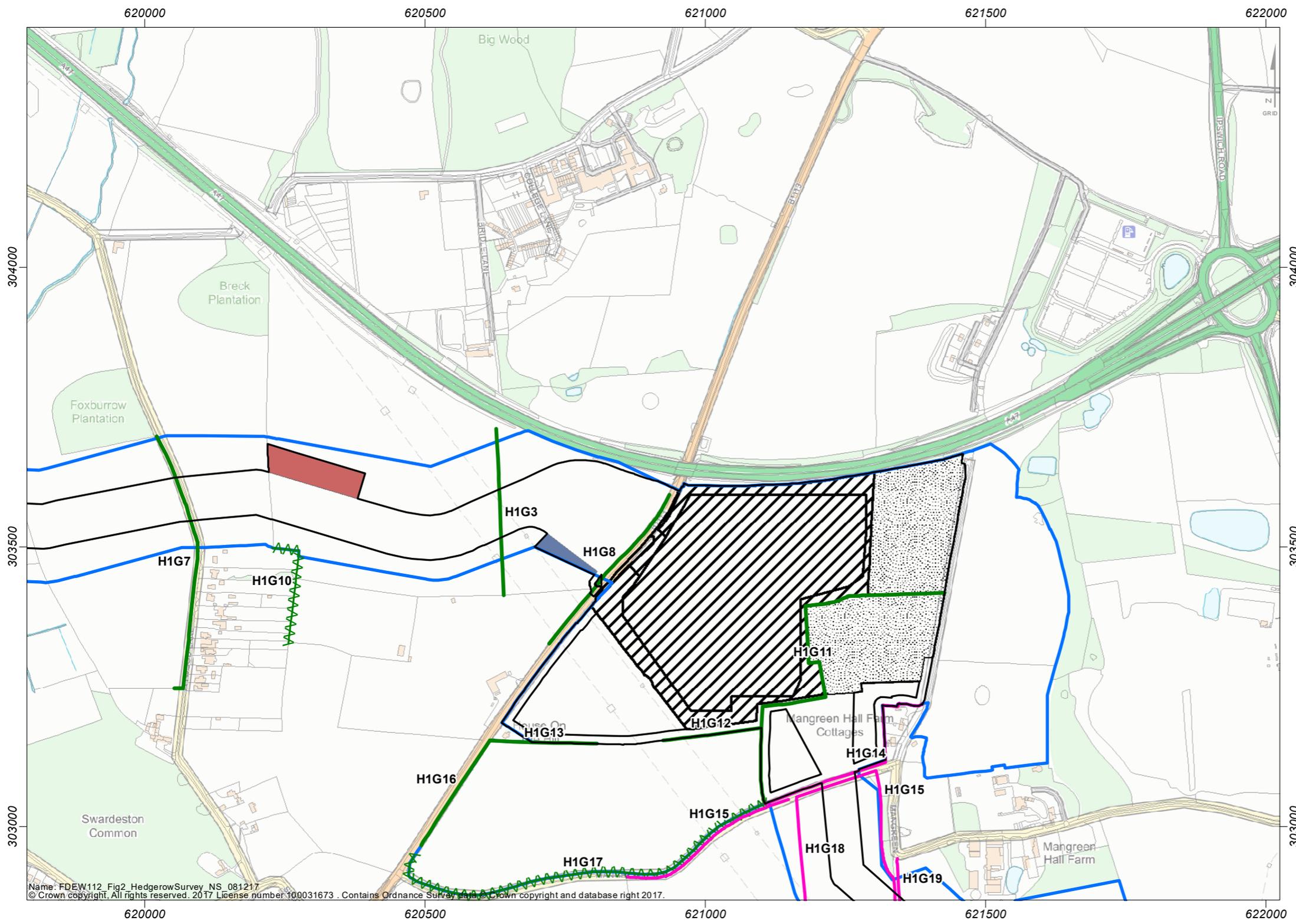
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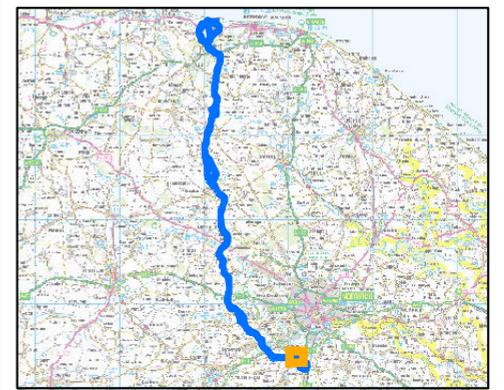
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 Hedgerow Survey Results.

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-  Species Rich
-  Species Poor
-  Hedgerow Not
-  Hedgerow Survey Area
-  Storage Area
-  Compound
-  Onshore HVDC converter/HVAC substation - Permanent
-  Onshore HVDC converter/HVAC substation - Temporary
-  Hornsea Three onshore cable corridor



Reference System : OSGB36
 Projection : BNG
 Scale@A3:1:7,964
 Vertical reference: Newlyn



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Hornsea Project Three
 Figure: 2.35
 Hedgerow Survey Results.

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620500 621000 621500 622000 622500

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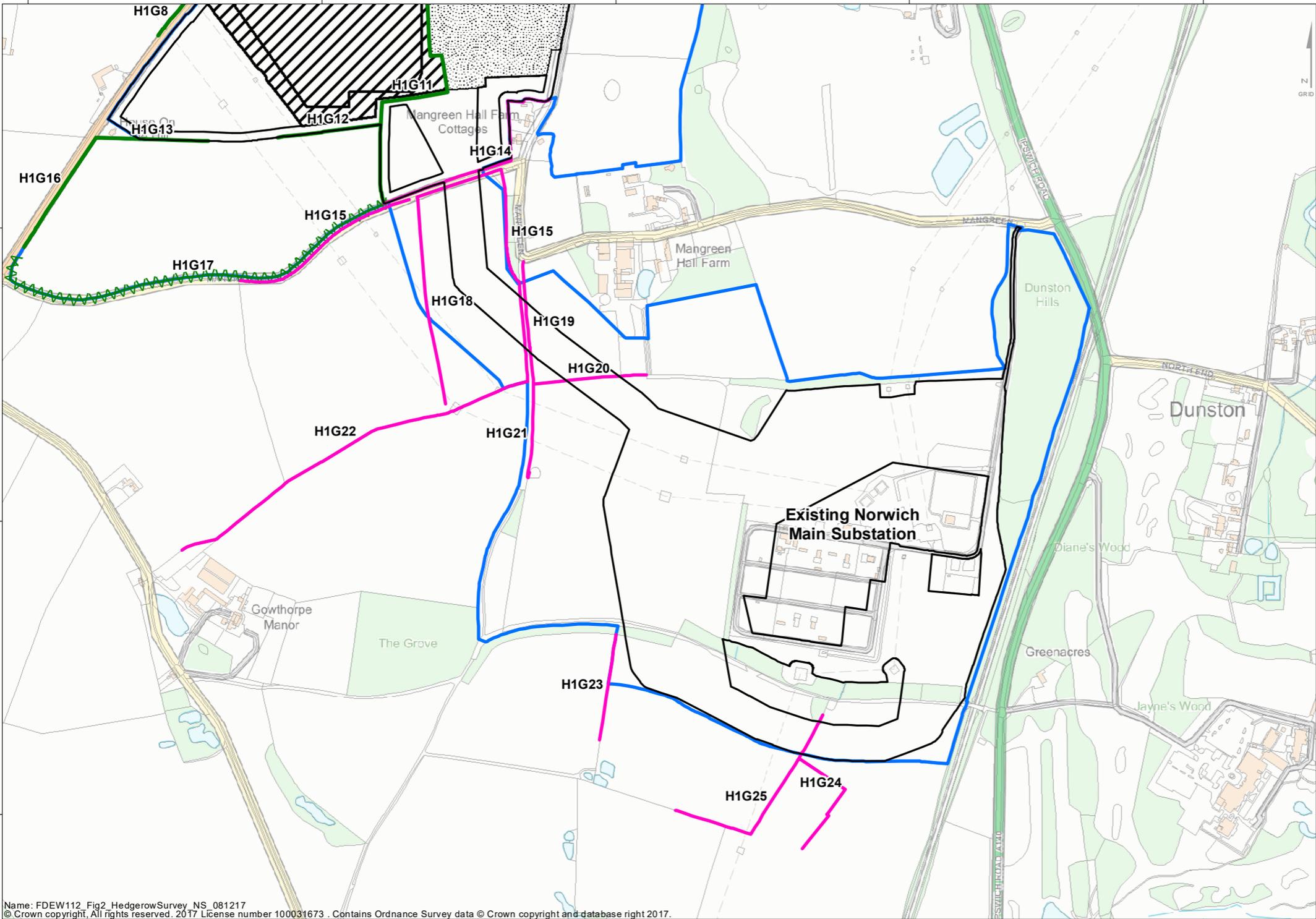
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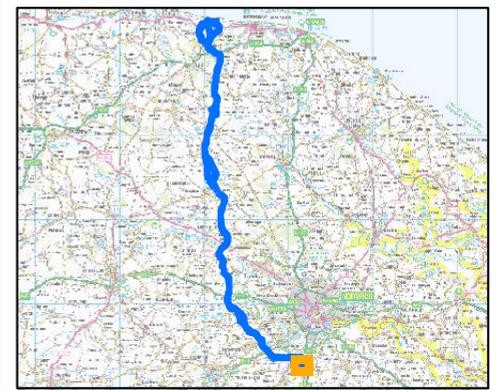
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- Species Rich
- Species Poor
- Hedgerow Not
- Hedgerow Survey Area
- Onshore HVDC converter/HVAC substation - Permanent
- Onshore HVDC converter/HVAC substation - Temporary
- Hornsea Three onshore cable corridor



Reference System : OSGB36
 Projection : BNG
 Scale@A3:1:7,964
 Vertical reference: Newlyn

0 220 Metres

REV	REMARK	DATE
01	Initial Issue	22/08/2017

Hornsea Project Three
 Figure: 2.36
 Hedgerow Survey Results.

Name: FDEW112_Fig2_HedgerowSurvey_NS_081217
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Appendix B Latin names and native/non-native status of woody species recorded during the hedgerow survey

Table B.1: Latin names and native / non-native status of woody species recorded during the hedgerow survey.

Common Name	Latin Name	Status
Ash	<i>Fraxinus excelsior</i>	native
Beech	<i>Fagus sylvatica</i>	native
Blackthorn	<i>Prunus spinosa</i>	native
Cherry laurel	<i>Prunus laurocerasus</i>	neophyte
Common alder	<i>Alnus glutinosa</i>	native
Copper beech	<i>Fagus sylvatica 'Purpurea'</i>	native
Crab apple	<i>Malus sylvestris</i>	native
Dog rose	<i>Rosa canina</i>	native
Dogwood	<i>Cornus sanguinea</i>	native
Elder	<i>Sambucus nigra</i>	native
English elm	<i>Ulmus minor var vulgaris</i>	native
Field maple	<i>Acer campestre</i>	native
Goat willow	<i>Salix caprea</i>	native
Gorse	<i>Ulex europaeus</i>	native
Guelder rose	<i>Viburnum opulus</i>	native
Hawthorn	<i>Crataegus sp.</i>	native
Hazel	<i>Corylus avellana</i>	native
Holly	<i>Ilex aquifolium</i>	native
Hornbeam	<i>Carpinus betulus</i>	native
Horse chestnut	<i>Aesculus hippocastanum</i>	neophyte
Pedunculate oak	<i>Quercus robur</i>	native
Redcurrant	<i>Ribes rubrum</i>	native
Rhododendron	<i>Rhododendron ponticum</i>	neophyte
Rowan	<i>Sorbus aucuparia</i>	native

Common Name	Latin Name	Status
Silver birch	<i>Betula pendula</i>	native
Spindle	<i>Euonymus europaeus</i>	native
Sweet chestnut	<i>Castanea sativa</i>	archaeophyte
Sycamore	<i>Acer pseudoplatanus</i>	uncertain status
Turkey oak	<i>Quercus cerris</i>	neophyte
unidentified box	<i>Buxus sp.</i>	native
unidentified <i>Choisya</i>	<i>Choisya sp.</i>	neophyte
unidentified <i>Cupressus</i>	<i>Cupressus sp.</i>	neophyte
unidentified larch	<i>Larix sp.</i>	neophyte
unidentified Oregon grape	<i>Mahonia sp.</i>	neophyte
unidentified <i>Prunus</i>	<i>Prunus sp.</i>	archaeophyte
unidentified snowberry	<i>Symphoricarpos sp.</i>	neophyte
unknown ornamental	-	neophyte
Wild cherry	<i>Prunus avium</i>	native
Wild privet	<i>Ligustrum vulgare</i>	native
Wych elm	<i>Ulmus glabra</i>	native

Appendix C Hedgerow survey results (per hedgerow unit)

C.1.1.1 Species-rich hedgerow units (i.e. hedgerow units with an average of five or more native / archaeophyte woody species per 30 m survey unit) are highlighted in bold. Hedgerow units that are within the Hornsea Three onshore cable corridor are indicated with asterisk (*) after the unit ID.

Table C.1: Hedgerow survey results (per hedgerow unit).

Hedgerow Unit ID	Length (m)	Surveyed	Number of survey units	Condition	Average number of native / archaeophyte woody species per 30m survey section
H1A1	70	Yes	2	unfavourable	3.5
H1A10*	241	Yes	2	unfavourable	5.0
H1A11*	143	Yes	2	unfavourable	3.5
H1A2	314	Yes	4	favourable	1.5
H1A3	150	Yes	2	unfavourable	4.0
H1A4	155	Yes	1	unfavourable	3.0
H1A5	229	Yes	2	unfavourable	4.0
H1A6	247	Yes	2	unfavourable	4.5
H1A6a	129	Yes	2	unfavourable	5.5
H1A7	44	Yes	1	unfavourable	6.0
H1A8*	379	Yes	4	unfavourable	3.8
H1A9*	299	Yes	3	unfavourable	4.7
H1B1	194	Yes	2	unfavourable	5.0
H1B10*	520	Yes	4	unfavourable	6.3
H1B11*	661	Yes	6	unfavourable	5.8
H1B12*	353	Yes	3	unfavourable	4.3
H1B2	204	Yes	2	unfavourable	5.5
H1B3*	164	Yes	2	unfavourable	5.5
H1B4*	158	Yes	2	unfavourable	4.0
H1B5	237	Yes	2	unfavourable	4.5
H1B6*	394	Yes	3	unfavourable	4.3

Hedgerow Unit ID	Length (m)	Surveyed	Number of survey units	Condition	Average number of native / archaeophyte woody species per 30m survey section
H1B7*	288	Yes	3	unfavourable	5.7
H1B8	202	Yes	2	unfavourable	6.5
H1B9	208	Yes	2	favourable	4.0
H1C1	417	Yes	3	unfavourable	3.3
H1C10	437	Yes	4	unfavourable	4.3
H1C11*	718	Yes	7	unfavourable	4.7
H1C12*	384	Yes	4	unfavourable	4.8
H1C13*	205	Yes	2	unfavourable	5.0
H1C14	261	Yes	2	unfavourable	4.5
H1C15	44	Yes	1	unfavourable	5.0
H1C16	114	Yes	1	unfavourable	7.0
H1C17	178	Yes	2	unfavourable	7.0
H1C18	167	Yes	2	unfavourable	5.5
H1C19	471	Yes	5	unfavourable	4.4
H1C2*	502	Yes	4	unfavourable	3.8
H1C20*	212	Yes	2	unfavourable	6.0
H1C21	631	Yes	6	unfavourable	5.2
H1C22	298	Yes	3	unfavourable	4.0
H1C23	243	Yes	2	unfavourable	6.0
H1C24	82	Yes	1	unfavourable	5.0
H1C25	308	Yes	3	unfavourable	5.0
H1C26	508	Yes	5	unfavourable	5.6
H1C27	170	Yes	2	unfavourable	5.5
H1C28	713	Yes	7	unfavourable	5.3
H1C29*	264	Yes	3	unfavourable	4.7
H1C3	74	Yes	1	unfavourable	3.0
H1C4	170	Yes	2	unfavourable	4.0
H1C5*	192	Yes	2	unfavourable	5.5

Hedgerow Unit ID	Length (m)	Surveyed	Number of survey units	Condition	Average number of native / archaeophyte woody species per 30m survey section
H1C6	67	Yes	1	unfavourable	5.0
H1C7	285	Yes	2	unfavourable	4.5
H1C8	144	Yes	1	unfavourable	4.0
H1C9	456	Yes	4	unfavourable	5.5
H1D1*	170	No	-	-	-
H1D2	148	Yes	2	unfavourable	5.5
H1D3*	490	No	-	-	-
H1D4*	266	No	-	-	-
H1D5*	262	No	-	-	-
H1D6*	600	No (does not meet criteria for hedge)	-	-	-
H1D7*	422	Yes	4	unfavourable	5.0
H1E1*	375	Yes	1	unfavourable	3.0
H1E10*	507	No	-	-	-
H1E11*	270	Yes	2	unfavourable	5.0
H1E2*	310	Yes	3	unfavourable	2.0
H1E3*	413	Yes	4	unfavourable	5.0
H1E4*	140	Yes	1	unfavourable	3.0
H1E5	171	Yes	2	unfavourable	4.5
H1E6	171	Yes	2	unfavourable	2.5
H1E7*	161	Yes	2	unfavourable	5.0
H1E8*	168	Yes	2	unfavourable	5.0
H1E9*	437	No	-	-	-
H1F1*	397	Yes	3	unfavourable	5.0
H1F10	470	Yes	4	unfavourable	4.0
H1F11	288	Yes	3	unfavourable	5.3
H1F12	610	Yes	6	unfavourable	5.0
H1F13	125	Yes	1	unfavourable	2.0

Hedgerow Unit ID	Length (m)	Surveyed	Number of survey units	Condition	Average number of native / archaeophyte woody species per 30m survey section
H1F14	400	Yes	4	unfavourable	3.3
H1F15	852	Yes	10	unfavourable	5.3
H1F16*	692	Yes	7	unfavourable	4.9
H1F17*	240	Yes	2	unfavourable	4.5
H1F18	134	Yes	1	unfavourable	6.0
H1F19*	196	Yes	2	unfavourable	4.5
H1F2*	331	No	-	-	-
H1F20*	192	Yes	2	unfavourable	4.0
H1F21	68	Yes	1	unfavourable	3.0
H1F22*	230	Yes	2	unfavourable	3.0
H1F23*	461	Yes	4	unfavourable	3.5
H1F24*	111	Yes	1	unfavourable	7.0
H1F25*	119	Yes	1	unfavourable	3.0
H1F26*	182	Yes	1	unfavourable	3.0
H1F27*	215	Yes	2	unfavourable	4.0
H1F28	141	Yes	1	unfavourable	6.0
H1F29*	141	Yes	2	unfavourable	6.0
H1F3*	583	Yes	5	unfavourable	4.0
H1F30*	199	Yes	3	unfavourable	5.7
H1F31*	141	Yes	2	unfavourable	6.0
H1F4*	579	Yes	5	unfavourable	3.8
H1F5*	78	Yes	1	unfavourable	5.0
H1F6	257	No	-	-	-
H1F7	325	No	-	-	-
H1F8	581	Yes	5	unfavourable	3.4
H1F9*	199	Yes	2	unfavourable	3.5
H1G1*	293	Yes	3	unfavourable	3.3
H1G10	214	Yes	1	unfavourable	7.0

Hedgerow Unit ID	Length (m)	Surveyed	Number of survey units	Condition	Average number of native / archaeophyte woody species per 30m survey section
H1G11*	724	Yes	7	unfavourable	4.4
H1G12*	177	Yes	1	unfavourable	4.0
H1G13	192	Yes	2	unfavourable	3.0
H1G14*	406	No	-	-	-
H1G15	854	No	-	-	-
H1G16	230	Yes	3	unfavourable	4.3
H1G17	726	Yes	7	unfavourable	6.3
H1G18*	352	No	-	-	-
H1G19*	210	No	-	-	-
H1G2	565	Yes	5	unfavourable	2.8
H1G20*	193	No	-	-	-
H1G21	169	No	-	-	-
H1G22	664	No	-	-	-
H1G23	182	No	-	-	-
H1G24	226	No	-	-	-
H1G25*	373	No	-	-	-
H1G3*	297	Yes	3	unfavourable	4.7
H1G4	356	Yes	3	unfavourable	3.0
H1G5	157	Yes	1	unfavourable	6.0
H1G6*	314	Yes	3	unfavourable	4.7
H1G7*	481	Yes	4	unfavourable	2.0
H1G8*	343	Yes	4	unfavourable	4.0
H1G9	96	Yes	1	unfavourable	5.0

Appendix D Species composition (per survey unit)

D.1.1.1 Species-rich survey units (i.e. containing at least five native or archaeophyte woody species) are highlighted in bold. Hedgerow units that are within the Hornsea Three onshore cable corridor are indicated with asterisk (*) after the unit ID.

Table D.1: Species composition of hedgerow survey units.

Hedgerow unit ID	Survey unit ID	Woody species composition (% cover)	Number of native / archaeophyte woody species
H1A1	185	hawthorn (80%), sycamore (5%)	2
H1A1	186	hawthorn (60%), ash (15%), blackthorn (10%), field maple (10%), dog rose (5%)	5
H1A10*	1	pedunculate oak (25%), sycamore (25%), hawthorn (20%), rowan (10%), beech (5%), silver birch (5%)	6
H1A10*	2	pedunculate oak (40%), blackthorn (30%), elder (5%), rowan (5%)	4
H1A11*	289	pedunculate oak (40%), blackthorn (15%), dog rose (10%), hawthorn (5%)	4
H1A11*	303	blackthorn (50%), elder (10%), dog rose (2%)	3
H1A2	187	blackthorn (20%), dog rose (10%)	2
H1A2	188	dog rose (10%)	1
H1A2	189	dog rose (50%)	1
H1A2	190	blackthorn (45%), dog rose (20%)	2
H1A3	191	blackthorn (25%), ash (20%), dog rose (10%), dogwood (10%), field maple (5%)	5
H1A3	192	blackthorn (30%), dogwood (20%), dog rose (5%)	3
H1A4	194	hawthorn (15%), dog rose (10%), elder (10%)	3
H1A5	199	field maple (30%), hawthorn (30%), hazel (10%)	3
H1A5	200	field maple (60%), hawthorn (20%), hazel (10%), dogwood (5%), sycamore (5%)	5
H1A6	197	blackthorn (70%), hawthorn (15%)	2
H1A6	198	hawthorn (65%), dogwood (15%), hazel (15%), field maple (10%), blackthorn (5%), holly (5%), sycamore (5%)	7
H1A6a	195	ash (40%), field maple (10%), holly (10%), dogwood (5%), hawthorn (5%)	5

Hedgerow unit ID	Survey unit ID	Woody species composition (% cover)	Number of native / archaeophyte woody species
H1A6a	196	pedunculate oak (25%), blackthorn (10%), hawthorn (10%), sycamore (10%), dog rose (5%), ash (3%)	6
H1A7	193	blackthorn (15%), hawthorn (15%), ash (10%), pedunculate oak (10%), dog rose (5%), holly (5%)	6
H1A8*	201	sycamore (40%), hawthorn (25%), holly (10%), pedunculate oak (10%)	4
H1A8*	202	sycamore (40%), hawthorn (20%), ash (10%), holly (10%), dog rose (5%)	5
H1A8*	203	sycamore (40%), hawthorn (30%), hazel (5%)	3
H1A8*	204	hawthorn (30%), sycamore (30%), hazel (5%)	3
H1A9*	205	hawthorn (30%), rhododendron (20%), silver birch (20%), pedunculate oak (10%)	3
H1A9*	208	hawthorn (30%), pedunculate oak (20%), rhododendron (20%), silver birch (5%), sycamore (5%)	4
H1A9*	209	silver birch (25%), sycamore (25%), hawthorn (15%), pedunculate oak (10%), beech (5%), dog rose (5%), holly (5%)	7
H1B1	3	hawthorn (50%), blackthorn (30%), elder (10%), hazel (10%)	4
H1B1	4	pedunculate oak (40%), hawthorn (25%), sycamore (15%), holly (10%), dog rose (5%), rowan (5%)	6
H1B10*	23	pedunculate oak (15%), sweet chestnut (15%), field maple (10%), hawthorn (10%), holly (10%), dog rose (5%)	6
H1B10*	24	blackthorn (35%), pedunculate oak (15%), ash (10%), hawthorn (10%), holly (10%), sweet chestnut (10%)	6
H1B10*	25	crab apple (30%), hazel (25%), hawthorn (20%), field maple (10%), pedunculate oak (10%), holly (5%), rowan (5%)	7
H1B10*	26	crab apple (35%), holly (15%), pedunculate oak (15%), ash (10%), beech (10%), sweet chestnut (10%)	6
H1B11*	27	blackthorn (30%), hawthorn (30%), hazel (15%), field maple (10%), dog rose (5%), holly (5%)	6
H1B11*	28	blackthorn (25%), hawthorn (25%), field maple (15%), hazel (15%), dog rose (5%), holly (5%), pedunculate oak (5%)	7
H1B11*	29	blackthorn (35%), hawthorn (25%), hazel (15%), field maple (10%), pedunculate oak (5%)	5

Hedgerow unit ID	Survey unit ID	Woody species composition (% cover)	Number of native / archaeophyte woody species
H1B11*	30	blackthorn (35%), hawthorn (30%), hazel (20%), holly (10%), pedunculate oak (5%)	5
H1B11*	31	hawthorn (35%), blackthorn (30%), hazel (20%), holly (15%), field maple (5%), pedunculate oak (5%)	6
H1B11*	32	blackthorn (30%), hawthorn (30%), field maple (15%), hazel (15%), holly (5%), pedunculate oak (5%)	6
H1B12*	33	blackthorn (20%), dog rose (15%), hawthorn (15%), ash (10%), hazel (10%)	5
H1B12*	34	hawthorn (70%), hazel (15%), dog rose (10%), pedunculate oak (10%)	4
H1B12*	35	hawthorn (60%), blackthorn (15%), dog rose (10%), elder (5%)	4
H1B2	5	hawthorn (40%), field maple (20%), blackthorn (10%), elder (10%), dog rose (5%)	5
H1B2	6	field maple (35%), blackthorn (25%), pedunculate oak (15%), hawthorn (10%), crab apple (5%), dog rose (5%)	6
H1B3*	7	hawthorn (30%), English elm (15%), field maple (15%), sycamore (15%), crab apple (5%)	5
H1B3*	8	blackthorn (20%), field maple (20%), ash (10%), crab apple (5%), dog rose (5%), hazel (5%)	6
H1B4*	9	blackthorn (65%), holly (25%), field maple (5%), hazel (5%)	4
H1B4*	10	blackthorn (25%), field maple (20%), hazel (20%), sycamore (10%)	4
H1B5	11	ash (40%), hawthorn (40%), dog rose (10%)	3
H1B5	12	field maple (30%), ash (15%), blackthorn (15%), hazel (15%), hawthorn (10%), dog rose (5%)	6
H1B6*	13	blackthorn (85%), elder (10%)	2
H1B6*	14	blackthorn (20%), hawthorn (20%), dog rose (10%), elder (10%), holly (10%), pedunculate oak (10%)	6
H1B6*	15	blackthorn (30%), goat willow (25%), ash (10%), hawthorn (10%), dog rose (5%)	5
H1B7*	16	holly (30%), field maple (25%), dog rose (10%), hawthorn (10%), ash (5%), pedunculate oak (5%)	6
H1B7*	17	blackthorn (25%), hazel (20%), holly (20%), dog rose (10%), pedunculate oak (10%)	5

Hedgerow unit ID	Survey unit ID	Woody species composition (% cover)	Number of native / archaeophyte woody species
H1B7*	18	dog rose (40%), pedunculate oak (15%), blackthorn (10%), hawthorn (10%), holly (10%), ash (5%)	6
H1B8	19	hawthorn (20%), beech (15%), ash (10%), hazel (10%), field maple (5%), holly (5%)	6
H1B8	20	hawthorn (35%), ash (20%), crab apple (15%), holly (15%), field maple (5%), hazel (5%), copper beech (3%)	7
H1B9	21	field maple (45%), hawthorn (45%), guelder rose (10%)	3
H1B9	22	field maple (40%), hawthorn (40%), dogwood (10%), copper beech (5%), sycamore (5%)	5
H1C1	36	hawthorn (60%), dog rose (15%), field maple (10%), hazel (5%)	4
H1C1	37	dog rose (40%), hawthorn (40%), pedunculate oak (20%)	3
H1C1	38	hawthorn (70%), dog rose (15%), pedunculate oak (15%)	3
H1C10	56	hawthorn (80%), dog rose (10%), ash (5%), pedunculate oak (5%)	4
H1C10	57	hawthorn (70%), ash (15%), blackthorn (5%), dog rose (5%)	4
H1C10	58	hawthorn (75%), ash (10%), blackthorn (5%), dog rose (5%), field maple (5%)	5
H1C10	59	blackthorn (30%), English elm (25%), hawthorn (15%), dog rose (5%)	4
H1C11*	210	hawthorn (80%), ash (20%), blackthorn (10%), dog rose (5%), pedunculate oak (3%), holly (2%)	6
H1C11*	211	blackthorn (40%), hawthorn (40%), ash (20%), field maple (10%), dog rose (5%), hazel (5%)	6
H1C11*	212	hawthorn (80%), ash (10%), dog rose (10%), pedunculate oak (2%)	4
H1C11*	213	blackthorn (50%), hawthorn (30%), pedunculate oak (20%), dog rose (5%)	4
H1C11*	214	blackthorn (40%), hawthorn (30%), pedunculate oak (20%), dog rose (5%), sycamore (5%)	5
H1C11*	215	hawthorn (90%), pedunculate oak (20%)	2
H1C11*	216	hawthorn (60%), dog rose (10%), field maple (10%), pedunculate oak (10%), blackthorn (5%), holly (5%)	6
H1C12*	60	blackthorn (30%), hawthorn (20%), holly (10%), dog rose (5%), sweet chestnut (5%)	5

Hedgerow unit ID	Survey unit ID	Woody species composition (% cover)	Number of native / archaeophyte woody species
H1C12*	61	hawthorn (65%), English elm (10%), field maple (10%), dog rose (5%), pedunculate oak (5%)	5
H1C12*	62	hawthorn (40%), blackthorn (20%), dog rose (10%), pedunculate oak (10%)	4
H1C12*	63	hawthorn (50%), blackthorn (15%), hazel (10%), dog rose (5%), pedunculate oak (5%)	5
H1C13*	219	blackthorn (50%), sycamore (30%), pedunculate oak (20%), hawthorn (10%), elder (5%)	5
H1C13*	220	blackthorn (30%), hornbeam (30%), hazel (20%), hawthorn (15%), beech (5%)	5
H1C14	217	hawthorn (60%), ash (20%), elder (20%), blackthorn (10%), dog rose (5%)	5
H1C14	218	blackthorn (70%), ash (50%), field maple (5%), hawthorn (5%)	4
H1C15	223	blackthorn (50%), field maple (40%), pedunculate oak (20%), dog rose (10%), ash (2%)	5
H1C16	226	hazel (40%), dogwood (30%), blackthorn (10%), dog rose (10%), field maple (5%), pedunculate oak (5%), sycamore (5%)	7
H1C17	224	hornbeam (40%), ash (20%), field maple (10%), unidentified box (10%), cherry laurel (5%), dog rose (5%), holly (5%), unidentified <i>Choisya</i> (5%)	6
H1C17	225	hazel (50%), ash (25%), dog rose (10%), field maple (10%), hawthorn (10%), dogwood (5%), holly (5%), pedunculate oak (2%)	8
H1C18	221	pedunculate oak (50%), hazel (30%), field maple (20%), holly (20%), blackthorn (10%), dogwood (10%), dog rose (5%)	7
H1C18	222	field maple (70%), English elm (20%), dog rose (10%), pedunculate oak (2%)	4
H1C19	236	blackthorn (60%), hawthorn (20%), dog rose (10%), ash (5%), holly (5%)	5
H1C19	237	blackthorn (80%), dog rose (15%), hawthorn (5%)	3
H1C19	238	hawthorn (65%), blackthorn (15%), unidentified larch (15%), dog rose (10%), ash (5%), crab apple (5%)	5
H1C19	239	hawthorn (90%), dog rose (10%), blackthorn (2%)	3
H1C19	240	blackthorn (50%), hawthorn (25%), pedunculate oak (15%), dog rose (10%), ash (5%), crab apple (5%)	6
H1C2*	41	hawthorn (10%), pedunculate oak (10%), crab apple (5%)	3
H1C2*	42	field maple (20%), ash (15%), blackthorn (15%), hazel (15%)	4

Hedgerow unit ID	Survey unit ID	Woody species composition (% cover)	Number of native / archaeophyte woody species
H1C2*	43	hazel (30%), hawthorn (15%), dog rose (5%), field maple (5%)	4
H1C2*	44	hawthorn (30%), blackthorn (15%), elder (5%), pedunculate oak (5%)	4
H1C20*	241	blackthorn (40%), hawthorn (40%), crab apple (10%), dog rose (5%), holly (5%)	5
H1C20*	242	pedunculate oak (40%), blackthorn (25%), ash (20%), hawthorn (20%), dog rose (10%), crab apple (5%), sycamore (5%)	7
H1C21	227	blackthorn (60%), sycamore (20%), sweet chestnut (10%), dog rose (5%), pedunculate oak (5%)	5
H1C21	228	hazel (30%), sycamore (30%), ash (20%), holly (10%), hawthorn (5%), dog rose (3%), blackthorn (2%)	7
H1C21	229	hawthorn (40%), blackthorn (20%), ash (10%), dog rose (10%), pedunculate oak (10%), sycamore (10%)	6
H1C21	230	hawthorn (65%), holly (20%), dog rose (10%), sycamore (5%)	4
H1C21	231	hawthorn (70%), dog rose (15%), pedunculate oak (10%), holly (5%)	4
H1C21	232	hawthorn (80%), holly (10%), dog rose (5%), sycamore (3%), ash (2%)	5
H1C22	243	hawthorn (80%), English elm (10%), crab apple (5%), dog rose (5%)	4
H1C22	244	hawthorn (60%), blackthorn (20%), dog rose (10%), crab apple (5%), sycamore (5%)	5
H1C22	245	hawthorn (60%), blackthorn (30%), dog rose (10%)	3
H1C23	246	blackthorn (40%), field maple (20%), hazel (20%), pedunculate oak (15%), dog rose (10%), dogwood (10%)	6
H1C23	247	field maple (70%), crab apple (30%), hazel (15%), blackthorn (5%), dog rose (5%), hawthorn (5%)	6
H1C24	260	ash (30%), blackthorn (30%), hawthorn (30%), dogwood (20%), dog rose (15%)	5
H1C25	248	blackthorn (50%), hawthorn (30%), hazel (10%), pedunculate oak (10%), dog rose (5%), holly (5%)	6
H1C25	249	blackthorn (40%), hawthorn (40%), dog rose (20%)	3
H1C25	250	blackthorn (50%), hawthorn (30%), ash (10%), dog rose (5%), dogwood (5%), pedunculate oak (5%)	6
H1C26	283	field maple (80%), hawthorn (10%), elder (5%), hazel (5%), wild cherry (5%)	5

Hedgerow unit ID	Survey unit ID	Woody species composition (% cover)	Number of native / archaeophyte woody species
H1C26	284	field maple (70%), hazel (20%), ash (10%), hawthorn (10%), blackthorn (5%)	5
H1C26	285	ash (40%), pedunculate oak (40%), field maple (10%), hawthorn (10%), hazel (5%), holly (5%)	6
H1C26	286	hawthorn (40%), pedunculate oak (30%), hazel (20%), elder (15%), dog rose (5%)	5
H1C26	287	hazel (25%), pedunculate oak (15%), ash (10%), dogwood (10%), hawthorn (10%), holly (10%), blackthorn (5%)	7
H1C27	251	hawthorn (40%), blackthorn (30%), pedunculate oak (25%), dogwood (20%), dog rose (3%), field maple (2%)	6
H1C27	252	dogwood (40%), hawthorn (40%), ash (20%), holly (5%), dog rose (2%)	5
H1C28	253	hawthorn (70%), elder (15%), blackthorn (10%), field maple (5%)	4
H1C28	254	hazel (40%), English elm (30%), pedunculate oak (30%), elder (15%), field maple (10%), blackthorn (5%)	6
H1C28	255	hazel (50%), blackthorn (10%), elder (10%), English elm (10%), field maple (10%), holly (10%)	6
H1C28	256	hazel (70%), common alder (20%), field maple (10%), holly (10%), pedunculate oak (10%)	5
H1C28	257	hazel (70%), field maple (20%), dog rose (5%), holly (5%)	4
H1C28	258	hazel (60%), ash (20%), dogwood (15%), blackthorn (10%), hawthorn (5%)	5
H1C28	259	hawthorn (30%), hazel (30%), pedunculate oak (30%), field maple (20%), elder (10%), crab apple (5%), dogwood (5%)	7
H1C29*	233	hawthorn (50%), pedunculate oak (20%), dog rose (10%), holly (10%), blackthorn (5%), goat willow (5%)	6
H1C29*	234	blackthorn (40%), hawthorn (40%), dog rose (15%), ash (5%)	4
H1C29*	235	blackthorn (70%), sycamore (20%), ash (15%), hawthorn (10%)	4
H1C3	45	blackthorn (30%), field maple (30%), hawthorn (5%)	3
H1C4	39	field maple (30%), blackthorn (20%), hawthorn (15%), pedunculate oak (10%), dog rose (5%)	5
H1C4	40	field maple (40%), hawthorn (40%), crab apple (5%)	3
H1C5*	46	field maple (25%), hawthorn (25%), pedunculate oak (15%), holly (10%), blackthorn (5%), elder (5%), hazel (5%)	7

Hedgerow unit ID	Survey unit ID	Woody species composition (% cover)	Number of native / archaeophyte woody species
H1C5*	47	blackthorn (75%), hawthorn (15%), dog rose (5%), pedunculate oak (5%)	4
H1C6	48	blackthorn (35%), hawthorn (35%), pedunculate oak (15%), dog rose (5%), elder (5%)	5
H1C7	49	hawthorn (40%), pedunculate oak (30%), blackthorn (5%), field maple (5%)	4
H1C7	50	pedunculate oak (40%), hawthorn (25%), ash (15%), dog rose (5%), gorse (5%)	5
H1C8	55	hawthorn (25%), pedunculate oak (10%), blackthorn (5%), holly (5%)	4
H1C9	51	field maple (25%), blackthorn (15%), hawthorn (15%), dogwood (10%), wild cherry (10%), ash (5%), dog rose (5%)	7
H1C9	52	holly (20%), hawthorn (15%), hazel (10%), pedunculate oak (10%), dog rose (5%), elder (5%)	6
H1C9	53	English elm (20%), hawthorn (20%), field maple (10%), elder (5%)	4
H1C9	54	blackthorn (25%), hawthorn (25%), dog rose (10%), English elm (10%), pedunculate oak (10%)	5
H1D2	183	blackthorn (35%), hawthorn (20%), holly (20%), English elm (15%), hazel (5%)	5
H1D2	184	blackthorn (40%), hazel (40%), English elm (25%), dog rose (5%), field maple (5%), holly (5%)	6
H1D7*	278	field maple (80%), ash (10%), beech (10%), hawthorn (10%)	4
H1D7*	279	field maple (60%), hawthorn (30%), beech (20%), pedunculate oak (15%), ash (10%), dog rose (5%), wild privet (5%)	7
H1D7*	280	hawthorn (70%), pedunculate oak (40%), field maple (20%), beech (15%), wild privet (15%)	5
H1D7*	281	hawthorn (50%), field maple (30%), pedunculate oak (30%), beech (10%)	4
H1E1*	274	hawthorn (50%), blackthorn (40%), elder (10%)	3
H1E11*	290	hawthorn (20%), wild cherry (20%), field maple (15%), blackthorn (10%), dogwood (5%), hazel (3%)	6
H1E11*	291	field maple (70%), blackthorn (25%), hazel (15%), crab apple (5%)	4
H1E2*	275	hawthorn (100%)	1
H1E2*	276	blackthorn (50%), hawthorn (50%)	2
H1E2*	277	hawthorn (60%), blackthorn (25%), dog rose (15%)	3

Hedgerow unit ID	Survey unit ID	Woody species composition (% cover)	Number of native / archaeophyte woody species
H1E3*	269	hawthorn (95%), pedunculate oak (25%), ash (20%), field maple (3%), blackthorn (2%)	5
H1E3*	270	hawthorn (85%), ash (15%), field maple (10%), pedunculate oak (10%), wild cherry (10%)	5
H1E3*	271	hawthorn (90%), field maple (20%), English elm (5%), elder (3%), pedunculate oak (2%)	5
H1E3*	272	hawthorn (80%), English elm (10%), blackthorn (5%), elder (5%), pedunculate oak (5%)	5
H1E4*	273	hawthorn (90%), pedunculate oak (20%), blackthorn (5%)	3
H1E5	265	English elm (60%), pedunculate oak (50%), crab apple (10%), dog rose (5%)	4
H1E5	266	hazel (50%), field maple (20%), pedunculate oak (20%), hawthorn (15%), blackthorn (10%)	5
H1E6	267	hawthorn (60%), crab apple (20%), dog rose (10%), blackthorn (5%), unidentified Oregon grape (5%)	4
H1E6	268	unknown ornamental (90%), hawthorn (10%)	1
H1E7*	263	pedunculate oak (50%), blackthorn (40%), dogwood (15%), field maple (10%)	4
H1E7*	264	blackthorn (40%), field maple (30%), holly (20%), dog rose (5%), hazel (5%), pedunculate oak (5%)	6
H1E8*	261	hawthorn (50%), blackthorn (20%), dogwood (10%), field maple (10%), pedunculate oak (5%), spindle (5%)	6
H1E8*	262	hawthorn (40%), field maple (30%), dogwood (25%), blackthorn (5%)	4
H1F1*	292	hawthorn (70%), blackthorn (20%), hazel (10%), dog rose (5%)	4
H1F1*	293	hawthorn (70%), field maple (20%), blackthorn (5%), dogwood (5%), hazel (3%)	5
H1F1*	294	hawthorn (70%), blackthorn (15%), field maple (10%), redcurrant (5%), hazel (3%), dogwood (2%)	6
H1F10	166	English elm (70%), pedunculate oak (20%), elder (5%), hawthorn (5%)	4
H1F10	167	English elm (40%), pedunculate oak (40%), hawthorn (15%), dog rose (10%)	4
H1F10	168	hawthorn (40%), pedunculate oak (40%), English elm (10%), blackthorn (1%)	4
H1F10	169	hawthorn (60%), pedunculate oak (40%), elder (10%), dog rose (5%)	4

Hedgerow unit ID	Survey unit ID	Woody species composition (% cover)	Number of native / archaeophyte woody species
H1F11	139	field maple (60%), hawthorn (15%), blackthorn (10%), English elm (10%), crab apple (5%)	5
H1F11	140	English elm (45%), hawthorn (25%), dogwood (15%), field maple (5%)	4
H1F11	141	field maple (30%), hawthorn (30%), pedunculate oak (20%), blackthorn (15%), English elm (15%), dog rose (10%), dogwood (5%)	7
H1F12	142	hawthorn (60%), English elm (25%), pedunculate oak (20%), crab apple (10%)	4
H1F12	143	field maple (40%), blackthorn (30%), ash (25%), hawthorn (5%)	4
H1F12	144	ash (20%), pedunculate oak (20%), English elm (15%), field maple (15%), hazel (15%), hawthorn (10%)	6
H1F12	145	blackthorn (45%), field maple (20%), ash (10%), crab apple (10%), English elm (10%), dog rose (5%)	6
H1F12	146	dogwood (50%), English elm (15%), field maple (15%), hawthorn (10%), blackthorn (5%), dog rose (5%)	6
H1F12	147	hawthorn (80%), ash (15%), field maple (10%), dog rose (5%)	4
H1F13	138	English elm (95%), dog rose (5%)	2
H1F14	137	blackthorn (35%), hawthorn (35%), ash (25%), elder (5%)	4
H1F14	148	English elm (40%), field maple (40%), crab apple (10%)	3
H1F14	149	hawthorn (70%), English elm (20%), blackthorn (10%), hazel (10%)	4
H1F14	150	horse chestnut (50%), elder (40%), hawthorn (10%)	2
H1F15	151	English elm (60%), field maple (10%), hazel (10%), blackthorn (5%), hawthorn (5%)	5
H1F15	152	goat willow (80%), blackthorn (15%), dogwood (10%)	3
H1F15	153	goat willow (40%), hawthorn (20%), English elm (10%), field maple (10%), pedunculate oak (10%), dog rose (5%), dogwood (5%)	7
H1F15	154	hawthorn (60%), blackthorn (10%), dogwood (10%), ash (5%), elder (5%), pedunculate oak (5%)	6
H1F15	155	hawthorn (40%), dogwood (20%), blackthorn (15%), dog rose (15%), pedunculate oak (10%)	5
H1F15	156	hawthorn (40%), dogwood (20%), blackthorn (15%), dog rose (15%), pedunculate oak (10%)	5

Hedgerow unit ID	Survey unit ID	Woody species composition (% cover)	Number of native / archaeophyte woody species
H1F15	157	hawthorn (40%), dogwood (20%), blackthorn (15%), dog rose (15%), pedunculate oak (10%)	5
H1F15	158	ash (20%), blackthorn (15%), field maple (15%), hawthorn (15%), pedunculate oak (15%), dog rose (10%), dogwood (10%)	7
H1F15	159	beech (80%), blackthorn (10%), English elm (5%), field maple (5%)	4
H1F15	160	blackthorn (40%), English elm (40%), dog rose (5%), field maple (5%), hazel (5%), pedunculate oak (5%)	6
H1F16*	130	hawthorn (60%), English elm (20%), ash (10%), dog rose (5%), dogwood (5%)	5
H1F16*	131	blackthorn (50%), English elm (20%), field maple (15%), dog rose (10%), ash (5%), dogwood (5%)	6
H1F16*	132	dogwood (50%), hawthorn (45%), dog rose (5%)	3
H1F16*	133	hawthorn (25%), blackthorn (20%), field maple (20%), ash (15%), dogwood (10%), dog rose (5%)	6
H1F16*	134	field maple (50%), hawthorn (20%), ash (15%), dog rose (10%), hazel (5%), pedunculate oak (5%)	6
H1F16*	135	hazel (80%), field maple (5%)	2
H1F16*	136	holly (40%), ash (15%), blackthorn (15%), English elm (15%), field maple (10%), hazel (10%)	6
H1F17*	128	hawthorn (50%), blackthorn (20%), pedunculate oak (20%), English elm (15%), dog rose (10%), dogwood (5%)	6
H1F17*	129	hawthorn (90%), ash (20%), dog rose (10%)	3
H1F18	127	hawthorn (40%), pedunculate oak (30%), elder (15%), ash (10%), blackthorn (10%), English elm (5%)	6
H1F19*	125	pedunculate oak (80%), hawthorn (30%), dog rose (10%)	3
H1F19*	126	hawthorn (70%), pedunculate oak (20%), blackthorn (15%), dogwood (10%), ash (5%), dog rose (5%)	6
H1F20*	122	English elm (50%), pedunculate oak (30%), hazel (20%), elder (10%)	4
H1F20*	123	English elm (30%), unidentified <i>Cupressus</i> (30%), ash (20%), cherry laurel (20%), hawthorn (10%), hazel (10%)	4
H1F21	124	pedunculate oak (40%), elder (30%), cherry laurel (20%), wild cherry (10%)	3

Hedgerow unit ID	Survey unit ID	Woody species composition (% cover)	Number of native / archaeophyte woody species
H1F22*	120	ash (25%), pedunculate oak (25%), hawthorn (20%)	3
H1F22*	121	pedunculate oak (45%), English elm (35%), hawthorn (5%)	3
H1F23*	111	English elm (40%), field maple (30%), wild cherry (20%), hawthorn (10%)	4
H1F23*	112	field maple (80%), wild cherry (10%), hawthorn (5%), hazel (5%)	4
H1F23*	113	field maple (90%), hawthorn (10%)	2
H1F23*	114	field maple (85%), hawthorn (10%), wild cherry (4%), blackthorn (1%)	4
H1F24*	116	beech (20%), field maple (20%), hawthorn (20%), pedunculate oak (20%), elder (10%), holly (10%), blackthorn (5%)	7
H1F25*	115	elder (40%), hawthorn (40%), pedunculate oak (10%)	3
H1F26*	117	hawthorn (60%), elder (35%), holly (5%)	3
H1F27*	118	blackthorn (80%), hawthorn (20%)	2
H1F27*	119	hawthorn (60%), English elm (20%), holly (10%), silver birch (5%), field maple (4%), hazel (1%)	6
H1F28	295	hawthorn (60%), English elm (20%), hazel (10%), dog rose (5%), elder (3%), field maple (2%)	6
H1F29*	296	hawthorn (80%), pedunculate oak (30%), ash (15%), dog rose (15%), dogwood (10%), blackthorn (2%)	6
H1F29*	297	hawthorn (80%), pedunculate oak (30%), ash (10%), blackthorn (10%), dog rose (10%), wild privet (2%)	6
H1F3*	177	English elm (40%), hawthorn (40%), blackthorn (15%), crab apple (5%)	4
H1F3*	178	blackthorn (40%), hawthorn (40%), unidentified <i>Prunus</i> (5%)	3
H1F3*	179	blackthorn (30%), pedunculate oak (20%), hawthorn (15%), crab apple (10%), dog rose (5%), English elm (5%), field maple (5%)	7
H1F3*	180	dog rose (15%), English elm (10%), elder (5%)	3
H1F3*	181	English elm (40%), field maple (40%), elder (10%)	3
H1F30*	298	blackthorn (90%), field maple (5%), hazel (5%)	3
H1F30*	299	blackthorn (70%), hornbeam (20%), field maple (15%), hazel (10%)	4

Hedgerow unit ID	Survey unit ID	Woody species composition (% cover)	Number of native / archaeophyte woody species
H1F30*	300	field maple (50%), hawthorn (30%), ash (20%), goat willow (15%), dogwood (10%), wild cherry (10%), blackthorn (5%), elder (5%), hazel (5%), English elm (3%)	10
H1F31*	301	blackthorn (80%), hazel (20%), ash (15%), dogwood (10%), hawthorn (10%), field maple (5%)	6
H1F31*	302	blackthorn (30%), hazel (30%), field maple (15%), dogwood (10%), dog rose (3%), English elm (2%)	6
H1F4*	172	hawthorn (90%), English elm (10%)	2
H1F4*	173	hawthorn (60%), English elm (15%), field maple (5%), elder (3%), wild cherry (1%)	5
H1F4*	174	hawthorn (60%), English elm (20%), field maple (5%), blackthorn (3%), rowan (2%)	5
H1F4*	175	hawthorn (80%), dog rose (5%), field maple (5%), hazel (5%), spindle (5%)	5
H1F4*	176	hawthorn (95%), elder (5%)	2
H1F5*	182	hawthorn (80%), dog rose (5%), field maple (5%), hazel (5%), hornbeam (5%)	5
H1F8	161	blackthorn (80%), English elm (10%), unidentified snowberry (10%)	2
H1F8	162	blackthorn (70%), hazel (20%), pedunculate oak (10%), field maple (5%), hawthorn (5%)	5
H1F8	163	English elm (25%), hawthorn (25%), hazel (25%), hornbeam (25%)	4
H1F8	164	hawthorn (40%), elder (30%), hazel (20%), dog rose (15%)	4
H1F8	165	hawthorn (90%), elder (10%)	2
H1F9*	170	hazel (90%), field maple (10%)	2
H1F9*	171	blackthorn (30%), field maple (25%), hazel (15%), dog rose (10%), elder (10%)	5
H1G1*	108	hawthorn (90%), blackthorn (5%), elder (5%)	3
H1G1*	109	hawthorn (80%), blackthorn (15%), elder (5%)	3
H1G1*	110	hawthorn (80%), dog rose (10%), elder (10%), pedunculate oak (10%)	4
H1G10	288	hawthorn (65%), unidentified Prunus (20%), blackthorn (15%), elder (10%), pedunculate oak (10%), beech (5%), unidentified snowberry (5%), dog rose (2%)	7
H1G11*	84	pedunculate oak (60%), elder (15%), field maple (15%), hawthorn (15%), holly (15%)	5

Hedgerow unit ID	Survey unit ID	Woody species composition (% cover)	Number of native / archaeophyte woody species
H1G11*	85	blackthorn (30%), hawthorn (30%), elder (15%), ash (10%), holly (10%), pedunculate oak (5%)	6
H1G11*	86	hawthorn (25%), blackthorn (15%), elder (15%), pedunculate oak (15%), holly (10%), English elm (5%)	6
H1G11*	87	hawthorn (60%), blackthorn (15%), pedunculate oak (15%), crab apple (10%)	4
H1G11*	88	hawthorn (65%), elder (25%), Turkey oak (10%)	2
H1G11*	89	hawthorn (45%), pedunculate oak (45%), dog rose (10%)	3
H1G11*	90	pedunculate oak (40%), hawthorn (30%), ash (20%), blackthorn (20%), English elm (10%)	5
H1G12*	83	hawthorn (75%), dog rose (10%), elder (5%), pedunculate oak (1%)	4
H1G13	81	hawthorn (70%), pedunculate oak (20%), elder (10%)	3
H1G13	82	hawthorn (70%), blackthorn (20%), pedunculate oak (10%)	3
H1G16	68	English elm (40%), hazel (20%), pedunculate oak (20%), field maple (10%), hawthorn (10%)	5
H1G16	69	wild cherry (30%), blackthorn (20%), English elm (20%), pedunculate oak (20%), field maple (10%)	5
H1G16	70	blackthorn (40%), English elm (30%), hawthorn (30%)	3
H1G17	74	blackthorn (40%), hawthorn (20%), field maple (15%), English elm (10%), ash (5%), crab apple (5%), dog rose (5%)	7
H1G17	75	blackthorn (15%), field maple (15%), hawthorn (15%), ash (10%), dog rose (10%), pedunculate oak (10%), English elm (5%)	7
H1G17	76	blackthorn (30%), field maple (30%), hawthorn (20%), dog rose (10%), pedunculate oak (10%)	5
H1G17	77	field maple (30%), English elm (25%), hawthorn (15%), pedunculate oak (15%), hazel (5%)	5
H1G17	78	hawthorn (30%), blackthorn (20%), field maple (20%), pedunculate oak (15%), crab apple (10%), dog rose (5%), hazel (5%)	7
H1G17	79	field maple (30%), hawthorn (15%), blackthorn (10%), ash (5%), dog rose (5%), hazel (5%), pedunculate oak (5%)	7

Hedgerow unit ID	Survey unit ID	Woody species composition (% cover)	Number of native / archaeophyte woody species
H1G17	80	hawthorn (40%), English elm (20%), field maple (15%), pedunculate oak (15%), ash (5%), dog rose (5%)	6
H1G2	100	hawthorn (90%), pedunculate oak (10%)	2
H1G2	101	hawthorn (90%), pedunculate oak (10%)	2
H1G2	102	hawthorn (80%), pedunculate oak (15%), dog rose (5%)	3
H1G2	103	hawthorn (90%), dog rose (5%), pedunculate oak (5%)	3
H1G2	104	hawthorn (50%), pedunculate oak (50%), blackthorn (10%), elder (5%)	4
H1G3*	71	blackthorn (15%), crab apple (15%), elder (15%), field maple (15%), hawthorn (15%)	5
H1G3*	72	blackthorn (30%), hawthorn (30%), crab apple (20%), English elm (10%), holly (10%)	5
H1G3*	73	wych elm (40%), blackthorn (20%), elder (20%), hawthorn (20%)	4
H1G4	105	hawthorn (60%), ash (10%), field maple (10%), pedunculate oak (10%), blackthorn (5%), dog rose (5%)	6
H1G4	106	hawthorn (50%), dog rose (25%)	2
H1G4	107	dog rose (5%)	1
H1G5	96	hazel (20%), blackthorn (15%), field maple (15%), hawthorn (15%), pedunculate oak (15%), English elm (10%)	6
H1G6	97	English elm (80%), pedunculate oak (10%), dog rose (5%), hawthorn (5%)	4
H1G6*	98	English elm (50%), hawthorn (30%), blackthorn (10%), ash (5%), hazel (5%)	5
H1G6*	99	English elm (40%), hawthorn (30%), ash (20%), dog rose (5%), crab apple (1%)	5
H1G7*	91	hawthorn (90%), pedunculate oak (10%)	2
H1G7*	92	hawthorn (90%), pedunculate oak (10%)	2
H1G7*	93	hawthorn (85%), pedunculate oak (10%), dog rose (5%)	3
H1G7*	94	English elm (100%)	1
H1G8*	64	hawthorn (70%), blackthorn (10%), elder (5%), field maple (5%)	4
H1G8*	65	hawthorn (60%), blackthorn (15%), field maple (15%), pedunculate oak (10%)	4
H1G8*	66	blackthorn (40%), hawthorn (40%), dog rose (10%), field maple (10%)	4

Hedgerow unit ID	Survey unit ID	Woody species composition (% cover)	Number of native / archaeophyte woody species
H1G8*	67	hawthorn (40%), ash (20%), dog rose (20%), English elm (20%)	4
H1G9	95	common alder (30%), blackthorn (20%), hawthorn (20%), ash (15%), holly (15%)	5

Appendix E Hedgerow survey units in which woody neophyte (recently introduced) species were recorded

Table E.1: Hedgerow survey units in which woody neophyte species were recorded.

Hedgerow unit ID	Survey unit ID	Total cover of neophyte species (%)	Neophyte species (cover %)
H1A9*	205	20	rhododendron (20%)
H1A9*	208	20	rhododendron (20%)
H1C17	224	10	cherry laurel (5%), unidentified <i>Choisya</i> (5%)
H1C19	238	15	unidentified larch (15%)
H1E6	267	5	unidentified Oregon grape (5%)
H1E6	268	90	unknown ornamental (90%)
H1F14	150	50	horse chestnut (50%)
H1F20*	123	50	unidentified <i>Cupressus</i> (30%), cherry laurel (20%)
H1F21	124	20	cherry laurel (20%)
H1F8	161	10	unidentified snowberry (10%)
H1G10	288	5	unidentified snowberry (5%)
H1G11*	88	10	Turkey oak (10%)

Hedgerow units that are within the Hornsea Three onshore cable corridor are indicated with asterisk (*) after the unit ID.

Appendix F Hedgerow survey results (per survey unit)

Table F.1: Hedgerow survey results (per survey unit).

Hedgerow unit ID	Survey Unit ID	Hedge type	Number of connections		Adjacent landuse		Bank height side A (m)	Herb height side A	Fence	Ditch	Width of undisturbed bed	Width of herbaceous	Nettles (%)	Cleavers (%)	Docks (%)	Hedgerow shape	Hedge height (m)	Hedge width (m)	Gaps (%)	Large gaps?	Canopy base height (m)	Orientation of Side A	Condition
			End 1	End 2	Side A	Side B																	
H1A1	185	Shrubby with line of trees	1	2	Arable crop	Arable crop	0	50			2.5	2	5	5	0	Trimmed & dense	5	7	0	No	0.5	West	unfavourable
H1A1	186	Shrubby hedgerow	2	1	Arable crop	Arable crop	0	50			2.5	2	5	5	0	Trimmed & dense	5	5	0	No	1.7	West	unfavourable
H1A10*	1	Line of trees	1	1	Footpath	Arable crop	0.5	75			1.5	1.5	50	25	5	Untrimmed	15	10	10	No	1.5	West	unfavourable
H1A10*	2	Shrubby hedgerow	1	1	Footpath	Arable crop	0.5	75			2	2	60	15	5	Untrimmed	15	10	5	No	1.5	West	unfavourable
H1A11*	289	Line of trees	1	1	Minor road	Arable crop	0.5	50			0.5	0.5	60	10	0	Untrimmed, with outgrowth	3.5	1	10	No	0.5	North	unfavourable
H1A11*	303	Shrubby hedgerow	1	1	Minor road	Arable crop	1.5	75			1	1	75	5	5	Untrimmed, with outgrowth	2	1	0	No	0	North	unfavourable
H1A2	187	Shrubby hedgerow	2	1	Arable crop	Major road	0	100			2.5	2	5	5	5	Trimmed & dense	2.5	3	5	No	0.25	West	favourable
H1A2	188	Shrubby hedgerow	2	1	Arable crop	Major road	1	75			2	2	5	10	0	Trimmed & dense	2.5	3	10	No	0.25	West	unfavourable
H1A2	189	Shrubby hedgerow	2	1	Arable crop	Major road	1	150			2	2	0	0	0	Trimmed & dense	2.5	3	0	No	0.25	West	favourable
H1A2	190	Shrubby hedgerow	2	1	Arable crop	Minor road	0.5	150			1.5	1.5	5	5	0	Trimmed & dense	2.5	3	0	No	0.25	West	unfavourable
H1A3	191	Shrubby hedgerow	1	1	Arable crop	Arable crop	1.5	150			1.5	1.5	50	30	10	Trimmed & dense	4	3	0	No	0.25	East	unfavourable
H1A3	192	Shrubby hedgerow	1	1	Arable crop	Arable crop	1.5	150			1.5	1.5	30	15	5	Trimmed & dense	4	3	0	No	0.25	East	unfavourable
H1A4	194	Shrubby hedgerow	0	2	Arable crop	Arable crop	1.5	100			2	2	10	40	5	Trimmed & dense	2.5	2	10	No	0.25	East	unfavourable
H1A5	199	Shrubby hedgerow	1	1	Major road	Arable crop	0.5	150			1.5	1.5	5	0	0	Trimmed & dense	3	2	0	No	0.25	South	unfavourable
H1A5	200	Shrubby hedgerow	2	2	Minor road	Arable crop	0	100			2	2	20	5	0	Trimmed & dense	3	2	0	No	0.25	South	unfavourable
H1A6	197	Shrubby hedgerow	2	2	Arable crop	Major road	0.5	150			2	2	5	0	0	Trimmed & dense	3	3	0	No	0.25	South	favourable
H1A6	198	Shrubby hedgerow	2	2	Arable crop	Minor road	0.5	150			1.5	1.5	10	5	0	Trimmed & dense	3	3	0	No	0.25	South	unfavourable
H1A6a	195	Line of trees	2	2	Arable crop	Minor road	0	150		side A, wet	5	5	50	10	10	Tall & leggy	12	9	5	No	1.5	South	unfavourable
H1A6a	196	Line of trees	2	2	Arable crop	Major road	0	150		side A, wet	5	5	10	5	5	Tall & leggy	12	5	10	No	0.5	South	unfavourable
H1A7	193	Shrubby with line of trees	0	2	Arable crop	Arable crop	0	75		side A	1.5	1.5	5	5	0	Trimmed & dense	6	6	5	No	0.25	South	unfavourable
H1A8*	201	Shrubby with line of trees	2	2	Arable crop	Track (unsurfaced)	0.5	100		side A	6	6	40	10	10	Untrimmed	15	12	0	No	0.25	South	unfavourable
H1A8*	202	Shrubby with line of trees	2	2	Arable crop	Arable crop	0.5	100		side A	6	6	5	5	5	Untrimmed	15	12	0	No	0.25	South	favourable
H1A8*	203	Shrubby hedgerow	2	2	Arable crop	Track (unsurfaced)	0.5	100		side A	6	6	10	5	10	Untrimmed	15	15	0	No	0.25	South	unfavourable
H1A8*	204	Shrubby hedgerow	2	2	Arable crop	Arable crop	0.5	100			6	6	0	0	0	Untrimmed	15	15	5	No	0.25	South	favourable
H1A9*	205	Shrubby with line of trees	2	2	Arable crop		0	100		side B	7	7	5	0	0	Untrimmed	15	15	0	No	0.25	West	unfavourable

Hedgerow unit ID	Survey Unit ID	Hedge type	Number of connections		Adjacent landuse		Bank height side A (m)	Herb height side A	Fence	Ditch	Width of undisturbed bed	Width of herbaceous	Nettles (%)	Cleavers (%)	Docks (%)	Hedgerow w shape	Hedge height (m)	Hedge width (m)	Gaps (%)	Large gaps?	Canopy base height (m)	Orientation of Side A	Condition
			End 1	End 2	Side A	Side B																	
H1A9*	208	Shrubby hedgerow	2	2	Arable crop	Other	0	74	side A		6	6	5	0	0	Untrimmed	15	15	5	No	0.25	West	unfavourable
H1A9*	209	Line of trees	2	2	Arable crop		0	0			7	7	5	0	0	Untrimmed	15	15	10	No	0.25	West	unfavourable
H1B1	3	Shrubby hedgerow	1	1	Minor road	Semi-improved grassland	0.5	100		side A, dry	4	3	70	40	10	Trimmed & dense	4	3	5	No	0.5	North West	unfavourable
H1B1	4	Line of trees	1	1	Minor road	Semi-improved grassland	0.5	50		side B, wet	3	3	25	5	5	Untrimmed	12	10	5	No	0.5	North West	unfavourable
H1B10*	23	Shrubby with line of trees	2	2	Minor road	Arable crop	0.5	50			0.5	2.5	25	0	0	Trimmed & dense	4	2.5	0	No	0.25	South	unfavourable
H1B10*	24	Shrubby with line of trees	1	2	Minor road	Arable crop	0.5	25			1.5	2	15	10	5	Trimmed & dense	5	2.5	0	No	0.25	West	unfavourable
H1B10*	25	Shrubby with line of trees	2	2	Minor road	Arable crop	0.5	100			1.5	2	15	25	5	Trimmed & dense	4	2.5	0	No	0.25	West	unfavourable
H1B10*	26	Shrubby hedgerow	1	2	Minor road	Arable crop	0.5	50			1.5	1.5	10	5	5	Trimmed & dense	5	2.5	0	No	0.25	West	unfavourable
H1B11*	27	Shrubby hedgerow	2	2	Arable crop	Arable crop	0.5	100			1.5	1.5	15	10	0	Trimmed & dense	4	3	0	No	0.25	West	unfavourable
H1B11*	28	Shrubby hedgerow	2	2	Arable crop	Arable crop	0	100			1.5	1.5	55	10	5	Trimmed & dense	4	3	0	No	0.25	West	unfavourable
H1B11	29	Shrubby hedgerow	2	2	Arable crop	Arable crop	0.5	100			1.5	1.5	10	5	0	Trimmed & dense	4	3	10	No	0.25	West	unfavourable
H1B11*	30	Shrubby hedgerow	2	2	Arable crop	Arable crop	0	100			1.5	1.5	15	10	5	Trimmed & dense	5	3	0	No	0.25	West	unfavourable
H1B11*	31	Shrubby hedgerow	2	2	Arable crop	Arable crop	0.5	100			1.5	1.5	0	15	0	Trimmed & dense	4	3	0	No	0.25	West	unfavourable
H1B11*	32	Shrubby hedgerow	2	2	Arable crop	Arable crop	0.5	100			1.5	1.5	10	10	5	Trimmed & dense	5	3	0	No	0.25	West	unfavourable
H1B12*	33	Shrubby hedgerow	2	2	Arable crop	Arable crop	0.5	100			2.5	2.5	40	10	0	Trimmed & dense	6	3	0	No	0.25	East	unfavourable
H1B12*	34	Shrubby hedgerow	2	2	Arable crop	Arable crop	0.5	75			1.5	1.5	10	5	5	Trimmed & dense	5	2	5	No	0.25	East	unfavourable
H1B12*	35	Shrubby hedgerow	2	2	Arable crop	Arable crop	0.5	100			2.5	2.5	15	5	0	Trimmed & dense	5	2.5	10	No	0.25	East	unfavourable
H1B2	5	Shrubby hedgerow	1	2	Minor road	Arable crop	0.5	50			1.5	1.5	20	5	0	Trimmed & dense	7	6	5	No	0.25	South West	unfavourable
H1B2	6	Shrubby hedgerow	1	2	Minor road	Arable crop	0	45			0.5	0.5	15	5	5	Trimmed & dense	6	3	0	No	0.25	South West	unfavourable
H1B3*	7	Shrubby hedgerow	1	1	Minor road	Arable crop	0	100			1.5	1.5	25	5	0	Trimmed & dense	2.5	2	0	No	0.25	South	unfavourable
H1B3*	8	Shrubby hedgerow	1	1	Minor road	Arable crop	1.5	50			1.5	1.5	15	10	5	Trimmed & dense	3	3	0	No	0.25	South	unfavourable
H1B4*	9	Shrubby hedgerow	1	1	Minor road	Arable crop	0.5	100			1.5	1.5	25	15	0	Trimmed & dense	2.5	2.5	0	No	0.25	North	unfavourable
H1B4*	10	Shrubby hedgerow	1	1	Minor road	Arable crop	1.5	50			2	2	40	20	5	Trimmed & dense	2.5	2.5	0	No	0.25	North	unfavourable
H1B5	11	Line of trees	1	1	Track (unsurfaced)	Arable crop	0	0		internal, dry	1.5	2	50	10	5	Untrimmed	15	8	0	No	1.5	West	unfavourable
H1B5	12	Shrubby with line of trees	1	1	Track (unsurfaced)	Arable crop	0.5	100			1.5	1.5	70	15	0	Trimmed & dense	6	2.5	10	No	0.25	West	unfavourable
H1B6*	13	Shrubby hedgerow	2	2	Arable crop	Arable crop	0.5	100			7	7	10	0	0	Trimmed & dense	6	4	0	No	0.25	West	favourable
H1B6*	14	Shrubby hedgerow	2	2	Arable crop	Arable crop	0	100			8	8	25	0	5	Trimmed & dense	6	4	0	No	0.25	West	unfavourable
H1B6*	15	Shrubby hedgerow	2	2	Arable crop	Arable crop	0	100			7	7	15	5	0	Trimmed & dense	4	3	0	No	0.25	West	unfavourable
H1B7*	16	Shrubby hedgerow	1	2	Track (unsurfaced)	Arable crop	0.5	100			1.5	1.5	25	5	0	Trimmed & dense	3	3	0	No	0.25	South West	unfavourable
H1B7*	17	Shrubby hedgerow	1	2	Footpath	Arable crop	1.5	75			0.5	0.5	10	5	5	Trimmed & dense	2.5	2.5	0	No	0.25	South West	unfavourable

Hedgerow w unit ID	Survey Unit ID	Hedge type	Number of connections		Adjacent landuse		Bank height side A (m)	Herb height side A	Fence	Ditch	Width of undisturbed bed	Width of herbaceous	Nettles (%)	Cleavers (%)	Docks (%)	Hedgerow w shape	Hedge height (m)	Hedge width (m)	Gaps (%)	Large gaps?	Canopy base height (m)	Orientation of Side A	Condition
			End 1	End 2	Side A	Side B																	
H1B7*	18	Shrubby with line of trees	2	2	Track (unsurfaced)	Arable crop	1.5	100			1.5	1.5	10	0	0	Trimmed & dense	5	2	20	Yes	0.25	South West	unfavourable
H1B8	19	Shrubby with line of trees	1	1	Track (unsurfaced)	Other	0.5	50			0.5	0.5	60	0	0	Trimmed & dense	2.5	2	0	No	0.25	South	unfavourable
H1B8	20	Shrubby with line of trees	1	1	Track (unsurfaced)	Other	0	50			0.5	0.5	50	0	0	Trimmed & dense	5	2	10	Yes	0.25	South	unfavourable
H1B9	21	Shrubby hedgerow	0	1	Footpath	Improved grassland	0	50			0.5	0.5	0	0	0	Trimmed & dense	2.5	10	10	No	0.25	North	unfavourable
H1B9	22	Shrubby hedgerow	0	1	Footpath	Semi-improved grassland	0	50			0.5	0.5	0	0	0	Trimmed & dense	2.5	2	0	No	0.25	North	favourable
H1C1	36	Shrubby with line of trees	2	1	Arable crop	Arable crop	0.5	20			2.1	2	40	30	0	Trimmed & dense	5	2	10	No	0.25	South East	unfavourable
H1C1	37	Shrubby with line of trees	2	1	Arable crop	Arable crop	0.25	50			2.1	2	5	5	0	Trimmed & dense	5	1.5	5	No	0.25	South East	favourable
H1C1	38	Shrubby with line of trees	2	1	Arable crop	Arable crop	0	25			2.1	2	35	15	0	Trimmed & dense	5	1.5	5	No	0.25	South East	unfavourable
H1C10	56	Shrubby hedgerow	1	2	Arable crop	Arable crop	0.25	100			1.5	1.5	10	5	5	Trimmed & dense	2.25	2	5	No	0.25	West	unfavourable
H1C10	57	Shrubby hedgerow	2	1	Arable crop	Arable crop	0.25	75			0.5	0.5	30	10	0	Trimmed & dense	2.25	1.5	0	No	0.5	West	unfavourable
H1C10	58	Shrubby hedgerow	1	2	Arable crop	Arable crop	0.5	100			1.5	1.5	15	5	5	Trimmed & dense	2.5	2	5	No	0.25	West	unfavourable
H1C10	59	Shrubby hedgerow	2	1	Arable crop	Arable crop	0.25	100			0.5	0.5	50	25	0	Trimmed & dense	2.25	1.25	0	No	0.25	West	unfavourable
H1C11*	210	Shrubby with line of trees	1	1	Minor road	Arable crop	0.25	30			1.5	1	20	15	0	Trimmed & dense	2	1	0	No	0	West	unfavourable
H1C11*	211	Shrubby with line of trees	1	1	Minor road	Arable crop	1	75			1.5	1	5	5	5	Trimmed & dense	2	1	0	No	0	West	unfavourable
H1C11*	212	Shrubby with line of trees	1	1	Minor road	Arable crop	0.5	50			2	2	70	30	20	Trimmed & dense	2	1	0	No	0.25	North	unfavourable
H1C11*	213	Shrubby with line of trees	1	1	Minor road	Arable crop	0.25	50			1	1	60	20	0	Trimmed & dense	2	1	5	No	0	North	unfavourable
H1C11*	214	Shrubby hedgerow	1	1	Minor road	Arable crop	0.5	30			1.5	1	50	40	5	Trimmed & dense	1.75	1	5	No	0	North	unfavourable
H1C11*	215	Shrubby with line of trees	1	1	Minor road	Arable crop	0.5	100			1.5	1	15	10	5	Trimmed & dense	1.75	1	0	No	0.25	North	unfavourable
H1C11*	216	Shrubby with line of trees	1	1	Track (unsurfaced)	Arable crop	0.25	15			0	0	0	0	0	Trimmed & dense	2	1	0	No	0	East	unfavourable
H1C12*	60	Shrubby with line of trees	1	2	Minor road	Arable crop	0.25	100			1.5	1.5	40	40	0		5	2	15	No	0.25	South West	unfavourable
H1C12*	61	Shrubby hedgerow	1	1	Minor road	Arable crop	0.5	50			1.1	1.5	45	30	5	Trimmed & dense	2.5	2	0	No	0.25	South West	unfavourable
H1C12*	62	Shrubby hedgerow	2	1	Minor road	Arable crop	0.25	100			1.1	1.1	85	50	0	Trimmed & dense	2.5	1.5	10	No	0.25	South West	unfavourable
H1C12*	63	Shrubby hedgerow	2	1	Minor road	Arable crop	0.25	75			1.1	1.1	10	0	0	Trimmed & dense	2.5	1.5	0	No	0.25	South West	unfavourable
H1C13*	219	Shrubby with line of trees	2	1	Arable crop	Arable crop	0.25	150			2	2	50	15	0	Untrimmed	7	2	5	No	0	North	unfavourable
H1C13*	220	Shrubby with line of trees	2	1	Arable crop	Arable crop	0	75			0.5	0.5	20	40	5	Untrimmed	4	2	0	No	0.25	North	unfavourable
H1C14	217	Shrubby with line of trees	1	1	Improved grassland	Arable crop	0	150		internal, dry	1.5	1.5	70	70	0	Trimmed & dense	2.5	3	0	No	0.5	East	unfavourable
H1C14	218	Shrubby with line of trees	1	1	Improved grassland	Arable crop	0	150			3	2	40	75	0	Trimmed & dense	6	3	0	No	1	North	unfavourable
H1C15	223	Shrubby hedgerow	0	0	Minor road	Arable crop	0.5	30			0.5	0.5	5	15	0	Trimmed & dense	2	1	0	No	0	West	unfavourable
H1C16	226	Shrubby with line of trees	1	1	Minor road	Arable crop	1	30			1	1	5	5	5	Trimmed & dense	1.75	1	0	No	0	North	unfavourable

Hedgerow unit ID	Survey Unit ID	Hedge type	Number of connections		Adjacent landuse		Bank height side A (m)	Herb height side A	Fence	Ditch	Width of undisturbed bed	Width of herbaceous	Nettles (%)	Cleavers (%)	Docks (%)	Hedgerow shape	Hedge height (m)	Hedge width (m)	Gaps (%)	Large gaps?	Canopy base height (m)	Orientation of Side A	Condition
			End 1	End 2	Side A	Side B																	
H1C17	224	Shrubby with line of trees	1	1	Minor road	Arable crop	0.75	30			0.5	0.5	5	5	0	Trimmed & dense	3	1	10	Yes	0	South	unfavourable
H1C17	225	Shrubby with line of trees	1	1	Minor road	Arable crop	0.5	30			1	1	5	15	0	Trimmed & dense	2	1	0	No	0	South	unfavourable
H1C18	221	Shrubby with line of trees	0	1	Arable crop	Minor road	0	150			1.5	1.5	5	10	0	Trimmed & dense	2	1	0	No	0.25	East	unfavourable
H1C18	222	Shrubby with line of trees	0	1	Arable crop	Minor road	0	100			5	5	45	45	0	Trimmed & dense	2	1	0	No	0.25	East	unfavourable
H1C19	236	Shrubby hedgerow	2	1	Minor road	Arable crop	0.25	75		side A, dry	1	1	45	60	0	Trimmed & dense	3	1	0	No	0	North	unfavourable
H1C19	237	Shrubby hedgerow	2	1	Minor road	Arable crop	0.5	50			0.5	0.3	40	10	5	Trimmed & dense	2.5	1	10	Yes	0.5	North	unfavourable
H1C19	238	Shrubby with line of trees	2	1	Minor road	Arable crop	0.5	100		side A	1	1	45	30	5	Trimmed & dense	2.5	1	10	No	0.5	North	unfavourable
H1C19	239	Shrubby hedgerow	2	1	Minor road	Arable crop	0.75	30			0.3	0.2	5	20	0	Trimmed & dense	2.5	1	0	No	0.25	North	unfavourable
H1C19	240	Shrubby with line of trees	2	1	Minor road	Arable crop	0.25	50			1	1	5	10	0	Trimmed & dense	3	1	5	No	0.25	North	unfavourable
H1C2	41	Shrubby hedgerow	2	2	Arable crop	Arable crop	1.5	150			3	3	90	15	5	Untrimmed	4	2.5	25	Yes	0.25	North West	unfavourable
H1C2	42	Shrubby hedgerow	2	2	Arable crop	Arable crop	1.5	100			2.5	2.5	90	50	0	Untrimmed	4	4	40	Yes	0.5	North West	unfavourable
H1C2	43	Shrubby hedgerow	2	2	Arable crop	Arable crop	1.5	75			2.1	2	90	15	5	Trimmed & dense	3	2.5	35	Yes	0.25	North West	unfavourable
H1C2	44	Shrubby hedgerow	2	2	Arable crop	Arable crop	0.25	100			2.1	2	90	50	0	Trimmed & dense	6	2	35	Yes	0.5	North West	unfavourable
H1C20*	241	Shrubby hedgerow	2	2	Minor road	Arable crop	0.25	100		side B, dry	1	0.5	5	15	0	Trimmed & dense	2	1	5	No	0	North	unfavourable
H1C20*	242	Shrubby with line of trees	2	2	Minor road	Arable crop	0.25	100		side B, dry	1	1	15	5	0	Trimmed & dense	1.75	1	0	No	0	North	unfavourable
H1C21	227	Shrubby hedgerow	1	1	Minor road	Arable crop	0.5	75		side B, dry	2	2	5	0	0	Trimmed & dense	2	1	5	No	0.25	East	unfavourable
H1C21	228	Shrubby hedgerow	1	1	Minor road	Arable crop	0.25	75		side B, dry	3	3	20	10	10	Tall & leggy	2	1	0	No	0.25	East	unfavourable
H1C21	229	Shrubby hedgerow	1	1	Minor road	Arable crop	0.25	30		side B, wet	2	2	10	10	10	Trimmed & dense	1.5	1	0	No	0.25	South	unfavourable
H1C21	230	Shrubby hedgerow	1	1	Minor road	Arable crop	0.25	45		side B, dry	1	1	15	30	0	Trimmed & dense	1.75	1	0	No	0.25	South	unfavourable
H1C21	231	Shrubby hedgerow	1	1	Minor road	Arable crop	0.25	30		side B, dry	0.5	0.5	10	40	10	Trimmed & dense	1.5	1	0	No	0	South	unfavourable
H1C21	232	Shrubby hedgerow	1	1	Minor road	Arable crop	0.25	100		side B, dry	1	1	70	40	5	Trimmed & dense	2.25	1	0	No	0.25	South	unfavourable
H1C22	243	Shrubby hedgerow	2	2	Arable crop	Arable crop	0	150			6	6	25	5	10	Trimmed & dense	3	1	5	No	0.5	North	unfavourable
H1C22	244	Shrubby hedgerow	2	2	Arable crop	Arable crop	0	150			6	6	5	15	0	Trimmed & dense	3	1	0	No	0.5	North	unfavourable
H1C22	245	Shrubby hedgerow	2	2	Arable crop	Arable crop	0	150			5	5	10	10	5	Trimmed & dense	3	1	0	No	0.25	North	unfavourable
H1C23	246	Shrubby with line of trees	2	1	Minor road	Arable crop	0	25			1.5	1	5	10	0	Trimmed & dense	2	1	0	No	0.25	North	unfavourable
H1C23	247	Shrubby with line of trees	2	1	Minor road	Arable crop	0	25			1	1	5	20	0	Trimmed & dense	1.75	1	0	No	0.25	North	unfavourable

Hedgerow unit ID	Survey Unit ID	Hedge type	Number of connections		Adjacent landuse		Bank height side A (m)	Herb height side A	Fence	Ditch	Width of undisturbed bed	Width of herbaceous	Nettles (%)	Cleavers (%)	Docks (%)	Hedgerow shape	Hedge height (m)	Hedge width (m)	Gaps (%)	Large gaps?	Canopy base height (m)	Orientation of Side A	Condition
			End 1	End 2	Side A	Side B																	
H1C24	260	Shrubby with line of trees	2	1	Arable crop	Arable crop	0	75		side B, dry	5	5	0	0	5	Trimmed & dense	2	0.5	0	No	0.25	North	unfavourable
H1C25	248	Shrubby with line of trees	2	2	Arable crop	Arable crop	0	75			4	4	5	0	5	Trimmed & dense	3.5	1.5	0	No	0.25	East	favourable
H1C25	249	Shrubby with line of trees	2	2	Arable crop	Arable crop	0	100			4	4	10	15	10	Trimmed & dense	3	1.5	0	No	0.25	East	unfavourable
H1C25	250	Shrubby with line of trees	2	2	Arable crop	Arable crop	0	100			4	4	5	15	10	Trimmed & dense	3	1.5	0	No	0.25	East	unfavourable
H1C26	283	Line of trees	1	1	Track (unsurfaced)	Arable crop	0.25	15			1	0.5	10	5	0	Tall & leggy	8	2	0	No	1	East	unfavourable
H1C26	284	Line of trees	1	1	Track (unsurfaced)	Arable crop	0.5	30			1	1	10	0	0	Tall & leggy	8	2	0	No	1	East	unfavourable
H1C26	285	Line of trees	1	1	Track (unsurfaced)	Improved grassland	0.25	30		side B	1	1	25	0	5	Tall & leggy	8	1	20	Yes	1	East	unfavourable
H1C26	286	Line of trees	1	1	Track (unsurfaced)	Improved grassland	0.5	50		side B	1	1	50	0	0	Tall & leggy	8	4	5	No	2	West	unfavourable
H1C26	287	Line of trees	1	1	Track (unsurfaced)	Improved grassland	0.25	15		side B	0.5	0.5	0	0	0	Tall & leggy	8	4	0	No	1	West	unfavourable
H1C27	251	Shrubby with line of trees	2	2	Arable crop	Arable crop	0	30			5	5	20	20	5	Trimmed & dense	3	1	0	No	0.5	North	unfavourable
H1C27	252	Shrubby with line of trees	2	2	Arable crop	Arable crop	0	75			4	4	15	0	5	Trimmed & dense	3	1	0	No	0	North	unfavourable
H1C28	253	Line of trees	1	2	Track (unsurfaced)	Arable crop	0	30			1	1	60	0	20	Tall & leggy	6	2	0	No	4	East	unfavourable
H1C28	254	Line of trees	2	1	Track (unsurfaced)	Arable crop	0.5	10			1	0.5	30	0	0	Tall & leggy	6	2	5	No	4	East	unfavourable
H1C28	255	Line of trees	2	1	Track (unsurfaced)	Arable crop	0.5	30			1.5	1.5	30	0	5	Tall & leggy	6	2	0	No	4	East	unfavourable
H1C28	256	Line of trees	2	1	Track (unsurfaced)	Arable crop	0	100		side B, dry	0.5	0.5	40	0	0	Tall & leggy	6	2	0	No	1	East	unfavourable
H1C28	257	Line of trees	2	1	Track (unsurfaced)	Arable crop	0	75		side A, dry	0.5	0.5	60	5	0	Tall & leggy	5	2	10	No	1	East	unfavourable
H1C28	258	Line of trees	2	1	Track (unsurfaced)	Arable crop	0	25		side A, dry	1	0.5	5	0	0	Tall & leggy	7	2	0	No	1	East	unfavourable
H1C28	259	Line of trees	2	1	Track (unsurfaced)	Arable crop	0	30			1.5	0.5	0	0	0	Tall & leggy	7	2	5	No	1	East	unfavourable
H1C29*	233	Shrubby hedgerow	2	1	Minor road	Arable crop	0.25	30		side A	0.5	0.5	20	10	15	Trimmed & dense	2	1	0	No	0.5	South	unfavourable
H1C29*	234	Shrubby hedgerow	2	1	Minor road	Arable crop	0.25	30			0.5	0.5	50	50	5	Trimmed & dense	2	1	0	No	0	South	unfavourable
H1C29*	235	Shrubby with line of trees	2	1	Minor road	Arable crop	0.25	45			0.5	0.5	40	10	5	Trimmed & dense	1.5	1	5	No	0.25	South	unfavourable
H1C3	45	Shrubby hedgerow	2	1	Arable crop	Arable crop	1.5	75			3	3	90	50	5	Trimmed & dense	4	2.5	25	Yes	0.25	South West	unfavourable
H1C4	39	Shrubby hedgerow	2	1	Major road	Arable crop	1.5	50			0.5	0.5	15	5	0	Trimmed & dense	4	2.5	15	No	0.25	South West	unfavourable
H1C4	40	Shrubby hedgerow	2	1	Major road	Arable crop	1.5	100			1.5	1.5	25	10	0	Trimmed & dense	2.25	1.25	25	No	0.25	South West	unfavourable
H1C5*	46	Shrubby with line of trees	1	2	Arable crop	Other	1.5	100			2.5	2.5	90	40	0	Trimmed & dense	8	2.5	0	No	0.5	West	unfavourable
H1C5*	47	Shrubby with line of trees	2	1	Arable crop	Arable crop	0.25	75			1.5	1.5	75	30	5	Trimmed & dense	6	3	0	No	0.25	North West	unfavourable
H1C6	48	Shrubby with line of trees	1	1	Minor road	Semi-improved grassland	0	50			1.5	1.5	55	35	5	Trimmed & dense	6	4	5	No	0.25	West	unfavourable

Hedgerow unit ID	Survey Unit ID	Hedge type	Number of connections		Adjacent landuse		Bank height side A (m)	Herb height side A	Fence	Ditch	Width of undisturbed bed	Width of herbaceous	Nettles (%)	Cleavers (%)	Docks (%)	Hedgerow shape	Hedge height (m)	Hedge width (m)	Gaps (%)	Large gaps?	Canopy base height (m)	Orientation of Side A	Condition
			End 1	End 2	Side A	Side B																	
H1C7	49	Shrubby with line of trees	3	1	Minor road	Improved grassland	0.25	50		internal, dry	0.5	0.5	60	20	0	Trimmed & dense	8	2.5	5	No	0.25	North	unfavourable
H1C7	50	Shrubby with line of trees	1	2	Minor road	Arable crop	0.5	100		internal, dry	3	3	40	10	5	Tall & leggy	8	4	5	No	0.25	North	unfavourable
H1C8	55	Shrubby with line of trees	2	1	Arable crop	Arable crop	0.5	100			0.5	0.5	60	15	10	Trimmed & dense	6	2.5	25	Yes	0.25	South West	unfavourable
H1C9	51	Shrubby with line of trees	2	2	Minor road	Arable crop	0.5	50			1.1	1.5	70	15	0	Trimmed & dense	3	2	5	No	0.25	North West	unfavourable
H1C9	52	Shrubby hedgerow	2	2	Arable crop	Arable crop	0	75			10	10	95	60	10	Trimmed & dense	6	2.5	5	No	0.25	North East	unfavourable
H1C9	53	Shrubby with line of trees	2	2	Uncropped margin	Arable crop	1.5	100			10	10	90	40	0	Trimmed & dense	4	2	5	No	0.25	South West	unfavourable
H1C9	54	Shrubby hedgerow	2	2	Arable crop	Arable crop	0	100			5	5	10	5	5	Trimmed & dense	5	2	0	No	0.25	North West	unfavourable
H1D2	183	Shrubby with line of trees	0	0	Semi-improved grassland		0	0	side A		0	1.5	60	40	15	Untrimmed	6	4	0	No	1.5	South	unfavourable
H1D2	184	Shrubby with line of trees	0	1	Semi-improved grassland		0.5	50	side A		0	1.5	10	5	5	Untrimmed	5	5	10	No	1.7	South	unfavourable
H1D6*	282	Line of trees	2	1	Minor road	Arable crop	0	75		internal, dry	3	3	40	10	5	Tall & leggy	0	0	80	Yes	0	East	
H1D7*	278	Shrubby with line of trees	2	1	Arable crop	Arable crop	0	30	side A		1	1	0	0	5	Untrimmed, with outgrowth	3	2	0	No	0.5	North East	unfavourable
H1D7*	279	Shrubby with line of trees	2	1	Arable crop	Arable crop	0	100	side A		1	1	20	10	0	Untrimmed	3	2	0	No	0.5	North East	unfavourable
H1D7*	280	Shrubby with line of trees	2	1	Arable crop	Arable crop	0	100	side A		0.5	0.5	0	20	0	Untrimmed, with outgrowth	3	2	0	No	0.5	North East	unfavourable
H1D7*	281	Shrubby with line of trees	2	1	Arable crop	Arable crop	0	75	side A		2	2	10	20	5	Untrimmed, with outgrowth	5	2	0	No	0.5	North East	unfavourable
H1E1*	274	Shrubby hedgerow	0	1	Track (unsurfaced)	Arable crop	0	0	side B		0.5	0.5	30	15	0	Tall & leggy	6	2	0	No	0	South	unfavourable
H1E11*	290	Shrubby hedgerow	1	1	Major road	Arable crop	0	75			1	1	5	0	0	Untrimmed, with outgrowth	3.5	2	30	Yes	0.25	South	unfavourable
H1E11*	291	Shrubby hedgerow	1	1	Major road	Arable crop	0.5	50			2	1	0	0	0	Tall & leggy	4	2	0	No	0.5	South	unfavourable
H1E2*	275	Shrubby hedgerow	1	1	Improved grassland	Semi-mature woodland	0	15	both sides		0.5	0.5	20	0	0	Recently laid	5	1.5	70	Yes	1	North	unfavourable
H1E2*	276	Shrubby hedgerow	1	1	Semi-mature woodland	Improved grassland	0.25	30	side A		0.5	0.5	15	5	5	Recently laid	3	1	50	Yes	0	North	unfavourable
H1E2*	277	Shrubby hedgerow	1	1	Semi-mature woodland	Improved grassland	0.25	15	both sides		0.5	0.5	20	10	0	Recently laid	2	1	30	Yes	0.5	North	unfavourable
H1E3*	269	Shrubby with line of trees	2	2	Track (unsurfaced)	Improved grassland	0	30			1	1	10	15	0	Trimmed & dense	2	1	0	No	0.5	South West	unfavourable
H1E3*	270	Shrubby with line of trees	2	2	Track (unsurfaced)	Improved grassland	0.25	100	side B		1.5	1.5	45	35	10	Trimmed & dense	2	1	5	No	0.5	South West	unfavourable
H1E3*	271	Shrubby with line of trees	2	1	Track (unsurfaced)	Improved grassland	0.25	75			1	0.5	20	5	0	Recently laid	2	1	10	No	0.5	South West	unfavourable

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			End 1	End 2	Side A	Side B																	
H1E3*	272	Shrubby with line of trees	2	1	Track (unsurfaced)	Improved grassland	0.5	100			0	0	80	60	0	Trimmed & dense	2.5	1.5	0	No	0.5	South West	unfavourable
H1E4*	273	Shrubby with line of trees	2	2	Improved grassland	Improved grassland	0.5	100	side B		1.5	1.5	25	5	5	Trimmed & dense	2	1	15	No	0.5	North West	unfavourable
H1E5	265	Shrubby with line of trees	1	1	Arable crop	Arable crop	0.25	75			3	2	60	5	5	Untrimmed	6	1.5	5	No	0.5	North East	unfavourable
H1E5	266	Shrubby with line of trees	1	1	Arable crop	Arable crop	0.25	130			0.2	0.2	70	10	5	Trimmed & dense	6	1.5	15	No	0.5	North East	unfavourable
H1E6	267	Shrubby hedgerow	2	2	Arable crop	Other	0.5	30			0.5	0.5	5	30	0	Trimmed & dense	2	1	0	No	0.5	South West	unfavourable
H1E6	268	Shrubby hedgerow	2	2	Arable crop	Other	0.25	45			0.5	0.5	30	50	0	Trimmed & dense	2	1	0	No	0.25	South West	unfavourable
H1E7*	263	Shrubby with line of trees	0	1	Minor road	Arable crop	0.5	30			0.5	0.5	10	0	5	Trimmed & dense	4	1.5	0	No	0	South East	unfavourable
H1E7*	264	Shrubby with line of trees	0	1	Minor road	Arable crop	0.5	15			0.5	0.3	5	0	0	Trimmed & dense	4	1.5	0	No	0	South East	unfavourable
H1E8*	261	Shrubby hedgerow	2	1	Minor road	Arable crop	0	45			0.3	0.3	0	0	0	Trimmed & dense	2.5	1	5	No	0.25	West	unfavourable
H1E8*	262	Shrubby hedgerow	2	1	Minor road	Arable crop	0.25	45	side B		1	1	5	0	0	Trimmed & dense	2.5	1	0	No	0.25	West	unfavourable
H1F1*	292	Shrubby hedgerow	1	1	Minor road	Arable crop	0	25			0.5	0.5	0	5	0	Trimmed & dense	2	1.5	0	No	0.5	North West	unfavourable
H1F1*	293	Shrubby hedgerow	1	1	Minor road	Arable crop	0.25	45			0.5	0.5	0	0	0	Trimmed & dense	2	1.5	0	No	0.25	North West	unfavourable
H1F1*	294	Shrubby hedgerow	1	1	Minor road	Arable crop	0.25	30			0.5	0.5	0	0	0	Trimmed & dense	2	1.5	0	No	0.25	North West	unfavourable
H1F10	166	Shrubby with line of trees	3	2	Semi-improved grassland	Arable crop	0	150	side A		0	0	80	20	5	Trimmed & dense	15	6	0	No	0.5	East	unfavourable
H1F10	167	Shrubby hedgerow	3	2	Semi-improved grassland	Arable crop	0.25	100	both sides		5	4	75	40	10	Untrimmed	10	4	0	No	1	East	unfavourable
H1F10	168	Shrubby with line of trees	3	2	Semi-improved grassland	Arable crop	0	25	side A		0	1.5	60	15	0	Trimmed & dense	10	2.5	0	No	0.75	East	unfavourable
H1F10	169	Shrubby with line of trees	3	2	Semi-improved grassland	Arable crop	0	100	both sides		5	5	70	45	20	Untrimmed	8	4	0	No	0.5	East	unfavourable
H1F11	139	Shrubby hedgerow	1	1	Minor road	Arable crop	0.25	100			1	2	90	15	0	Trimmed & dense	2.5	1.5	0	No	0.25	East	unfavourable
H1F11	140	Shrubby hedgerow	1	2	Minor road	Arable crop	0.25	25			1	1	40	20	0	Trimmed & dense	4	4	0	No	0	East	unfavourable
H1F11	141	Shrubby hedgerow	1	1	Minor road	Arable crop	0.5	100			0.5	0.5	70	50	0	Trimmed & dense	2	1.5	0	No	0.25	East	unfavourable
H1F12	142	Shrubby with line of trees	1	2	Minor road	Arable crop	0.25	75	side B, wet		2	2	10	10	0	Trimmed & dense	2.5	1.5	0	No	0.25	West	unfavourable
H1F12	143	Shrubby with line of trees	1	2	Minor road	Arable crop	0.25	150	side A, dry		3	3	50	20	5	Trimmed & dense	4	1.5	0	No	0.5	West	unfavourable
H1F12	144	Shrubby with line of trees	1	2	Minor road	Arable crop	1	75	side A, dry		5	5	30	40	5	Trimmed & dense	12	4	5	No	1.5	West	unfavourable
H1F12	145	Shrubby with line of trees	1	2	Minor road	Arable crop	0	100	side A, dry		2	2	50	25	0	Trimmed & dense	12	8	10	No	0.25	West	unfavourable
H1F12	146	Shrubby with line of trees	1	2	Minor road	Arable crop	0	50			2.5	2.5	5	10	10	Trimmed & dense	3.5	1.5	0	No	0	South	unfavourable
H1F12	147	Shrubby with line of trees	1	2	Minor road	Arable crop	0.25	50	side B, dry		0.5	2.5	5	5	0	Trimmed & dense	4	1.5	0	No	0.25	South	unfavourable

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			End 1	End 2	Side A	Side B																	
H1F13	138	Shrubby hedgerow	1	2	Minor road	Arable crop	0.5	100			1.5	2.5	40	30	5	Trimmed & dense	2.5	1.5	0	No	1	East	unfavourable
H1F14	137	Shrubby with line of trees	2	1	Arable crop	Other	0	150			2	1.5	60	20	0	Trimmed & dense	4	3	0	No	0.25	North	unfavourable
H1F14	148	Shrubby with line of trees	1	2	Arable crop	Minor road	0.25	75			3	3	10	30	0	Trimmed & dense	3	1.5	0	No	0.25	East	unfavourable
H1F14	149	Shrubby with line of trees	2	2	Arable crop	Arable crop	0.25	150			1	1	40	20	0	Trimmed & dense	5	2.5	0	No	0.5	North	unfavourable
H1F14	150	Shrubby with line of trees	2	2	Arable crop	Improved grassland	0	50			1	1	35	35	10	Trimmed & dense	15	6	10	No	0.5	North	unfavourable
H1F15	151	Shrubby with line of trees	2	2	Arable crop	Arable crop	0	150			2	2	5	20	0	Trimmed & dense	5	3	0	No	1	South	unfavourable
H1F15	152	Shrubby with line of trees	2	2	Arable crop	Arable crop	0	50			2	1.5	0	5	5	Untrimmed	12	6	0	No	0.75	South	unfavourable
H1F15	153	Shrubby with line of trees	2	2	Arable crop	Arable crop	0	150			1.5	1.5	75	15	10	Trimmed & dense	4	2.5	0	No	0.25	West	unfavourable
H1F15	154	Shrubby with line of trees	2	2	Arable crop	Other	0	75			4	4	50	30	10	Untrimmed	5	1.5	0	No	0.25	West	unfavourable
H1F15	155	Shrubby with line of trees	2	2	Arable crop	Minor road	0	150		side A, dry	4	4	50	10	0	Trimmed & dense	3	1.5	0	No	0.5	North	unfavourable
H1F15	156	Shrubby with line of trees	2	2	Arable crop	Minor road	0	150		side A, dry	4	4	50	10	0	Trimmed & dense	3	1.5	0	No	0.5	North	unfavourable
H1F15	157	Shrubby with line of trees	2	2	Arable crop	Minor road	0	150		side A, dry	4	4	50	10	0	Trimmed & dense	3	1.5	0	No	0.5	North	unfavourable
H1F15	158	Shrubby with line of trees	2	2	Arable crop	Minor road	0.25	100		side A, dry	4	4	75	65	5	Trimmed & dense	4	1.5	0	No	0.25	North	unfavourable
H1F15	159	Shrubby with line of trees	2	2	Arable crop	Other	0	150			4	4	65	30	5	Trimmed & dense	8	1.5	0	No	0.25	East	unfavourable
H1F15	160	Shrubby with line of trees	2	2	Arable crop	Improved grassland	0	75			3	3	0	5	0	Untrimmed	5	3	0	No	0	East	favourable
H1F16*	130	Shrubby hedgerow	1	1	Minor road	Arable crop	0.25	100			1	1	50	20	5	Trimmed & dense	3	2.5	0	No	0.5	North	unfavourable
H1F16*	131	Shrubby hedgerow	1	1	Minor road	Arable crop	0	45			1	1	15	15	0	Trimmed & dense	4	3	0	No	0.5	North	unfavourable
H1F16*	132	Shrubby hedgerow	1	1	Minor road	Arable crop	0	100			1	1	50	20	0	Trimmed & dense	2	1.5	0	No	0.25	North	unfavourable
H1F16*	133	Shrubby hedgerow	1	1	Minor road	Arable crop	0.25	75			2	2	40	15	0	Trimmed & dense	3	1.5	0	No	0.25	North	unfavourable
H1F16*	134	Shrubby hedgerow	1	1	Minor road	Arable crop	0	25		side B, dry	2	2	20	5	0	Trimmed & dense	4	1.5	15	No	0.75	North	unfavourable
H1F16*	135	Shrubby hedgerow	1	1	Minor road	Arable crop	0.25	50			1.5	1.5	70	70	5	Trimmed & dense	3	2.5	0	No	0.75	North	unfavourable
H1F16*	136	Shrubby hedgerow	1	1	Minor road	Arable crop	1	100			2	2	40	15	0	Trimmed & dense	5	2.5	10	No	0.5	North	unfavourable
H1F17*	128	Shrubby hedgerow	2	2	Arable crop	Improved grassland	1.5	150		side A, dry	4	4	75	25	5	Trimmed & dense	6	2.5	0	No	0.5	North	unfavourable
H1F17*	129	Shrubby hedgerow	2	2	Arable crop	Improved grassland	1.5	100		side A, dry	5	4	90	90	15	Trimmed & dense	6	4	0	No	0	South	unfavourable
H1F18	127	Shrubby with line of trees	2	2	Semi-improved grassland	Improved grassland	0.5	20			10	10	80	40	10	Trimmed & dense	10	4	0	No	0.25	West	unfavourable
H1F19*	125	Shrubby with line of trees	1	2	Minor road	Improved grassland	0	50	side A		1.5	1.5	60	15	5	Trimmed & dense	10	1.25	5	No	1	North	unfavourable

Hedgerow unit ID	Survey Unit ID	Hedge type	Number of connections		Adjacent landuse		Bank height side A (m)	Herb height side A	Fence	Ditch	Width of undisturbed bed	Width of herbaceous	Nettles (%)	Cleavers (%)	Docks (%)	Hedgerow shape	Hedge height (m)	Hedge width (m)	Gaps (%)	Large gaps?	Canopy base height (m)	Orientation of Side A	Condition
			End 1	End 2	Side A	Side B																	
H1F19*	126	Shrubby with line of trees	1	2	Minor road	Improved grassland	0	50			2	2	15	5	0	Trimmed & dense	2.5	1	0	No	0	North	unfavourable
H1F20*	122	Shrubby hedgerow	1	2	Arable crop	Arable crop	0.5	100			2	2	10	10	0	Trimmed & dense	6	1.5	0	No	0.25	West	unfavourable
H1F20*	123	Shrubby with line of trees	2	1	Arable crop	Other	0.25	100			1	1	0	20	5	Trimmed & dense	8	2	0	No	0	South West	unfavourable
H1F21	124	Shrubby hedgerow	1	1	Minor road	Semi-improved grassland	1.5	50			0.5	0.5	40	10	0	Untrimmed	6	4	0	No	0.25	West	unfavourable
H1F22*	120	Line of trees	1	2	Arable crop	Arable crop	1	150		side A, dry	2	2	65	40	0	Trimmed & dense	8	5	30	Yes	0.25	West	unfavourable
H1F22*	121	Line of trees	1	2	Arable crop	Arable crop	0.5	150		side A, dry	3	3	70	20	5	Tall & leggy	15	10	20	No	0.25	West	unfavourable
H1F23*	111	Shrubby hedgerow	1	1	Major road	Young woodland	1	100			0.25	0.25	20	15	5	Trimmed & dense	12	5	0	No	0	South	unfavourable
H1F23*	112	Shrubby hedgerow	1	1	Major road	Young woodland	0.5	50			0.25	0.25	10	0	0	Trimmed & dense	12	3	0	No	0	South	unfavourable
H1F23*	113	Shrubby hedgerow	1	1	Major road	Young woodland	1	50			1.5	1.5	5	5	0	Trimmed & dense	12	5	0	No	0.25	South	unfavourable
H1F23*	114	Shrubby hedgerow	1	1	Major road	Young woodland	0.25	75			1.5	1	35	0	0	Trimmed & dense	12	5	10	No	1	South	unfavourable
H1F24*	116	Shrubby with line of trees	3	1	Semi-improved grassland	Improved grassland	0	100	side B	internal, wet	5	1.5	80	10	15	Untrimmed	15	8	10	No	0	North	unfavourable
H1F25*	115	Shrubby with line of trees	3	2	Uncropped margin	Arable crop	0	100			10	10	90	50	5	Untrimmed	8	8	25	No	0.5	North	unfavourable
H1F26*	117	Shrubby with line of trees	1	1	Improved grassland	Arable crop	0.5	100	side A		1	1	90	50	0	Trimmed & dense	4	2	10	No	0	North	unfavourable
H1F27*	118	Shrubby hedgerow	3	2	Arable crop	Arable crop	0.25	150			1	1	90	10	0	Trimmed & dense	6	4	0	No	0	West	unfavourable
H1F27*	119	Shrubby with line of trees	3	2	Arable crop	Arable crop	0.5	150			2	2	90	40	10	Trimmed & dense	4	2	0	No	0.5	West	unfavourable
H1F28	295	Shrubby hedgerow	1	2	Arable crop	Improved grassland	0	75	both sides		2	1.5	80	20	0	Untrimmed	4	4	0	No	1	North	unfavourable
H1F29*	296	Shrubby with line of trees	1	2	Arable crop	Arable crop	0.5	100	side B		1.5	1.5	0	0	0	Trimmed & dense	4	4.5	0	No	0.5	West	unfavourable
H1F29*	297	Shrubby with line of trees	2	1	Arable crop	Arable crop	0.5	100		side B, dry	2	1.5	10	20	0	Trimmed & dense	3.5	2	0	No	1	West	unfavourable
H1F3*	177	Shrubby hedgerow	2	2	Minor road	Arable crop	1	25			0.5	0.5	0	10	0	Trimmed & dense	2.5	1	0	No	0	South	unfavourable
H1F3*	178	Shrubby hedgerow	2	2	Minor road	Arable crop	1	100			1	1	20	10	5	Trimmed & dense	2.5	1.25	5	No	0.25	South	unfavourable
H1F3*	179	Shrubby hedgerow	2	2	Minor road	Arable crop	1	75			0.5	0.5	10	5	0	Trimmed & dense	2.5	1.25	10	No	0	South	unfavourable
H1F3*	180	Shrubby hedgerow	2	2	Minor road	Arable crop	1	150			1	2	50	10	5	Trimmed & dense	2.5	1.25	60	Yes	1	South	unfavourable
H1F3*	181	Shrubby hedgerow	2	2	Minor road	Young woodland	0.5	75			0.5	0.5	45	10	5	Trimmed & dense	4	3	5	No	0.5	South	unfavourable
H1F30*	298	Shrubby with line of trees	2	2	Arable crop	Arable crop	0	150		internal, dry	3	1	30	0	0	Trimmed & dense	2.5	2	0	No	0.25	West	unfavourable
H1F30*	299	Shrubby hedgerow	1	2	Arable crop	Arable crop	0.5	100		internal, dry	3	1.5	60	5	0	Trimmed & dense	2.5	2.5	0	No	0.25	West	unfavourable
H1F30*	300	Shrubby with line of trees	1	2	Arable crop	Arable crop	0.5	75	side B	side A, dry	2.5	1	40	20	0	Trimmed & dense	6	5	0	No	0.5	North	unfavourable

Hedgerow unit ID	Survey Unit ID	Hedge type	Number of connections		Adjacent landuse		Bank height side A (m)	Herb height side A	Fence	Ditch	Width of undisturbed bed	Width of herbaceous	Nettles (%)	Cleavers (%)	Docks (%)	Hedgerow shape	Hedge height (m)	Hedge width (m)	Gaps (%)	Large gaps?	Canopy base height (m)	Orientation of Side A	Condition
			End 1	End 2	Side A	Side B																	
H1F31*	301	Shrubby hedgerow	2	2	Arable crop;Semi-improved grassland	Arable crop;Semi-improved grassland	0.5	75		side A, dry	1	1	20	0	0	Untrimmed, with outgrowth	4	4.5	0	No	1	West	unfavourable
H1F31*	302	Shrubby hedgerow	2	2	Semi-improved grassland	Semi-improved grassland	1	100		side A, dry	0.5	0.5	20	0	0	Untrimmed, with outgrowth	4	2	0	No	0.5	West	unfavourable
H1F4*	172	Shrubby hedgerow	2	2	Minor road	Semi-improved grassland	0	50			1	1	60	40	5	Trimmed & dense	2.5	1.25	0	No	0.5	North	unfavourable
H1F4*	173	Shrubby hedgerow	2	2	Minor road	Improved grassland	0.25	50			0.5	0.5	20	15	0	Trimmed & dense	2	1	0	No	0.5	North	unfavourable
H1F4*	174	Shrubby hedgerow	2	2	Minor road	Semi-improved grassland	0	100			1	1	25	10	0	Trimmed & dense	3	1.25	0	No	0.5	North	unfavourable
H1F4*	175	Shrubby hedgerow	2	2	Minor road	Improved grassland	0	75			1	1	40	30	0	Trimmed & dense	2.5	1.25	0	No	0.75	North	unfavourable
H1F4*	176	Shrubby hedgerow	2	2	Track (unsurfaced)	Arable crop	0.25	100			1.5	1.5	90	25	5	Trimmed & dense	2.5	1.25	0	No	1	East	unfavourable
H1F5*	182	Shrubby hedgerow	1	1	Improved grassland	Improved grassland	0	50	side A		0.5	0.5	20	20	0	Trimmed & dense	1.5	1.25	5	No	0.5	North	unfavourable
H1F8	161	Shrubby hedgerow	2	2	Semi-improved grassland	Improved grassland	0	75	side A	side B, dry	0.5	0.5	0	0	0		8	6	0	No	0	West	favourable
H1F8	162	Shrubby with line of trees	2	2	Improved grassland	Improved grassland	0	50	side A		0	0	20	0	0	Trimmed & dense	8	6	0	No	0.5	West	unfavourable
H1F8	163	Shrubby with line of trees	2	2	Semi-improved grassland	Improved grassland	1	150	side A	internal, dry	0	0	40	10	10	Untrimmed	8	6	0	No	0.5	West	unfavourable
H1F8	164	Shrubby with line of trees	2	2	Semi-improved grassland	Arable crop	0.5	50	side A		0	0	40	15	5	Trimmed & dense	6	4	0	No	1	West	unfavourable
H1F8	165	Shrubby with line of trees	2	2	Semi-improved grassland	Improved grassland	0.5	150	side A		0.5	0.5	70	15	5	Untrimmed	6	4	0	No	0.5	West	unfavourable
H1F9*	170	Shrubby with line of trees	2	2	Arable crop	Arable crop	0.5	150			2	2	75	20	0	Trimmed & dense	5	2.5	0	No	1	North	unfavourable
H1F9*	171	Shrubby with line of trees	2	2	Arable crop	Arable crop	0.25	75			4	4	40	60	20	Trimmed & dense	6	3	0	No	1	North	unfavourable
H1G1*	108	Shrubby hedgerow	2	2	Footpath	Arable crop	0.25	50			2	2	90	70	5	Trimmed & dense	3	1.25	0	No	0.25	North	unfavourable
H1G1*	109	Shrubby hedgerow	1	2	Footpath	Arable crop	0.25	100			0.5	0.5	80	40	5	Trimmed & dense	2	1.5	0	No	0.25	North	unfavourable
H1G1*	110	Shrubby hedgerow	2	2	Footpath	Arable crop	0.25	150			1.5	1.5	90	30	10	Trimmed & dense	2	1.5	0	No	0.25	North	unfavourable
H1G10	288	Shrubby hedgerow	3	2	Arable crop	Other	0	75	side B		3	3	80	25	15	Trimmed & dense	4	1	5	No	0.5	North East	unfavourable
H1G11*	84	Shrubby with line of trees	2	2	Arable crop	Arable crop	0.5	75			5	4	30	25	5	Trimmed & dense	6	5	5	No	0.25	West	unfavourable
H1G11*	85	Shrubby with line of trees	2	2	Arable crop	Arable crop	0	150			2.5	2.5	75	40	5	Trimmed & dense	6	4	0	No	0.5	North	unfavourable
H1G11*	86	Shrubby with line of trees	2	2	Arable crop	Arable crop	0	150			2	2	15	5	15	Trimmed & dense	6	4	5	No	0.25	West	unfavourable
H1G11*	87	Shrubby with line of trees	2	2	Arable crop	Arable crop	0.25	100			3	3	75	40	10	Trimmed & dense	6	2.5	5	No	0.25	West	unfavourable
H1G11*	88	Shrubby with line of trees	2	2	Arable crop	Arable crop	0	100			0	2	80	20	5	Untrimmed	6	5	0	No	0.25	West	unfavourable
H1G11*	89	Shrubby with line of trees	2	2	Arable crop	Arable crop	1	150			3	3	70	30	5	Trimmed & dense	10	2.5	0	No	0.5	North	unfavourable

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			End 1	End 2	Side A	Side B																	
H1G11*	90	Shrubby with line of trees	2	2	Arable crop	Arable crop	0.5	100			5	4	60	15	0	Trimmed & dense	6	3	5	No	0	North	unfavourable
H1G12*	83	Shrubby with line of trees	1	2	Arable crop	Arable crop	0.25	150			2.5	2.5	35	20	5	Trimmed & dense	4	1.5	0	No	0.25	North	unfavourable
H1G13	81	Shrubby with line of trees	2	2	Arable crop	Arable crop	0.25	150			2.5	2.5	40	25	40	Trimmed & dense	5	1.5	0	No	0.25	North	unfavourable
H1G13	82	Shrubby with line of trees	2	2	Arable crop	Arable crop	0.5	50			2.5	2.5	40	70	10	Trimmed & dense	3	1.5	0	No	0.25	North	unfavourable
H1G16	68	Shrubby with line of trees	2	2	Major road	Arable crop	0.5	100			0.5	1.5	10	5	0	Trimmed & dense	15	8	0	No	0.25	West	unfavourable
H1G16	69	Shrubby with line of trees	1	1	Arable crop	Major road	0.5	50			0.5	1.5	10	10	5	Untrimmed	8	3	0	No	0.25	West	unfavourable
H1G16	70	Shrubby with line of trees	2	2	Major road	Arable crop	0.5	25			0.25	1.5	15	10	0	Untrimmed	8	3	0	No	0.5	West	unfavourable
H1G17	74	Shrubby with line of trees	2	2	Minor road	Arable crop	0.5	25			0.25	0.25	5	5	10	Trimmed & dense	2.5	2	0	No	0	South	unfavourable
H1G17	75	Shrubby with line of trees	2	2	Minor road	Arable crop	0.25	25			0.25	0.25	0	10	10	Trimmed & dense	4	1.5	0	No	0	South	unfavourable
H1G17	76	Shrubby with line of trees	2	2	Minor road	Arable crop	0.25	50			0.25	0.25	40	15	10	Trimmed & dense	6	2.5	0	No	0	South	unfavourable
H1G17	77	Shrubby with line of trees	2	2	Minor road	Arable crop	0.25	50			0.5	0.5	25	15	5	Trimmed & dense	5	1.5	5	No	0.25	South	unfavourable
H1G17	78	Shrubby with line of trees	2	2	Minor road	Arable crop	0.25	25			1	1	20	15	5	Trimmed & dense	6	2.5	0	No	0	South	unfavourable
H1G17	79	Shrubby with line of trees	2	2	Minor road	Arable crop	1.5	45			0.5	0.5	0	5	5	Trimmed & dense	5	4	0	No	0	South	unfavourable
H1G17	80	Shrubby with line of trees	2	2	Minor road	Arable crop	0.25	50			0.25	0.25	25	10	5	Trimmed & dense	5	3	0	No	0	South	unfavourable
H1G2	100	Shrubby hedgerow	2	2	Footpath	Semi-mature woodland	0.25	50			1.5	1.5	5	5	0	Trimmed & dense	3	2	0	No	0.25	South	unfavourable
H1G2	101	Shrubby with line of trees	2	2	Track (unsurfaced)	Semi-mature woodland	0	50	side A		1.5	1.5	40	20	5	Trimmed & dense	4	1.5	0	No	0.25	South	unfavourable
H1G2	102	Shrubby with line of trees	2	2	Footpath	Semi-mature woodland	0	25			0.5	0.5	60	15	10	Trimmed & dense	2.5	3	0	No	0	South	unfavourable
H1G2	103	Shrubby hedgerow	2	2	Track (unsurfaced)	Semi-mature woodland	0	50	side A		0.25	0.25	40	20	5	Trimmed & dense	4	2	0	No	0.5	South	unfavourable
H1G2	104	Shrubby with line of trees	2	2	Footpath	Arable crop	0	75			2	1.5	90	15	5	Trimmed & dense	2.5	2	0	No	0.25	South	unfavourable
H1G3*	71	Shrubby with line of trees	2	2	Arable crop	Arable crop	0.25	20			2	5	60	10	0	Untrimmed	6	3	10	No	0.25	East	unfavourable
H1G3*	72	Shrubby with line of trees	2	2	Arable crop	Arable crop	0.5	150			6	6	75	30	25	Trimmed & dense	8	4	0	No	0.5	East	unfavourable
H1G3*	73	Shrubby with line of trees	2	2	Arable crop	Arable crop	0	25			0	3	30	5	20	Untrimmed	4	1.5	20	No	0.25	East	unfavourable
H1G4	105	Shrubby with line of trees	2	2	Footpath	Arable crop	0.5	100			1.5	1.5	80	40	5	Trimmed & dense	3	1.5	0	No	0	South	unfavourable
H1G4	106	Shrubby with line of trees	2	2	Footpath	Arable crop	0.25	150			2	2	95	50	10	Trimmed & dense	3	1.5	0	No	0	South	unfavourable
H1G4	107	Shrubby hedgerow	2	2	Footpath	Arable crop	0	20			1	1	95	75	5	Trimmed & dense	1.75	1.5	0	No	0	North	unfavourable
H1G5	96	Shrubby with line of trees	2	2	Arable crop	Arable crop	0.75	50			1.5	1	10	60	0	Trimmed & dense	3	1.5	0	No	0.5	East	unfavourable
H1G6*	97	Shrubby hedgerow	1	2	Minor road	Arable crop	0.25	75			0.25	1	75	40	10	Trimmed & dense	4	2	0	No	0	East	unfavourable
H1G6*	98	Shrubby hedgerow	1	1	Minor road	Arable crop	0.5	25			1	1	10	5	0	Trimmed & dense	4	2	0	No	0	East	unfavourable
H1G6*	99	Shrubby hedgerow	2	1	Minor road	Semi-improved grassland	0.5	100	side A		0.25	0.5	50	25	5	Trimmed & dense	2.5	1.5	0	No	0	East	unfavourable

Hedgerow unit ID	Survey Unit ID	Hedge type	Number of connections		Adjacent landuse		Bank height side A (m)	Herb height side A	Fence	Ditch	Width of undisturbed bed	Width of herbaceous	Nettles (%)	Cleavers (%)	Docks (%)	Hedgerow shape	Hedge height (m)	Hedge width (m)	Gaps (%)	Large gaps?	Canopy base height (m)	Orientation of Side A	Condition
			End 1	End 2	Side A	Side B																	
H1G7*	91	Shrubby with line of trees	2	2	Minor road	Arable crop	0	50	side A		1	1	60	75	5	Trimmed & dense	4	1.5	0	No	0	East	unfavourable
H1G7*	92	Shrubby with line of trees	2	2	Minor road	Arable crop	0	45	both sides		1	1	35	5	5	Trimmed & dense	2	1.5	15	Yes	0.25	East	unfavourable
H1G7*	93	Shrubby with line of trees	2	2	Minor road	Arable crop	0.5	150	side A		1	1	60	35	5	Trimmed & dense	4	1.5	0	No	0.25	East	unfavourable
H1G7*	94	Shrubby with line of trees	2	2	Minor road	Arable crop	0.5	75	both sides		1	1	55	10	0	Trimmed & dense	4	1.5	0	No	0	East	unfavourable
H1G8*	64	Shrubby hedgerow	1	1	Major road	Arable crop	1.5	100			1.5	3	80	60	15	Trimmed & dense	6	2	0	No	0.25	East	unfavourable
H1G8*	65	Shrubby hedgerow	1	1	Major road	Arable crop	1.5	50			1	5	60	10	5	Trimmed & dense	5	2.5	5	No	0.25	East	unfavourable
H1G8*	66	Shrubby hedgerow	1	1	Major road	Arable crop	0.25	50			5	5	30	15	5	Trimmed & dense	6	3	0	No	0.25	East	unfavourable
H1G8*	67	Shrubby hedgerow	1	1	Major road	Arable crop	0.25	25			0.25	1.5	10	35	5	Trimmed & dense	5	4	0	No	0	East	unfavourable
H1G9	95	Shrubby with line of trees	1	1	Semi-improved grassland	Semi-improved grassland	0.5	100			0.25	0.25	10	15	5	Untrimmed	8	3	0	No	0	South East	unfavourable

Hedgerow units that are within the Hornsea Three onshore cable corridor are indicated with asterisk (*) after the unit ID.