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## Biodiversity Management Plan

Wood Farm Holdings Ltd

Land at Wood Farm, Stanton Lane

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**REVISION HISTORY**

| Rev | Description of change                       | Date     | Initials |
|-----|---------------------------------------------|----------|----------|
| 1   | Original report                             | 23/03/23 | SH/NHL   |
| 2   | Addition of proposed bespoke bat house plan | 28/03/23 | NHL      |
| 3   | Amended landscaping drawing                 | 05/04/23 | NHL      |

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**DISCLAIMER**

It should be noted that the information above provides details of the Site's current ecological situation. In the event that the proposed development does not commence within 12 months of the date of this report, further advice should be sought from a suitably qualified ecologist as to whether the information provided requires updating in light of changing ecological conditions.

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## 1. INTRODUCTION

### Terms of Instruction

- 1.1 Nicholsons has been commissioned by Wood Farm Holdings Ltd to produce a Biodiversity Management Plan (BMP) for land off Stanton Lane, Ellistown, Coalville, Leicestershire in respect of the proposed redevelopment of buildings for B2/B8 employment.
- 1.2 The BMP will address Condition 13 of the Decision Notice;

*“No development shall commence, including works of site clearance and preparation, unless and until a Biodiversity Management Plan for the site, including a timetable for implementation, has been submitted to and approved in writing by the local planning authority that reflects the mitigation measures set out at Table 10 of the Lockhart Garratt Ecology Summary Report (Ref: 19-2105v4). The Plan shall set out a site-wide strategy for protecting and enhancing biodiversity, containing detailed design of the proposed biodiversity enhancements, including a biodiversity net gain assessment using a standard metric and arrangements for their subsequent management once the development is completed, including all retained and created habitats (including SuDS) and bat and bird boxes. Development shall be implemented and thereafter maintained in accordance with the approved Management Plan.”*

### Site Description

- 1.3 The site is located off Stanton Lane, Ellistown, Coalville, Leicestershire. The assessment covered the main commercial development area, (centred grid reference SK 45021 10431) (hereafter referred to as “the Site”), which is 32.50ha in area.
- 1.4 At the time of the assessment, the Site mostly comprised improved grassland, hedgerows, woodland, scattered trees, buildings and standing water.
- 1.5 The Site was surrounded by arable and agricultural land to the east, west and south with a linear border of woodland and quarry to the north.
- 1.6 The Site location plan is provided below at **Figure 1**.

### Proposed Development

- 1.7 Hybrid planning application comprising: Main Site - outline permission for erection of buildings for B2 and/or B8 employment, with a maximum floor area of 89,200 sq. m, served by new site access off West Lane and Stanton Lane and incorporating parking, landscaping, drainage, highways and other infrastructure. This will include demolition of existing structures, earthworks and diversion of the Grange Walk footpath (all matters other than access reserved). The New Farm Site - full permission for the erection of two replacement farm manager dwellings with the replacement of associated agricultural buildings and structures incorporating access, landscaping, drainage and other engineering works. (hereafter referred to as the ‘Proposed Development’).
- 1.8 For the purpose of this document all recommendations refer to the Main Site only.

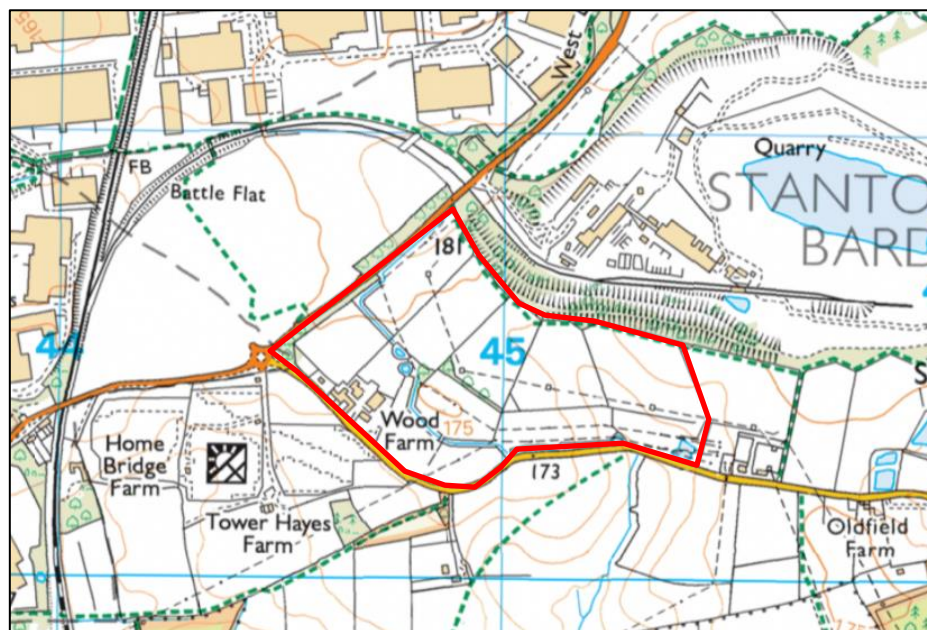


Figure 1: Site Location Plan

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Northants NN17 5JG.

## 2. ECOLOGICAL RESOURCES AND PROPOSED DEVELOPMENT IMPACTS

### **Habitats**

- 2.1 The majority of the habitat on Site was of low ecological value (improved grassland formed from a grass ley) and, as such, the removal of this habitat will have a limited ecological impact.
- 2.2 There are several habitats on Site that are of higher ecological value (broadleaved plantation, buildings, dense scrub, hedgerows, scattered trees and standing water). Impacts on these habitats will lead to a higher ecological impact.

### **Hedgerows**

- 2.3 There is a network of hedgerows forming the boundaries of the fields across the Site.
- 2.4 The hedgerows along the external boundaries of the Site will be retained apart from small sections to allow access to the Site. All of the internal hedgerows are to be lost.

### **Buildings**

- 2.5 A group of farm buildings and two residential buildings are located in the south of the Site. These vary from brick built single and double storey houses, barns and stables to metal agricultural barns.
- 2.6 All of the buildings located on the Site will be lost as part of the Proposed Development.
- 2.7 The buildings have limited value as a habitat. The value of the buildings on the Site is due to roosting bats and nesting birds. Therefore details on the impacts of this habitat are provided below in the Species section at 6.20.

### **Woodland and Trees**

- 2.8 There were three areas of young broadleaved plantation woodland in the centre of the Site adjacent to hedgerows with another area of woodland shelterbelt planted along the western boundary of the Site.
- 2.9 The woodland shelterbelt along the western boundary is to be retained. All other small areas of woodland will be removed.

### **Ponds**

- 2.10 There are six ponds located across the Site, although Pond 1 has been dry during all visits to the Site. The majority of the wet ponds were located within the pasture fields with the exception of Pond 5 which was in an area of dense scrub.
- 2.11 All ponds with the exception of Pond 6 are to be removed as part of the proposed development.

### **Grassland**

- 2.12 The majority of the Site consisted of improved grassland formed from grass leys which was used as cattle pasture. All of the improved grassland on Site is to be lost.

**Species*****Badgers***

- 2.13 No setts or confirmed evidence of badgers were recorded on Site. A low number of mammal trails were noted into the offsite plantation woodland to the north of the Site but these could not be positively contributed to badgers.
- 2.14 The offsite woodland will be retained with translocated hedgerow and species rich grassland planted adjacent within the red line boundary of the Site.

***Bats***

- 2.15 The proposed development will lead to the loss of all of the buildings on the Site, one of which (B9) is a confirmed roost. Buildings that are linked to B9 including B10 are also used by these bats with bats recorded flying through these buildings.
- 2.16 The hedgerows, woodland and shelterbelts are of value to foraging and commuting bats. The shelterbelt along the western boundary is to be retained. All external boundary features are to be retained with the exception of sections to allow access into the Site. The internal hedgerows and small woodland sections will largely be removed.

***Birds***

- 2.17 The hedgerows, woodland and shelterbelt are of value to foraging and nesting birds. The shelterbelt and external boundary hedgerows will be retained, apart from sections of hedgerow to allow access. The internal hedgerows and woodland areas will all be lost as part of the proposed development. This will lead to the loss of suitable nesting habitat.
- 2.18 Several of the farm buildings on the Site were found to support swallows. These buildings will be lost as part of the Proposed Development.

***Amphibians***

- 2.19 No great crested newts were recorded within any of the ponds on Site or any ponds within 450m of the site. A small population of common amphibians were recorded in several of the onsite ponds.
- 2.20 All of the ponds on site with the exception of P6 will be lost as part of the proposed development.

***Reptiles***

- 2.21 No reptiles were recorded on site as part of the survey work.

### 3. PROPOSED BIODIVERSITY ENHANCEMENTS

#### **Habitats**

##### ***Hedgerows***

- 3.1 Replacement hedgerow planting will be required to mitigate for this loss of existing hedgerows. Translocation of the existing higher quality hedgerows is also proposed to be undertaken as part of the landscape strategy.
- 3.2 Locally abundant, native plant will be used for all newly planted hedgerows with all translocated or existing hedgerows enhanced with a mix of native species.

##### ***Buildings***

- 3.3 There are no proposed biodiversity enhancements for the buildings themselves as their ecological value is in relation to the suitable for bats and birds.
- 3.4 Therefore, enhancements relating to this habitat are detailed below in the relevant species sections.

##### ***Woodland and Trees***

- 3.5 Replacement planting to mitigate for the loss of scattered trees and broadleaved plantation will be designed into the scheme. The National Forest planting requirement for the site will provide suitable replacement habitat.
- 3.6 Areas of wet woodland will also be created in close proximity to the ponds to provide additional habitat and variation in habitat close to the proposed ponds.
- 3.7 It is also the intention that, if possible, some of the existing semi mature trees located within hedgerows to be lost, in particular English oak *Quercus robur* and field maple *Acer campestre*, will be translocated into areas as identified on the landscape plan.

##### ***Ponds***

- 3.8 The SUDs ponds on site are to be designed to consistently hold water to provide replacement aquatic habitat for the ponds to be lost. They are also to be planted up with suitable wet grassland species to provide additional biodiversity resource.

##### ***Grassland***

- 3.9 Rough grassland habitat is to be created in areas of open space to provide compensatory habitat for lost semi-improved grassland. This will also provide mitigation for loss of the lower value grassland (improved grassland) to be lost.

**Species****Bats**

- 3.10 A bat mitigation licence will be required due to the loss of a confirmed bat roost within B9. As part of this licence, exclusion of the buildings used by bats will need to be undertaken to ensure no bats are harmed as part of the demolition. Replacement roosts will need to be provided. As the buildings to be erected on Site are not suitable for roosting bats it is recommended that a bespoke bat house is designed into the areas of proposed open space on the Site. The details of this bat house, including its location, will be confirmed and agreed with Natural England during the licensing process.
- 3.11 Replacement newly planted hedgerows, translocated hedgerows and areas of new woodland planting are to be included as part of the landscape design for the Site to maintain commuting links across the wider landscape. A 3-5m buffer is to be kept from all retained hedgerows along Stanton Lane with a minimum 10m buffer around areas of offsite woodland to the north of the Site to protect bats foraging and commuting along these features.
- 3.12 Sensitive working practices such as no night working and no artificial lighting of the woodland and hedgerows will act to safeguard any bats commuting or foraging around or near the Site during construction. Essential lighting incorporated into the Proposed Development should incorporate directional, baffled lighting and motion sensors alongside other methods installation to reduce disruptive light spill. A warm white light spectrum should be adopted to reduce blue light component with 'dark areas' should be incorporated around the boundary hedgerows and woodland to minimise disruption to bat foraging and commuting routes. Guidance in regards of bats and artificial lighting can be obtained from the Bats and Artificial Lighting in the UK (ILP, 2018)<sup>1</sup>.

**Birds**

- 3.13 Replacement hedgerows are to be included in the landscaping scheme. Woodland is to be included in the open space as part of the National Forest planting requirement which will provide good replacement habitat for these species.
- 3.14 Hedgerows, woodland and buildings are to be removed outside of the bird nesting season (March – August inclusive).
- 3.15 Replacement roosts for swallows will need to be created. As the buildings to be erected on the Main Site are not suitable for use by swallows it is recommended that replacement nests are incorporated into the design of the bespoke bat house to be created on site. There is also opportunity to provide mitigation habitat within the proposed new buildings to be constructed within the adjacent 'New Farm' Site.

**Amphibians**

- 3.16 Sensitive working practices such as phased vegetation clearance and destructive searches by hand will safeguard any amphibians should they be present within the improved grassland, hedgerows, scrub and woodland habitats within the Site.

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<sup>1</sup> Institution of Lighting Professionals. (2018). Bats and artificial lighting in the UK. London: Bat Conservation Trust.

- 3.17 Ponds will need to be trapped and drained of water prior to destruction due to the presence of common amphibians. All amphibians located will need to be relocated to habitat outside the main construction area.
- 3.18 Habitat improvements include rough grassland creation, scrub planting, woodland planting and designing SUDs features to be suitable for wildlife. Log piles and hibernacula will also be incorporated into woodland and grassland habitats.

***Reptiles***

- 3.19 Habitat creation in the form of woodland planting, scrub and grassland creation will provide suitable habitat for these species.
- 3.20 The retention and buffering of the Site boundaries will retain dispersal corridors into the wider local area which will allow potential colonisation of the Site by reptiles from existing local populations.
- 3.21 Sensitive working practices such as phased vegetation clearance and destructive searches via hand to safeguard any amphibians will also protect reptiles should they be present on site.

## 4. BIODIVERSITY IMPACT ASSESSMENT

### Methodology

- 4.1 The DEFRA Biodiversity Metric 3.1 (“the Metric”) provides a way of measuring and accounting for biodiversity losses and gains resulting from development or land management change.
- 4.2 Following a Preliminary Ecological Appraisal (PEA) site survey and habitat mapping, the areas of habitats within a site are input into the Metric using the UK Habitat Classification methodology converted from the standard JNCC Phase 1 habitat survey classifications. Each habitat has a predetermined distinctiveness score, which is inputted once the habitat is selected. The distinctiveness score reflects how rare that habitat is across England and whether the habitat is considered a Priority Habitat in accordance with S.41 of the Natural Environment and Rural Communities Act, 2006. Distinctiveness scores range from ‘Low’ to ‘Very High’.
- 4.3 Once the classification and distinctiveness of the habitat has been determined, the condition of the habitat has to be assessed. These condition assessments are defined within the technical supplement to the Metric and provide a set of criteria against which differing habitats are assessed. Depending on how many of the criteria the habitat passes, the condition can then be classified on a scale ranging from ‘Poor’ to ‘Good’ with a corresponding score of 1-3.
- 4.4 In addition to the habitats present within a site, the strategic significance of a site within the wider landscape is also considered. The Metric will add additional value to habitats within a preferred location for biodiversity i.e. within an area formally identified within local strategy. This may include Biodiversity Action Plans, Nature Recovery Areas and green infrastructure strategies.
- 4.5 Habitats outside of these areas are assigned a low strategic significance, which is not penalised, but adds no further value to the habitat score.
- 4.6 Once all of this information is provided, the Metric will calculate a total baseline biodiversity value for a site taking into account all of the aforementioned features (“the Metric Calculation”).

### Biodiversity Baseline Calculation

- 4.7 The Site consists of improved grassland, hedgerows, woodland, scattered trees, buildings and standing water. The baseline habitat map is presented at **Appendix 1**.
- 4.8 Using the condition sheets as set out within the Technical Supplement<sup>2</sup> the conditions of the habitats within the Site were assessed, the full assessment tables and site notes are presented at **Appendix 2**.
- 4.9 The majority of the habitats within the Site will be lost as part of the Proposed Development. Some areas of woodland and scrub will be retained. The majority of the boundary hedgerows will also be retained; however the internal field boundary hedgerows will be lost. A summary of the baseline assessment for the area habitats is presented at **Table 1** and the baseline assessment for linear habitats at **Table 2**. The results of the metric calculation are set out in **Appendix 3**.

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<sup>2</sup> <http://nepubprod.appspot.com/publication/6049804846366720>

- 4.10 As the ditch habitat is in association with hedgerows on the Site the ditches have been included within the hedgerow calculation as ‘a hedgerow or line of trees associated with a bank or ditch’ in line with Biodiversity Metric 3.1 User Guide.

### Strategic Significance

- 4.11 For the purposes of the Metric Calculation, the habitats within the Site have been classified as having Low Strategic Significance as they are an ‘Area/compensation not in local strategy/ no local strategy’<sup>3</sup>.

**Table 1: Baseline Area Habitats, Condition and Units**

| Phase 1<br>Habitat Type                                    | Metric<br>Habitat                                  | Condition<br>sheet used               | Condition                    | Area (ha) | Biodiversity<br>Units |
|------------------------------------------------------------|----------------------------------------------------|---------------------------------------|------------------------------|-----------|-----------------------|
| Improved<br>grassland                                      | Cropland;<br>temporary<br>grass and<br>clover leys | N/A                                   | No<br>assessment<br>required | 29.54     | 59.08                 |
| Broadleaved<br>woodland                                    | Other<br>woodland;<br>broadleaved                  | Woodland                              | Moderate                     | 1.07      | 8.56                  |
| Dense scrub                                                | Mixed scrub                                        | Scrub                                 | Poor                         | 0.1       | 0.40                  |
| Amenity<br>grassland                                       | Modified<br>grassland                              | Grassland –<br>low<br>distinctiveness | Poor                         | 0.11      | 0.22                  |
| Introduced<br>shrub                                        | Introduced<br>shrub                                | N/A                                   | No<br>assessment<br>required | 0.02      | 0.04                  |
| Pond                                                       | Pond (non-<br>priority<br>habitat)                 | Pond                                  | Moderate                     | 0.34      | 2.72                  |
| Buildings                                                  | Developed<br>land; sealed<br>surface               | N/A                                   | No<br>assessment<br>required | 0.36      | 0                     |
| Hardstanding                                               | Developed<br>land; sealed<br>surface               | N/A                                   | No<br>assessment<br>required | 0.96      | 0                     |
| <b>Total baseline biodiversity units for area habitats</b> |                                                    |                                       |                              |           | <b>71.02</b>          |

<sup>3</sup> It should be noted that in discussion with Phil Metcalfe, he supports the idea that in line with the National Forest strategy the strategic significance of certain habitats should be upgraded to a higher strategic significance.

**Table 2: Baseline Linear habitat Condition and Units**

| Phase 1<br>Habitat Type                                      | Metric<br>Habitat                | Condition<br>sheet used | Condition | Length (km) | Biodiversity<br>Units |
|--------------------------------------------------------------|----------------------------------|-------------------------|-----------|-------------|-----------------------|
| Hedgerow                                                     | Native<br>hedgerow               | Hedgerow                | Moderate  | 2.38        | 9.52                  |
| Hedgerow                                                     | Native<br>hedgerow               | Hedgerow                | Poor      | 0.108       | 0.22                  |
| Hedgerow                                                     | Native<br>hedgerow<br>with trees | Hedgerow                | Moderate  | 0.99        | 7.92                  |
| <b>Total baseline biodiversity units for linear habitats</b> |                                  |                         |           |             | <b>17.66</b>          |

### Biodiversity Post-development Assessment

- 4.12 The Post-Development Calculation has been undertaken using the Detailed Planting Plan produced by BCA Design (2289-22-03E). A post-development habitat plan is provided at **Appendix 4**.
- 4.13 A summary of the post-development habitat assessment within the Metric is presented in **Table 3** and linear habitat assessment is presented in **Table 4**. Target condition have been based on the details provided in the Detailed Landscape Design. Post-Development Condition Sheets are presented at **Appendix 5**.

**Table 3: Post-Development Area habitats, Condition and Units**

| Proposed<br>Habitat<br>(landscape<br>plan<br>descriptions) | Metric<br>Habitat                    | Condition<br>Sheet Used           | Condition | Area (ha) | Biodiversity<br>Units |
|------------------------------------------------------------|--------------------------------------|-----------------------------------|-----------|-----------|-----------------------|
| <b>Habitat Retention</b>                                   |                                      |                                   |           |           |                       |
| Woodland                                                   | Other<br>woodland;<br>broadleaved    | Woodland                          | Moderate  | 0.757     | 6.06                  |
| Pond                                                       | Pond (Non-<br>Priority<br>Habitat)   | Pond                              | Moderate  | 0.147     | 1.18                  |
| <b>Habitat Creation</b>                                    |                                      |                                   |           |           |                       |
| Buildings                                                  | Developed<br>land; sealed<br>surface | N/A                               | N/A       | 8.632     | 0.00                  |
| Hardstanding                                               | Developed<br>land; sealed<br>surface | N/A                               | N/A       | 8.711     | 0.00                  |
| Grass seeded<br>areas                                      | Modified<br>grassland                | Grassland; low<br>distinctiveness | Poor      | 0.761     | 1.47                  |

| Proposed Habitat<br>(landscape plan descriptions)                  | Metric Habitat                     | Condition Sheet Used             | Condition | Area (ha) | Biodiversity Units                       |
|--------------------------------------------------------------------|------------------------------------|----------------------------------|-----------|-----------|------------------------------------------|
| Ornamental shrub planting                                          | Introduced shrub                   | N/A                              | N/A       | 0.159     | 0.31                                     |
| Translocated tree stock                                            | Other woodland; broadleaved        | Woodland                         | Poor      | 0.262     | 0.88                                     |
| Broadleaf woodland core mix                                        | Other woodland; broadleaved        | Woodland                         | Moderate  | 2.216     | 10.39                                    |
| Broadleaf wood edge mix                                            | Other woodland; broadleaved        | Woodland                         | Moderate  | 2.657     | 12.46                                    |
| Thicket mix                                                        | Mixed scrub                        | Scrub                            | Moderate  | 0.195     | 1.31                                     |
| Tall ornamental shrub planting                                     | Introduced shrub                   | N/A                              | N/A       | 0.024     | 0.05                                     |
| Low ornamental shrub planting                                      | Introduced shrub                   | N/A                              | N/A       | 0.268     | 0.52                                     |
| Species rich grassland areas                                       | Other neutral grassland            | Grassland; medium, high & v.high | Moderate  | 5.783     | 38.72                                    |
| Species rich wetland grass                                         | Other neutral grassland            | Grassland; medium, high & v.high | Moderate  | 1.279     | 8.56                                     |
| Wet Woodland                                                       | Wet woodland                       | Woodland                         | Moderate  | 0.486     | 2.29                                     |
| SUDs                                                               | Sustainable urban drainage feature | Urban                            | Moderate  | 0.166     | 0.40                                     |
| Standard tree                                                      | Urban tree                         | Urban tree                       | Moderate  | 0.6511    | 1.99                                     |
| <b>Total post-development biodiversity units for area habitats</b> |                                    |                                  |           |           | <b>86.56</b><br>(due to metric rounding) |

**Table 4: Post-Development Linear habitats, Condition and Units**

| Proposed Habitat<br>(landscape plan<br>descriptions)                 | Metric Habitat                  | Condition | Length<br>(km) | Biodiversity<br>Units |
|----------------------------------------------------------------------|---------------------------------|-----------|----------------|-----------------------|
| <b>Habitat Retention</b>                                             |                                 |           |                |                       |
| Hedgerow                                                             | Native hedgerow                 | Moderate  | 0.92           | 3.68                  |
| Hedgerow                                                             | Native hedgerow<br>with trees   | Moderate  | 0.16           | 1.28                  |
| <b>Habitat Creation</b>                                              |                                 |           |                |                       |
| Indigenous<br>Hedgerow                                               | Native species rich<br>hedgerow | Good      | 1.53           | 11.97                 |
| Translocated<br>hedgerow/<br>Indigenous<br>Hedgerow                  | Native hedgerow<br>with trees   | Good      | 0.526          | 3.10                  |
| <b>Total post-development biodiversity units for linear habitats</b> |                                 |           |                | <b>20.03</b>          |

### Conclusion

- 4.14 Based on the assessment within the Metric, there will be;
- a gain of **14.45** area habitat units giving a **21.88% net gain**.
  - a gain of **2.37** hedgerow habitat units giving a **13.44% net gain**.
- 4.15 The calculation takes into account the retained habitat features along with the habitats to be created at the Site. A biodiversity net gain of over 10% has been achieved for all areas of the calculation.

## 5. HABITAT MANAGEMENT

- 5.1 This section will set out the methods by which the existing habitats identified in Section 2.3 - 2.12 will need to be protected and managed throughout the duration of the Proposed Development.
- 5.2 For each habitat, details are given for two stages; pre-construction and during construction. The post construction management for all habitats retained and created will be undertaken in line with the BCA Management Proposals (Reference: 2289-22-RP01, Jan 2023).

### **Broadleaved Woodland**

#### ***Pre-Construction***

- 5.3 Prior to any construction works commencing, the area for active construction is to be identified and marked on the ground. A physical boundary such as HERAS fencing should be used to demarcate this area and prevent any construction creep into retained habitats.
- 5.4 Implementation of the Tree Protection Plan and Root protection Areas (RPA's) presented within the accompanying Arboricultural Impact Assessment (AIA) ( Lockhart Garratt, 2021 Reference: 19-2138) must be completed prior to the commencement of construction. Measures presented in this document will assist in minimising direct or indirect impacts on retained areas of woodland through the installation of physical barriers and ground protection ahead of the main Site clearance works commencing.
- 5.5 Any areas of woodland to be removed should be undertaken outside the breeding bird season (March – August) inclusive). If removal cannot be facilitated outside of this period than a nesting bird check must be undertaken by a suitably qualified ecologist (SQE) no more than 24 hours prior to removal.
- 5.6 Prior to the commencement of the Proposed Development the lighting strategy must have been approved by a Suitably Qualified Ecologist to reduce impacts on this habitat post-development for wildlife.

#### ***During Construction***

- 5.7 During construction mitigation measures must be followed by operatives to minimise potential impacts upon the retained areas of woodland including avoidance of trampling, littering or the storage or placement of materials within close proximity of these habitats.
- 5.8 Standard construction pollution and dust control measures will be implemented.
- 5.9 Physical boundaries demarcating the RPA's must be regularly checked by the Site Manager to ensure they have not become damaged or moved as part of the construction works.

#### ***Post-Construction***

- 5.10 New areas of woodland planting will be created as part of the overall landscape design for the Site.
- 5.11 The long-term management of the retained and created woodland onsite is detailed within the BCA Management Plan and will maximise the benefit of these habitats for wildlife with

management works that involve pruning, thinning and coppicing to be undertaken outside the nesting bird season.

## **Buildings**

### ***Pre-Construction***

- 5.12 All farm buildings onsite will be lost. A confirmed roost has been confirmed in one of the brick buildings (B9) onsite with bats known to fly within adjoining buildings prior to emerging.
- 5.13 Up to date nocturnal bat surveys will be required to inform a Natural England Protected Species Licence Application to demolish the buildings.

### ***During Construction***

- 5.14 Demolition of buildings is to be undertaken outside the nesting bird season (March – August inclusive).
- 5.15 Swallows have been identified nesting within a number of the brick farm buildings at the Site. Swallows are a migratory species are likely to still be present after the recognised nesting bird season. It is an offence under Section 1 of the Wildlife and Countryside Act (1981) to intentionally take, damage or destroy the nest of any wild bird while it is in use or being built, or to intentionally kill, injure or take chicks or adults, or intentionally take or destroy any eggs.
- 5.16 As the swallow nests are likely to still be in use until they leave for their annual migration in mid – late autumn an precautionary pre-demolition check of buildings will be undertaken to ensure birds are no longer nesting or present outside of this period should be undertaken.

### ***Post Construction***

- 5.17 Two new warehouse buildings will be constructed onsite. A custom bat loft will also be required, constructed within the habitats to the west of the Site (specific details to be outlined as part of the bat mitigation licence).
- 5.18 No specific post-construction management is outlined for the warehouse buildings and the monitoring of the bat loft will be outlined within the mitigation licence.

## **Scrub**

### ***Pre-Construction***

- 5.19 All areas of scrub to be removed should be undertaken outside the breeding bird season (March – August) inclusive). If removal cannot be facilitated outside of this period than a nesting bird check must be undertaken by a SQE no more than 24 hours prior to removal.
- 5.20 If evidence of nesting birds is found then the habitat cannot be removed until it has been confirmed that the nest is no longer in active use. An SQE will outline a suitable buffer area to minimise the level of disturbance to any nesting birds until the nest is found to be no longer in use.

### ***During Construction***

- 5.21 No recommendations during construction as no scrub habitat is to be retained.

**Post-Construction**

- 5.22 Scrub thicket creation is to be designed into the Landscape Design to offset the loss of existing dense scrub. The composition of the scrub and its location will take in to account the requirement to provide suitable cover for nesting birds and small mammals.
- 5.23 Fruit and nut producing shrub and scrub species should be incorporated into the planting mix, to provide improved foraging grounds for bird and mammal species on site.
- 5.24 The long-term management of the created and retained scrub is detailed within the BCA Management Plan will maximise the benefit of these habitats for wildlife and include cutting back of scrub outside of the bird nesting season, with cutting completed on rotation to maintain foraging and sheltering opportunities for birds and mammals.

**Hedgerows****Pre-Construction**

- 5.25 Retained hedgerows on the boundary of the Site will be protected using fencing during the construction phase. Prior to any construction works commencing, the lengths of retained hedgerows along the boundary of the Site are to be identified. A physical boundary such as HERAS fencing should be used to demarcate the retained habitat and prevent any construction creep.
- 5.26 Implementation of the Tree Protection Plan and Root protection Areas (RPA's) presented within the Arboricultural Impact Assessment (AIA) ( Lockhart Garratt, 2021 Reference: 19-2138) must be completed prior to the commencement of construction. Measures presented in this document will assist in minimising direct or indirect impacts on retained lengths of hedgerow through the installation of physical barriers and ground protection ahead of the main Site clearance works commencing.
- 5.27 Prior to the commencement of the Proposed Development the lighting strategy must have been approved by a SQE to reduce impacts on this habitat post-development.
- 5.28 All sections of hedgerow to be removed should be undertaken outside the breeding bird season (March – August) inclusive). If removal cannot be facilitated outside of this period than a nesting bird check must be undertaken by a SQE no more than 24 hours prior to removal.
- 5.29 If evidence of nesting birds is found then the habitat cannot be removed until it has been confirmed that the nest is no longer in active use. An SQE will outline a suitable buffer area to minimise the level of disturbance to any nesting birds until the nest is found to be no longer in use.

**During Construction**

- 5.30 During construction mitigation measures must be followed by operatives to minimise potential impacts upon the retained hedgerows including avoidance of trampling, littering or the storage or placement of materials within close proximity of these habitats.
- 5.31 Standard construction pollution and dust control measures should be implemented.

- 5.32 Physical boundaries demarcating the RPA's must be regularly checked by the Site Manager to ensure they have not become damaged or moved as part of the construction works.
- 5.33 Construction lighting should be directed away from retained hedgerows.

***Post-Construction***

- 5.34 Hedgerow creation and the gapping up of existing hedgerows will be undertaken.
- 5.35 Fruiting species known to be attractive to locally important species (e.g. Red and Amber List hedgerow bird species and hedgehog) should be incorporated in the planting mix, along with new native hedgerow trees where appropriate to provide additional nesting and roosting opportunities for birds and bats in the long-term.
- 5.36 The hedgerow management detailed in the BCA Management Plan will maximise value for wildlife including birds and small mammals. Ideally pruning works should be undertaken outside of the bird nesting season .

**Grassland**

***Pre-Construction***

- 5.37 No areas of current improved grassland identified onsite are to be retained as part of the proposed works and as such no protection measures are required for this habitat.
- 5.38 The existing programme of intensive agricultural management is to be maintained, so as to maintain the low suitability of this habitat for these species (e.g. amphibians, ground nesting birds and reptiles).

***During Construction***

- 5.39 The areas of grassland do however surround a number of waterbodies that were found to support common amphibians and as such, sensitive working practices have been recommended to minimise the potential risks. Phased vegetation clearance and destructive hand searches should be undertaken to minimise potential impacts upon potential amphibian and reptile species present within the Site.

***Post-Construction***

- 5.40 All grassland creation will be undertaken using a species rich grassland mix. Some areas of close mown grassland areas will be created determined by location and visual importance across the Site; likely to be in areas of close proximity to the proposed warehouses.
- 5.41 The remaining areas of species rich grassland will be allowed to set seed prior to the single annual cut. All arisings should be removed from the Site to prevent nutrient enrichment. It is possible to utilising arisings to create a grass cutting pile within the 'wilder' area to the east of the Site providing suitable habitat for nesting grass snake if present and reduce the need for arisings to be removed from Site.
- 5.42 The long term management of the area of the species rich grassland detailed in the BCA Management Plan aims to maximise this habitat for botanical interest and to maintain this habitat for potential foraging and breeding habitat for ground nesting birds, amphibians, reptiles, brown hare and small mammals.

**Waterbodies*****Pre-Construction***

- 5.43 A single waterbody (P6) is to be retained with five other waterbodies (P1-P5) lost as part of the Proposed Development. P6 is to be protected, and a physical fencing using HERAS panels or a suitable alternative should be installed around the pond at least 3m away from the water's edge to maintain some terrestrial habitat in close proximity to the waterbody.
- 5.44 Ponds 1-5 will be lost during construction. Populations of common amphibians have been recorded within the waterbodies, trapping of the ponds and supervised draining of the ponds must be undertaken under the supervision of a licensed ecologist. All amphibians found will be relocated to the retained pond (P6).
- 5.45 If GCN are discovered on Site then all works must stop and current working methodologies will be reviewed. The need to obtain a great crested newt mitigation licence may be required.

***During Construction***

- 5.46 During construction mitigation measures must be followed by operatives to minimise potential impacts upon the retained waterbody including avoidance littering or the storage or placement of materials within close proximity of these habitats.
- 5.47 Standard construction pollution and dust control measures should be implemented. Construction run-off must not be allowed to enter the retained waterbody.
- 5.48 Physical boundaries demarcating the protection area surrounding the pond must be regularly checked by the Site Manager to ensure they have not become damaged or moved as part of the construction works.

***Post-Construction***

- 5.49 The creation of two new waterbodies in close proximity to the retained pond, with associated species rich grassland, woodland and hedgerow planting will improve the habitat for any amphibians present.
- 5.50 Management of emergent and marginal vegetation is to be maintained to ensure the retained and newly created waterbodies do not become choked by vegetation and maintain the original design objectives for wildlife and flood attenuation capacity.

**All Habitats*****Post-Construction***

- 5.51 Management post-construction will be undertaken by the appointed maintenance contractors appointed by the facilities manager on an annual basis. The maintenance of the habitats created will be undertaken by landscape contractor responsible for the implementation of the works for the first year after practical completion.

- 5.52 The maintenance and management schedule outlined in the 'Soft landscape Works Maintenance and Management Proposals – 10 Years' for land at Wood Farm produced by BCA Design (Reference: 2289-22-RP01 10yr M&M; Jan 2023) should be followed.
- 5.53 The BCA Management Plan will be reviewed prior to the end of the 10 year management term outlined in the current document and a new maintenance and management plan produced for the next ten years of entire remaining management term (20years).

## 6. SPECIES MANAGEMENT

- 6.1 This section will set out the methods by which the notable protected species identified in Section 2.13 - 2.21 will be protected and managed throughout the duration of the Proposed Development.
- 6.2 A toolbox talk is to be given to the contractors undertaking the works by the Ecological Clerk of Works (ECoW) prior to works starting on Site. The toolbox talk will include a briefing on the species that may be present within the area to be worked, their habitat preferences and also a set of instructions to follow if any are encountered as part of the works.
- 6.3 For each species, details will be given for three stages: pre-construction, during construction and post-construction.

### **Amphibians**

#### ***Pre-Construction***

- 6.4 Evidence of common amphibians have been recorded within the Site. Ahead of the Site clearance commencing the existing management of grazing across the grassland habitats within the Site should be maintained so as to maintain the low suitability of these features for amphibians.

#### ***During Construction***

- 6.5 Removal of suitable habitat (e.g. hedgerows, scrub, tall grassland) or works to existing ditches should preferably be completed outside of the hibernation period (Mid-Nov to Feb inclusive) and with overnight temperature consistently above 5°C and be subject to a pre-works check by a SQE.
- 6.6 Suitable refugia (e.g. rubble piles) present within the proposed works area is to be searched and removed by the ECoW. Any amphibians captured as part of this will be relocated to the retained waterbody (P6).
- 6.7 Any areas of tall grassland (e.g. 0.5m above), scrub and tall ruderal habitat to be lost are to be cut/strimmed/brush cut or flailed initially to a height of 150mm.
- 6.8 After a 5 day period this area is then to be strimmed to a height of 50mm before being soil stripped.
- 6.9 Any sections of hedgerow, or individual mature trees are to be cut to ground level and then left for 5 days before the roots belonging to these features are removed.
- 6.10 Any amphibians captured as part of habitat removal works will be relocated into suitable habitat outside of the construction zone to the retained waterbody.
- 6.11 The waterbodies to be lost as part of the Proposed Development must be trapped prior to the supervised draining using a pump with a fine (<1.5mm) mesh or cover to prevent any amphibians and other wildlife being drawn through the pump. Once all the water has been removed from the pond the surrounding vegetation, debris and silt should be searched through to ensure all amphibians and other wildlife have been removed. All works should be undertaken by a suitably licensed and qualified ecologist.

- 6.12 Waterbodies should be infilled directly following exclusion efforts with all trapped amphibians moved outside of the main construction zone to the retained waterbody.

***Post-Construction***

- 6.13 Habitat improvements and creation include rough grassland, woodland planting and SUD features. Log piles and hibernaculum are to be installed within the woodland, grassland or hedgerow habitats to the east of the Site to compensate for the terrestrial refugia to be lost. At least one hibernaculum and two log piles should be created in association with each newly created waterbody and, at least two log piles to be installed around the retained waterbody.
- 6.14 Log piles should be checked annually and topped up with logs when required to maintain a permanent refugia.
- 6.15 Management of retained and created habitats outlined in the BCA Management Plan will be designed to consider amphibians and other wildlife. This will include retention of areas of longer grass to provide suitable foraging habitat and the creation of additional habitat piles using grass cuttings and pruned materials from the Site.

**Badgers**

***Pre-Construction***

- 6.16 No setts or confirmed evidence of badgers were recorded on Site. A low number of mammal trails were noted into the offsite plantation woodland to the north of the Site but these could not be positively contributed to badgers. A pre-commencement walkover of the Site is recommended ahead of any construction works.
- 6.17 The retained boundary hedgerows are to be protected following RPA guidelines outlined in the AIA; these boundary features could offer possible commuting routes for badgers in the wider landscape.

***During Construction***

- 6.18 Retained boundary features protected as part of the AIA will be maintained throughout construction.
- 6.19 The construction phase will avoid night working and lighting. Where essential lighting is required, it will incorporate directional and baffled lighting and motion sensors and other methods of reducing disruptive light spill. All essential lighting should still aim to avoid any light spill on habitats considered suitable for foraging badgers including hedgerows and woodland.

***Post-Construction***

- 6.20 Habitat creation includes species rich grassland, woodland and hedgerow planting that will be managed according to the BCA Management Plan. Management will allow for areas of short and longer grassland that will support foraging opportunities for badgers.

**Bats*****Pre-Construction***

- 6.21 All farm buildings onsite will be lost. A confirmed roost has been confirmed in one of the brick buildings (B9) onsite with bats known to fly within adjoining buildings prior to emerging.
- 6.22 Up to date nocturnal bat surveys will be required to inform a Natural England Protected Species Licence Application to demolish the buildings.
- 6.23 Prior to the commencement of the Proposed Development the lighting strategy must have been approved by a SQE to ensure that it will not impact adversely upon bats that may be using the Site.

***During Construction***

- 6.24 Demolition works will follow the conditions outline in the Mitigation Licence obtained from Natural England. Conditions may include restrictions in regard to the timings of works, exclusion works, supervised roof strips and dismantling of roof structures by hand.
- 6.25 Due to the construction design of the commercial warehouses proposed for the Site being unsuitable for roosting bats the construction of a bespoke bat house will also be required with the size, construction materials and location to be determined as part of the licencing process. It is likely that the bespoke bat house will require to be constructed prior to the demolition of B9.
- 6.26 The construction phase will avoid night working and lighting. Where essential lighting is required, it will incorporate directional and baffled lighting and motion sensors and other methods of reducing disruptive light spill. All essential lighting should still aim to avoid any light spill on habitats considered suitable for foraging and roosting bats including hedgerows, mature trees and waterbodies.
- 6.27 Any major landscape works that are required to be undertaken in close proximity to the proposed bat house; such as the SUD's and flood attenuation areas should ideally be prioritised before or alongside the construction of the bespoke bat house / demolition of B9.

***Post-Construction***

- 6.28 Habitat creation will include areas of woodland creation, species rich grassland, hedgerows and tree planting and will be managed in line with the BCA Management Plan.
- 6.29 Monitoring of the bespoke bat house post construction will be required and outlined as part of the Mitigation Licence Application. Management of the habitats around the bat house should be undertaken minimising the possibility of disturbance on possible roosting bats and managed to ensure that they provide sustained benefits for the local bat population.
- 6.30 In addition to the bespoke bat house (dimensions and construction materials to be confirmed as part of the mitigation licence application) it is recommended that at least one bat box (such as a Greenwood Ecohabitats single or two crevice bat box or Schwegler 1FF is installed within the area of retained woodland in the west of the Site. Boxes should be as high as possible, at least 4-5m of the ground and allow free flight access within the woodland to the entry holes. Lighting should be minimised in areas where boxes are installed.

- 6.31 The location, height and orientation of all new wildlife boxes within the Site will be advised by the SQE. The suggested location for the bespoke bat house (to be agreed with Natural England) is presented at **Appendix 6**.
- 6.32 All installed bat boxes will need to be checked annually for signs of damage; ideally during the winter months to minimise disturbance. Boxes can be checked from ground level and any missing or damaged boxes should be replaced like for like.

## **Birds**

### ***Pre-Construction***

- 6.33 Prior to the commencement of the Proposed Development the lighting strategy must have been approved by a SQE to limit disturbance to suitable nesting and foraging habitat.
- 6.34 Suitable nesting and foraging habitat (woodland and hedgerows) to be retained within, and around the boundaries of the Site will be protected through implementation of the appropriate tree protection measures outlined in the AIA.

### ***During Construction***

- 6.35 All areas of habitat that have the potential to support nesting birds that are to be removed should be undertaken outside the breeding bird season (March – August) inclusive). If removal cannot be facilitated outside of this period than a nesting bird check must be undertaken by a SQE no more than 24 hours prior to removal.
- 6.36 If evidence of nesting birds is found then the habitat cannot be removed until it has been confirmed that the nest is no longer in active use. An SQE will outline a suitable buffer area to minimise the level of disturbance to any nesting birds until the nest is found to be no longer in use.
- 6.37 A nesting bird check of at least B8-11 must be undertaken prior to the demolition of these buildings due to the presence of swallows within this buildings. Demolition works cannot be undertaken until the nests present inside these buildings have been confirmed to be no longer in use.
- 6.38 The construction phase will avoid night working and lighting. Where essential lighting is required, it will incorporate directional and baffled lighting and motion sensors and other methods of reducing disruptive light spill. All essential lighting should still aim to avoid any light spill on habitats considered suitable for nesting and foraging birds including hedgerows, woodland and mature trees.

### ***Post-Construction***

- 6.39 Habitat creation includes hedgerow planting, grassland, scrub thicket and woodland creation, with proposed management outlined in the BCA Management Plan that maximises value for wildlife including, annual grassland cutting and woodland maintenance outside of the bird nesting season and minimising hedgerow trimming.

- 6.40 Mitigation for the loss of the swallow nests is recommended to be incorporated within the bespoke bat loft design. At least four swallow cups should be installed in suitable locations as part of the bespoke bat loft design.
- 6.41 The installation of a selection of bird boxes should be undertaken across the Site within areas of retained woodland and scattered trees and mature hedgerows where appropriate. At least five woodcrete (or similar) open fronted nest boxes and 5 nest boxes with a mix of 28mm and 32mm entrance holes should be provided.
- 6.42 Boxes should be installed at least 3m above ground level but the location, height and orientation of all new wildlife boxes within the Site will be advised by the SQE.
- 6.43 Boxes should be checked annually for signs of damage; ideally during the winter months to minimise disturbance. Boxes can be checked from ground level and any missing or damaged boxes should be replaced like for like.

## **Reptile**

### ***Pre-Construction***

- 6.44 No evidence of reptiles were recorded at the Site. Ahead of the Site clearance commencing the existing intensive management of arable, improved and semi-improved grassland habitats within the Site should be maintained so as to maintain the low suitability of these features for reptiles.

### ***During Construction***

- 6.45 The phased vegetation clearance outlined for amphibians at 6.7 - 6.9 above will also protect any reptiles that may be using the Site on occasion.
- 6.46 Suitable refugia (e.g. rubble piles) present within the proposed works area is to be searched and removed by the Ecological Clerk of Works. Any reptiles captured as part of this will be relocated into suitable habitat outside of the construction zone.

### ***Post-Construction***

- 6.47 Long term management of these habitats outlined in the BCA Management Plan is designed to maximise the habitat value to a range of wildlife including reptiles.
- 6.48 Log piles and hibernaculum installed as per the recommendations for amphibians will also offer areas of refugia for reptiles.

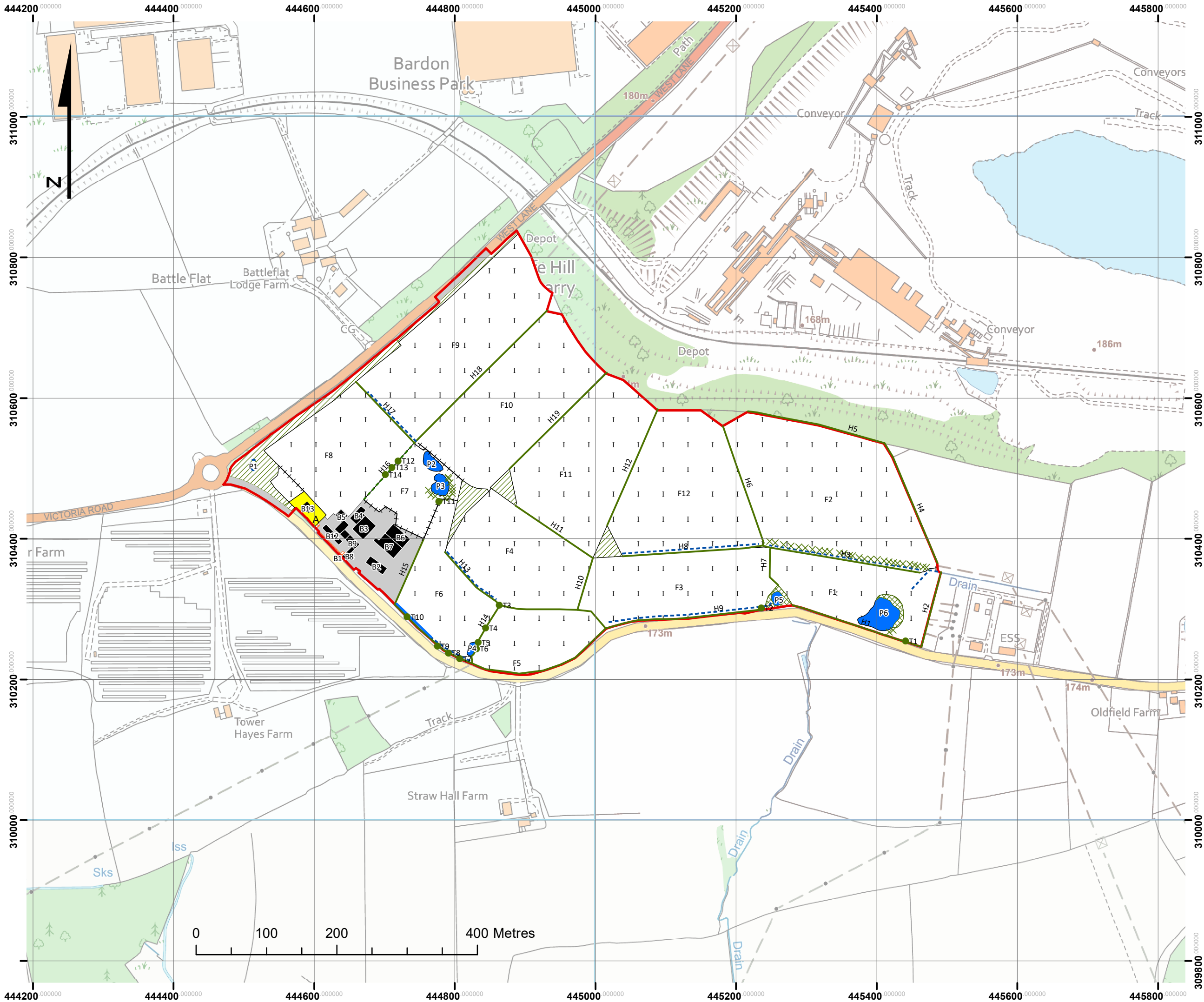
## **7. IMPLEMENTATION TIMETABLE**

- 7.1 Management post-construction will be undertaken by the appointed maintenance contractors appointed by the facilities manager on an annual basis. The maintenance of the habitats created will be undertaken by landscape contractor responsible for the implementation of the works for the first year after practical completion.
- 7.2 The maintenance and management schedule outlined in the 'Soft landscape Works Maintenance and Management Proposals – 10 Years' for land at Wood Farm produced by BCA Design (Reference: 2289-22-RP01 10yr M&M; Jan 2023) should be followed.
- 7.3 The BCA Management plan will be reviewed prior to the end of the 10 year management term outlined in the current document and a new maintenance and management plan produced for the next ten years of entire remaining management term (20years).
- 7.4 Enhancements installed in regard to birds, bats reptiles and amphibians should be checked from the ground annually for damage. Any boxes that are missing or damaged should be replace on a like for like basis during the winter months (December-February).

## **8. APPENDICES**

## **Appendix 1: Preliminary Ecological Appraisal (Baseline) Habitat Map**

Ref: 19-1485 (V3)



### Legend:

- Site Boundary - 32.50 ha
- Woodland Broad-leaved Plantation - 1.07 ha
- Scattered Tree
- Dense Scrub - 0.10 ha
- Scattered Scrub
- Improved Grassland - 29.54 ha
- Amenity Grassland - 0.11 ha
- Introduced Shrub - 0.02 ha
- Pond - 0.33 ha
- Pond (Dry) - 0.01 ha
- Hardstanding - 0.96 ha
- Building - 0.36 ha
- Intact Hedgerow Species Poor - 3371.21m
- Defunct Hedgerow Species Poor - 108.17m
- Wet Ditch - 67.63m
- Dry Ditch - 970.78m
- Fence - 317.81m

| REVISIONS: |          |           |
|------------|----------|-----------|
| DATE:      | VERSION: | INITIALS: |
|            |          |           |

## NICHOLSONS

Leading solutions for the natural environment

TITLE: Ecological Phase 1 Habitat Survey

PROJECT/SITE: Land at Wood Farm, Stanton Lane  
The Main Site

CLIENT: Wood Farm Holdings Ltd

MAP REF: 3872/03/19-1485

VERSION: v3

DATE: 22/03/23 SCALE: 1:5,000 @A3

APPROVED BY: NL PRODUCED BY: SF

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## **Appendix 2: Baseline Habitat Condition Sheets**

Ref: 22-1755 (V1)

|                                                                                     |                                                                                                                                                                                                                                                         |                                                                                                                |                            |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------|
| <b>Condition Sheet: GRASSLAND Habitat Type (low distinctiveness)</b>                |                                                                                                                                                                                                                                                         |                                                                                                                |                            |
| <b>UKHab Habitat Type(s)</b>                                                        |                                                                                                                                                                                                                                                         |                                                                                                                |                            |
| <b>Grassland - Modified grassland</b>                                               |                                                                                                                                                                                                                                                         |                                                                                                                |                            |
| <b>Site name/location</b>                                                           | Wood Farm                                                                                                                                                                                                                                               | <b>Onsite/offsite</b>                                                                                          | Onsite                     |
| <b>Central grid reference of habitat</b>                                            |                                                                                                                                                                                                                                                         | <b>Unique polygon reference</b>                                                                                |                            |
| <b>Limitations (if applicable)</b>                                                  |                                                                                                                                                                                                                                                         | <b>Metric 3.0 survey reference (if condition assessment of this polygon relates to a wider habitat survey)</b> |                            |
| <b>Habitat Description</b>                                                          |                                                                                                                                                                                                                                                         |                                                                                                                |                            |
| Amenity grassland forming front garden of farm house                                |                                                                                                                                                                                                                                                         |                                                                                                                |                            |
| <a href="#">See UKHab</a>                                                           |                                                                                                                                                                                                                                                         |                                                                                                                |                            |
| <b>Condition Assessment Criteria</b>                                                |                                                                                                                                                                                                                                                         | <b>Condition Achieved (Y/N)</b>                                                                                | <b>Notes/Justification</b> |
| 1                                                                                   | There must be 6-8 species per m2. If a grassland has 9 or more species per m2 it should be classified as a medium distinctiveness grassland habitat type.<br><b>NB - this criterion is essential for achieving moderate condition.</b>                  | N                                                                                                              |                            |
| 2                                                                                   | Sward height is varied (at least 20% of the sward is less than 7 cm and at least 20% is more than 7 cm) creating microclimates which provide opportunities for insects, birds and small mammals to live and breed.                                      | N                                                                                                              |                            |
| 3                                                                                   | Some scattered scrub (including bramble) may be present, but scrub accounts for less than 20% of total grassland area. Note - patches of shrubs with continuous (more than 90%) cover should be classified as the relevant scrub habitat type.          | Y                                                                                                              |                            |
| 4                                                                                   | Physical damage is evident in less than 5% of total grassland area. Examples of physical damage include excessive poaching, damage from machinery use or storage, erosion caused by high levels of access, or any other damaging management activities. | Y                                                                                                              |                            |
| 5                                                                                   | Cover of bare ground is between 1% and 10%, including localised areas (for example, a concentration of rabbit warrens).                                                                                                                                 | Y                                                                                                              |                            |
| 6                                                                                   | Cover of bracken less than 20%.                                                                                                                                                                                                                         | Y                                                                                                              |                            |
| 7                                                                                   | There is an absence of invasive non-native species (as listed on Schedule 9 of WCA, 1981).                                                                                                                                                              | Y                                                                                                              |                            |
| <b>Essential criterion 1 achieved (Y/N)</b>                                         |                                                                                                                                                                                                                                                         |                                                                                                                | N                          |
| <b>Number of criteria passed</b>                                                    |                                                                                                                                                                                                                                                         |                                                                                                                | 5                          |
| <b>Condition Assessment Result</b>                                                  | <b>Condition Assessment Score</b>                                                                                                                                                                                                                       | <b>Score Achieved * / ✓</b>                                                                                    |                            |
| Passes 6 or 7 of 7 criteria including passing essential criterion 1                 | Good (3)                                                                                                                                                                                                                                                |                                                                                                                |                            |
| Passes 4 or 5 of 7 criteria including passing essential criterion 1                 | Moderate (2)                                                                                                                                                                                                                                            |                                                                                                                |                            |
| Passes 0, 1, 2 or 3 of 7 criteria; OR 4, 5 or 6 of criteria but failing criterion 1 | Poor (1)                                                                                                                                                                                                                                                | Yes                                                                                                            |                            |
| <b>Suggested enhancement interventions to improve condition score</b>               |                                                                                                                                                                                                                                                         |                                                                                                                |                            |
|                                                                                     |                                                                                                                                                                                                                                                         |                                                                                                                |                            |
| <b>Notes</b>                                                                        |                                                                                                                                                                                                                                                         |                                                                                                                |                            |
|                                                                                     |                                                                                                                                                                                                                                                         |                                                                                                                |                            |

| Condition sheet: HEDGEROW Habitat Types                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------|
| UKHab Habitat Type                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |
| Native hedgerow<br>Native hedgerow - associated with bank or ditch<br>Native hedgerow with trees<br>Native hedgerow with trees - associated with bank or ditch<br>Native species rich hedgerow<br>Native species rich hedgerow - associated with bank or ditch<br>Native species rich hedgerow with trees<br>Native species rich hedgerow with trees - associated with bank or ditch                    |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |
| Site name/Location                                                                                                                                                                                                                                                                                                                                                                                      | wood farm                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Onsite/offsite           | onsite              |
| Habitat's central grid reference                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                        | Unique polygon reference(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                          |                     |
| Limitations (if applicable)                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                        | Metric 3.1 survey reference (if condition assessment of this polygon relates to a wider habitat survey)                                                                                                                                                                                                                                                                                                                                                                                                      |                          |                     |
| Habitat Description                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |
| Native hedgerow with trees (H3, H4, H6, H8,H18)                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |
| See Table TS1-3 of the Technical Supplement.                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |
| Condition Assessment Criteria                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |
| A series of ten attributes, representing key physical characteristics, are used for this assessment. The attributes, and the minimum criteria for achieving a favourable condition in each, are defined. The attributes use similar favourable condition criteria to the Hedgerow Survey Handbook and the handbook is the recommended source of reference for assessing individual hedgerow attributes. |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |
| Hedgerow favourable condition attributes                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |
| Attributes and functional groupings (A, B, C, D & E)                                                                                                                                                                                                                                                                                                                                                    | Criteria (the minimum requirements for 'favourable condition'                                                                                                                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Condition Achieved (Y/N) | Notes/Justification |
| Core groups - applicable to all hedgerow types                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |
| A1. Height                                                                                                                                                                                                                                                                                                                                                                                              | >1.5 m average along length                                                                                                                                                            | The average height of woody growth estimated from base of stem to the top of shoots, excluding any bank beneath the hedgerow, any gaps or isolated trees.<br><br>Newly laid or coppiced hedgerows are indicative of good management and pass this criterion for up to a maximum of four years (if undertaken according to good practice).<br><br>A newly planted hedgerow does not pass this criterion (unless it is > 1.5 m height).                                                                        | Y                        |                     |
| A2. Width                                                                                                                                                                                                                                                                                                                                                                                               | >1.5 m average along length                                                                                                                                                            | The average width of woody growth estimated at the widest point of the canopy, excluding gaps and isolated trees.<br><br>Outgrowths (e.g. blackthorn suckers) are only included in the width estimate when they >0.5 m in height.<br><br>Laid, coppiced, cut and newly planted hedgerows are indicative of good management and pass this criterion for up to a maximum of four years (if undertaken according to good practice*).                                                                            | Y                        |                     |
| B1. Gap - hedge base                                                                                                                                                                                                                                                                                                                                                                                    | Gap between ground and base of canopy <0.5 m for >90% of length (unless 'line of trees')                                                                                               | This is the vertical gappiness of the woody component of the hedgerow, and its distance from the ground to the lowest leafy growth.<br><br>Certain exceptions to this criterion are acceptable (see page 65 of the Hedgerow Survey Handbook).                                                                                                                                                                                                                                                                | Y                        |                     |
| B2. Gap - hedge canopy continuity                                                                                                                                                                                                                                                                                                                                                                       | Gaps make up <10% of total length and No canopy gaps >5 m                                                                                                                              | This is the horizontal gappiness of the woody component of the hedgerow. Gaps are complete breaks in the woody canopy (no matter how small).<br><br>Access points and gates contribute to the overall gappiness, but are not subject to the >5 m criterion (as this is the typical size of a gate).                                                                                                                                                                                                          | Y                        |                     |
| C1. Undisturbed ground and perennial vegetation                                                                                                                                                                                                                                                                                                                                                         | >1 m width of undisturbed ground with perennial herbaceous vegetation for >90% of length: - measured from outer edge of hedgerow, and - is present on one side of the hedge (at least) | This is the level of disturbance (excluding wildlife disturbance) at the base of the hedge.<br><br>Undisturbed ground should be present for at least 90% of the hedgerow length, greater than 1m in width and must be present along at least one side of the hedge.<br><br>This criterion recognises the value of the hedge base as a boundary habitat with the capacity to support a wide range of species. Cultivation, heavily trodden footpaths, poached ground etc. can limit available habitat niches. | N                        |                     |
| C2. Undesirable perennial vegetation                                                                                                                                                                                                                                                                                                                                                                    | Plant species indicative of nutrient enrichment of soils dominate <20% cover of the area of undisturbed ground                                                                         | The indicator species used are nettles ( <i>Urtica</i> spp.), cleavers ( <i>Galium aparine</i> ) and docks ( <i>Rumex</i> spp.). Their presence, either singly or together, should not exceed the 20% cover threshold.                                                                                                                                                                                                                                                                                       | N                        |                     |
| D1. Invasive and neophyte species                                                                                                                                                                                                                                                                                                                                                                       | >90% of the hedgerow and undisturbed ground is free of invasive non-native and neophyte species                                                                                        | Neophytes are plants that have naturalised in the UK since AD 1500. For information on neophytes see the JNCC website and for information on invasive non-native species see the GB Non-Native Secretariat website.                                                                                                                                                                                                                                                                                          | Y                        |                     |
| D2. Current damage                                                                                                                                                                                                                                                                                                                                                                                      | >90% of the hedgerow or undisturbed ground is free of damage caused by human activities                                                                                                | This criterion addresses damaging activities that may have led to or lead to deterioration in other attributes.<br><br>This could include evidence of pollution, piles of manure or rubble, or inappropriate management practices (e.g. excessive hedge cutting).                                                                                                                                                                                                                                            | Y                        |                     |
| Additional group - applicable to hedgerows with trees only                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |

|                 |                                                                                                                                                                                                                                                                  |                                                                                                                                                    |   |  |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|---|--|
| E1. Tree age    | At least one mature tree per 30m stretch of hedgerow. A mature tree is one that is at least 2/3 expected fully mature height for the species.                                                                                                                    | This criterion addresses if there are sufficient mature trees (within the scope of planning timescales) which are of higher value to biodiversity. | N |  |
| E2. Tree health | At least 95% of hedgerow trees are in a healthy condition (excluding veteran features valuable for wildlife). There is little or no evidence of an adverse impact on tree health by damage from livestock or wild animals, pests or diseases, or human activity. | This criterion identifies if the trees are subject to damage which compromises the survival and health of the individual specimens.                | Y |  |

Each attribute is assigned to one of five functional groups (A – E), as indicated in Table TS1-2 and the condition of a hedgerow is assessed according to the number of attributes from these functional groups which pass or fail the ‘favourable condition’ criteria according to the approach set out in Table TS1-3.

The hedgerow condition assessment generates a weighting (score) ranging from 1-3, which is used within the biodiversity metric 3.1. The scores for each are set out in tables TS1-3 and TS1-4 below.

**TABLE TS1-3:** Hedgerow condition assessment and weighting

| Condition categories for hedgerows without trees               |                                                                                                                                                                                             |                   |
|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| Category                                                       | Maximum number of attributes that can fail to meet 'favourable condition' criteria in Table TS1-2                                                                                           | Weighting (score) |
| Good                                                           | No more than 2 failures in total;<br><b>AND</b><br>No more than 1 in any functional group.                                                                                                  | 3                 |
| Moderate                                                       | No more than 4 failures in total;<br><b>AND</b><br><u>Does not fail both attributes</u> in more than one functional group (e.g. fails attributes A1, A2, B1 & C2 = Moderate condition).     | 2                 |
| Poor                                                           | Fails a total of more than 4 attributes;<br><b>OR</b><br><u>Fails both attributes</u> in more than one functional group (e.g. fails attributes A1, A2, B1 & B2 = Poor condition).           | 1                 |
| Score achieved:                                                |                                                                                                                                                                                             |                   |
| Condition categories for hedgerows with trees                  |                                                                                                                                                                                             |                   |
| Category                                                       | Maximum number of attributes that can fail to meet 'favourable condition' criteria in Table TS1-2                                                                                           | Weighting (score) |
| Good                                                           | No more than 2 failures in total;<br><b>AND</b><br>No more than 1 failure in any functional group.                                                                                          | 3                 |
| Moderate                                                       | No more than 5 failures in total;<br><b>AND</b><br><u>Does not fail both attributes</u> in more than one functional group (e.g. fails attributes A1, A2, B1, C2 & E1 = Moderate condition). | 2                 |
| Poor                                                           | Fails a total of more than 5 attributes; <b>OR</b><br><u>Fails both attributes</u> in more than one functional group (e.g. fails attributes A1, A2, B1 & B2 = Poor condition).              | 1                 |
| Score achieved:                                                | Moderate                                                                                                                                                                                    |                   |
| Suggested enhancement interventions to improve condition score |                                                                                                                                                                                             |                   |
|                                                                |                                                                                                                                                                                             |                   |

| Condition sheet: HEDGEROW Habitat Types                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------|
| UKHab Habitat Type                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |
| Native hedgerow<br>Native hedgerow - associated with bank or ditch<br>Native hedgerow with trees<br>Native hedgerow with trees - associated with bank or ditch<br>Native species rich hedgerow<br>Native species rich hedgerow - associated with bank or ditch<br>Native species rich hedgerow with trees<br>Native species rich hedgerow with trees - associated with bank or ditch                    |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |
| Site name/Location                                                                                                                                                                                                                                                                                                                                                                                      | wood farm                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Onsite/offsite           | onsite              |
| Habitat's central grid reference                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                        | Unique polygon reference(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                          |                     |
| Limitations (if applicable)                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                        | Metric 3.1 survey reference (if condition assessment of this polygon relates to a wider habitat survey)                                                                                                                                                                                                                                                                                                                                                                                                      |                          |                     |
| Habitat Description                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |
| Native hedgerows (H1,H2,H5,H7,H9-H15,H17,H19)                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |
| See Table TS1-3 of the Technical Supplement.                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |
| Condition Assessment Criteria                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |
| A series of ten attributes, representing key physical characteristics, are used for this assessment. The attributes, and the minimum criteria for achieving a favourable condition in each, are defined. The attributes use similar favourable condition criteria to the Hedgerow Survey Handbook and the handbook is the recommended source of reference for assessing individual hedgerow attributes. |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |
| Hedgerow favourable condition attributes                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |
| Attributes and functional groupings (A, B, C, D & E)                                                                                                                                                                                                                                                                                                                                                    | Criteria (the minimum requirements for 'favourable condition'                                                                                                                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Condition Achieved (Y/N) | Notes/Justification |
| Core groups - applicable to all hedgerow types                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |
| A1. Height                                                                                                                                                                                                                                                                                                                                                                                              | >1.5 m average along length                                                                                                                                                            | The average height of woody growth estimated from base of stem to the top of shoots, excluding any bank beneath the hedgerow, any gaps or isolated trees.<br><br>Newly laid or coppiced hedgerows are indicative of good management and pass this criterion for up to a maximum of four years (if undertaken according to good practice).<br><br>A newly planted hedgerow does not pass this criterion (unless it is > 1.5 m height).                                                                        | Y                        |                     |
| A2. Width                                                                                                                                                                                                                                                                                                                                                                                               | >1.5 m average along length                                                                                                                                                            | The average width of woody growth estimated at the widest point of the canopy, excluding gaps and isolated trees.<br><br>Outgrowths (e.g. blackthorn suckers) are only included in the width estimate when they >0.5 m in height.<br><br>Laid, coppiced, cut and newly planted hedgerows are indicative of good management and pass this criterion for up to a maximum of four years (if undertaken according to good practice*).                                                                            | Y                        |                     |
| B1. Gap - hedge base                                                                                                                                                                                                                                                                                                                                                                                    | Gap between ground and base of canopy <0.5 m for >90% of length (unless 'line of trees')                                                                                               | This is the vertical gappiness of the woody component of the hedgerow, and its distance from the ground to the lowest leafy growth.<br><br>Certain exceptions to this criterion are acceptable (see page 65 of the Hedgerow Survey Handbook).                                                                                                                                                                                                                                                                | Y                        |                     |
| B2. Gap - hedge canopy continuity                                                                                                                                                                                                                                                                                                                                                                       | Gaps make up <10% of total length and No canopy gaps >5 m                                                                                                                              | This is the horizontal gappiness of the woody component of the hedgerow. Gaps are complete breaks in the woody canopy (no matter how small).<br><br>Access points and gates contribute to the overall gappiness, but are not subject to the >5 m criterion (as this is the typical size of a gate).                                                                                                                                                                                                          | Y                        |                     |
| C1. Undisturbed ground and perennial vegetation                                                                                                                                                                                                                                                                                                                                                         | >1 m width of undisturbed ground with perennial herbaceous vegetation for >90% of length: - measured from outer edge of hedgerow, and - is present on one side of the hedge (at least) | This is the level of disturbance (excluding wildlife disturbance) at the base of the hedge.<br><br>Undisturbed ground should be present for at least 90% of the hedgerow length, greater than 1m in width and must be present along at least one side of the hedge.<br><br>This criterion recognises the value of the hedge base as a boundary habitat with the capacity to support a wide range of species. Cultivation, heavily trodden footpaths, poached ground etc. can limit available habitat niches. | N                        |                     |
| C2. Undesirable perennial vegetation                                                                                                                                                                                                                                                                                                                                                                    | Plant species indicative of nutrient enrichment of soils dominate <20% cover of the area of undisturbed ground                                                                         | The indicator species used are nettles ( <i>Urtica</i> spp.), cleavers ( <i>Galium aparine</i> ) and docks ( <i>Rumex</i> spp.). Their presence, either singly or together, should not exceed the 20% cover threshold.                                                                                                                                                                                                                                                                                       | N                        |                     |
| D1. Invasive and neophyte species                                                                                                                                                                                                                                                                                                                                                                       | >90% of the hedgerow and undisturbed ground is free of invasive non-native and neophyte species                                                                                        | Neophytes are plants that have naturalised in the UK since AD 1500. For information on neophytes see the JNCC website and for information on invasive non-native species see the GB Non-Native Secretariat website.                                                                                                                                                                                                                                                                                          | Y                        |                     |
| D2. Current damage                                                                                                                                                                                                                                                                                                                                                                                      | >90% of the hedgerow or undisturbed ground is free of damage caused by human activities                                                                                                | This criterion addresses damaging activities that may have led to or lead to deterioration in other attributes.<br><br>This could include evidence of pollution, piles of manure or rubble, or inappropriate management practices (e.g. excessive hedge cutting).                                                                                                                                                                                                                                            | N                        |                     |
| Additional group - applicable to hedgerows with trees only                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |

|                 |                                                                                                                                                                                                                                                                  |                                                                                                                                                    |  |  |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| E1. Tree age    | At least one mature tree per 30m stretch of hedgerow. A mature tree is one that is at least 2/3 expected fully mature height for the species.                                                                                                                    | This criterion addresses if there are sufficient mature trees (within the scope of planning timescales) which are of higher value to biodiversity. |  |  |
| E2. Tree health | At least 95% of hedgerow trees are in a healthy condition (excluding veteran features valuable for wildlife). There is little or no evidence of an adverse impact on tree health by damage from livestock or wild animals, pests or diseases, or human activity. | This criterion identifies if the trees are subject to damage which compromises the survival and health of the individual specimens.                |  |  |

Each attribute is assigned to one of five functional groups (A – E), as indicated in Table TS1-2 and the condition of a hedgerow is assessed according to the number of attributes from these functional groups which pass or fail the 'favourable condition' criteria according to the approach set out in Table TS1-3.

The hedgerow condition assessment generates a weighting (score) ranging from 1-3, which is used within the biodiversity metric 3.1. The scores for each are set out in tables TS1-3 and TS1-4 below.

**TABLE TS1-3:** Hedgerow condition assessment and weighting

| Condition categories for hedgerows without trees               |                                                                                                                                                                                             |                   |
|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| Category                                                       | Maximum number of attributes that can fail to meet 'favourable condition' criteria in Table TS1-2                                                                                           | Weighting (score) |
| Good                                                           | No more than 2 failures in total;<br><b>AND</b><br>No more than 1 in any functional group.                                                                                                  | 3                 |
| Moderate                                                       | No more than 4 failures in total;<br><b>AND</b><br><u>Does not fail both attributes</u> in more than one functional group (e.g. fails attributes A1, A2, B1 & C2 = Moderate condition).     | 2                 |
| Poor                                                           | Fails a total of more than 4 attributes;<br><b>OR</b><br><u>Fails both attributes</u> in more than one functional group (e.g. fails attributes A1, A2, B1 & B2 = Poor condition).           | 1                 |
| Score achieved:                                                | Moderate                                                                                                                                                                                    |                   |
| Condition categories for hedgerows with trees                  |                                                                                                                                                                                             |                   |
| Category                                                       | Maximum number of attributes that can fail to meet 'favourable condition' criteria in Table TS1-2                                                                                           | Weighting (score) |
| Good                                                           | No more than 2 failures in total;<br><b>AND</b><br>No more than 1 failure in any functional group.                                                                                          | 3                 |
| Moderate                                                       | No more than 5 failures in total;<br><b>AND</b><br><u>Does not fail both attributes</u> in more than one functional group (e.g. fails attributes A1, A2, B1, C2 & E1 = Moderate condition). | 2                 |
| Poor                                                           | Fails a total of more than 5 attributes; <b>OR</b><br><u>Fails both attributes</u> in more than one functional group (e.g. fails attributes A1, A2, B1 & B2 = Poor condition).              | 1                 |
| Score achieved:                                                |                                                                                                                                                                                             |                   |
| Suggested enhancement interventions to improve condition score |                                                                                                                                                                                             |                   |
|                                                                |                                                                                                                                                                                             |                   |

| Condition sheet: HEDGEROW Habitat Types                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------|
| UKHab Habitat Type                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |
| <b>Native hedgerow</b><br>Native hedgerow - associated with bank or ditch<br>Native hedgerow with trees<br>Native hedgerow with trees - associated with bank or ditch<br>Native species rich hedgerow<br>Native species rich hedgerow - associated with bank or ditch<br>Native species rich hedgerow with trees<br>Native species rich hedgerow with trees - associated with bank or ditch             |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |
| Site name/Location                                                                                                                                                                                                                                                                                                                                                                                      | wood farm                                                                                                                                                                              | Onsite/offsite                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | onsite                   |                     |
| Habitat's central grid reference                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                        | Unique polygon reference(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                          |                     |
| Limitations (if applicable)                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                        | Metric 3.1 survey reference (if condition assessment of this polygon relates to a wider habitat survey)                                                                                                                                                                                                                                                                                                                                                                                                      |                          |                     |
| Habitat Description                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |
| native defunct hedgerow (H16)                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |
| See Table TS1-3 of the Technical Supplement.                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |
| Condition Assessment Criteria                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |
| A series of ten attributes, representing key physical characteristics, are used for this assessment. The attributes, and the minimum criteria for achieving a favourable condition in each, are defined. The attributes use similar favourable condition criteria to the Hedgerow Survey Handbook and the handbook is the recommended source of reference for assessing individual hedgerow attributes. |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |
| Hedgerow favourable condition attributes                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |
| Attributes and functional groupings (A, B, C, D & E)                                                                                                                                                                                                                                                                                                                                                    | Criteria (the minimum requirements for 'favourable condition'                                                                                                                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Condition Achieved (Y/N) | Notes/Justification |
| Core groups - applicable to all hedgerow types                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |
| A1. Height                                                                                                                                                                                                                                                                                                                                                                                              | >1.5 m average along length                                                                                                                                                            | The average height of woody growth estimated from base of stem to the top of shoots, excluding any bank beneath the hedgerow, any gaps or isolated trees.<br><br>Newly laid or coppiced hedgerows are indicative of good management and pass this criterion for up to a maximum of four years (if undertaken according to good practice).<br><br>A newly planted hedgerow does not pass this criterion (unless it is > 1.5 m height).                                                                        | N                        |                     |
| A2. Width                                                                                                                                                                                                                                                                                                                                                                                               | >1.5 m average along length                                                                                                                                                            | The average width of woody growth estimated at the widest point of the canopy, excluding gaps and isolated trees.<br><br>Outgrowths (e.g. blackthorn suckers) are only included in the width estimate when they >0.5 m in height.<br><br>Laid, coppiced, cut and newly planted hedgerows are indicative of good management and pass this criterion for up to a maximum of four years (if undertaken according to good practice*).                                                                            | N                        |                     |
| B1. Gap - hedge base                                                                                                                                                                                                                                                                                                                                                                                    | Gap between ground and base of canopy <0.5 m for >90% of length (unless 'line of trees')                                                                                               | This is the vertical gappiness of the woody component of the hedgerow, and its distance from the ground to the lowest leafy growth.<br><br>Certain exceptions to this criterion are acceptable (see page 65 of the Hedgerow Survey Handbook).                                                                                                                                                                                                                                                                | N                        |                     |
| B2. Gap - hedge canopy continuity                                                                                                                                                                                                                                                                                                                                                                       | Gaps make up <10% of total length and No canopy gaps >5 m                                                                                                                              | This is the horizontal gappiness of the woody component of the hedgerow. Gaps are complete breaks in the woody canopy (no matter how small).<br><br>Access points and gates contribute to the overall gappiness, but are not subject to the >5 m criterion (as this is the typical size of a gate).                                                                                                                                                                                                          | N                        |                     |
| C1. Undisturbed ground and perennial vegetation                                                                                                                                                                                                                                                                                                                                                         | >1 m width of undisturbed ground with perennial herbaceous vegetation for >90% of length: - measured from outer edge of hedgerow, and - is present on one side of the hedge (at least) | This is the level of disturbance (excluding wildlife disturbance) at the base of the hedge.<br><br>Undisturbed ground should be present for at least 90% of the hedgerow length, greater than 1m in width and must be present along at least one side of the hedge.<br><br>This criterion recognises the value of the hedge base as a boundary habitat with the capacity to support a wide range of species. Cultivation, heavily trodden footpaths, poached ground etc. can limit available habitat niches. | N                        |                     |
| C2. Undesirable perennial vegetation                                                                                                                                                                                                                                                                                                                                                                    | Plant species indicative of nutrient enrichment of soils dominate <20% cover of the area of undisturbed ground                                                                         | The indicator species used are nettles ( <i>Urtica</i> spp.), cleavers ( <i>Galium aparine</i> ) and docks ( <i>Rumex</i> spp.). Their presence, either singly or together, should not exceed the 20% cover threshold.                                                                                                                                                                                                                                                                                       | Y                        |                     |
| D1. Invasive and neophyte species                                                                                                                                                                                                                                                                                                                                                                       | >90% of the hedgerow and undisturbed ground is free of invasive non-native and neophyte species                                                                                        | Neophytes are plants that have naturalised in the UK since AD 1500. For information on neophytes see the JNCC website and for information on invasive non-native species see the GB Non-Native Secretariat website.                                                                                                                                                                                                                                                                                          | Y                        |                     |
| D2. Current damage                                                                                                                                                                                                                                                                                                                                                                                      | >90% of the hedgerow or undisturbed ground is free of damage caused by human activities                                                                                                | This criterion addresses damaging activities that may have led to or lead to deterioration in other attributes.<br><br>This could include evidence of pollution, piles of manure or rubble, or inappropriate management practices (e.g. excessive hedge cutting).                                                                                                                                                                                                                                            | N                        |                     |
| Additional group - applicable to hedgerows with trees only                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |

|                 |                                                                                                                                                                                                                                                                  |                                                                                                                                                    |  |  |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| E1. Tree age    | At least one mature tree per 30m stretch of hedgerow. A mature tree is one that is at least 2/3 expected fully mature height for the species.                                                                                                                    | This criterion addresses if there are sufficient mature trees (within the scope of planning timescales) which are of higher value to biodiversity. |  |  |
| E2. Tree health | At least 95% of hedgerow trees are in a healthy condition (excluding veteran features valuable for wildlife). There is little or no evidence of an adverse impact on tree health by damage from livestock or wild animals, pests or diseases, or human activity. | This criterion identifies if the trees are subject to damage which compromises the survival and health of the individual specimens.                |  |  |

Each attribute is assigned to one of five functional groups (A – E), as indicated in Table TS1-2 and the condition of a hedgerow is assessed according to the number of attributes from these functional groups which pass or fail the 'favourable condition' criteria according to the approach set out in Table TS1-3.

The hedgerow condition assessment generates a weighting (score) ranging from 1-3, which is used within the biodiversity metric 3.1. The scores for each are set out in tables TS1-3 and TS1-4 below.

**TABLE TS1-3:** Hedgerow condition assessment and weighting

| Condition categories for hedgerows without trees               |                                                                                                                                                                                             |                   |
|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| Category                                                       | Maximum number of attributes that can fail to meet 'favourable condition' criteria in Table TS1-2                                                                                           | Weighting (score) |
| Good                                                           | No more than 2 failures in total;<br><b>AND</b><br>No more than 1 in any functional group.                                                                                                  | 3                 |
| Moderate                                                       | No more than 4 failures in total;<br><b>AND</b><br><u>Does not fail both attributes</u> in more than one functional group (e.g. fails attributes A1, A2, B1 & C2 = Moderate condition).     | 2                 |
| Poor                                                           | Fails a total of more than 4 attributes;<br><b>OR</b><br><u>Fails both attributes</u> in more than one functional group (e.g. fails attributes A1, A2, B1 & B2 = Poor condition).           | 1                 |
| Score achieved:                                                | Poor                                                                                                                                                                                        |                   |
| Condition categories for hedgerows with trees                  |                                                                                                                                                                                             |                   |
| Category                                                       | Maximum number of attributes that can fail to meet 'favourable condition' criteria in Table TS1-2                                                                                           | Weighting (score) |
| Good                                                           | No more than 2 failures in total;<br><b>AND</b><br>No more than 1 failure in any functional group.                                                                                          | 3                 |
| Moderate                                                       | No more than 5 failures in total;<br><b>AND</b><br><u>Does not fail both attributes</u> in more than one functional group (e.g. fails attributes A1, A2, B1, C2 & E1 = Moderate condition). | 2                 |
| Poor                                                           | Fails a total of more than 5 attributes; <b>OR</b><br><u>Fails both attributes</u> in more than one functional group (e.g. fails attributes A1, A2, B1 & B2 = Poor condition).              | 1                 |
| Score achieved:                                                |                                                                                                                                                                                             |                   |
| Suggested enhancement interventions to improve condition score |                                                                                                                                                                                             |                   |
|                                                                |                                                                                                                                                                                             |                   |

| Condition Sheet: POND Habitat Type                                                                                                                                             |                                                                                                                                                                                    |                                                                                                         |                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------|
| UKHab Habitat Type(s)                                                                                                                                                          |                                                                                                                                                                                    |                                                                                                         |                     |
| Lakes - Ponds (priority habitat)                                                                                                                                               |                                                                                                                                                                                    |                                                                                                         |                     |
| Lakes - Ponds (non-priority habitat)                                                                                                                                           |                                                                                                                                                                                    |                                                                                                         |                     |
| Lakes - Temporary lakes, ponds and pools [Use this condition sheet for Temporary ponds and pools, use Lake condition sheet for Temporary lakes ]                               |                                                                                                                                                                                    |                                                                                                         |                     |
| Lakes - Ornamental lake or pond [Use this condition sheet for Ornamental ponds, use Lake condition sheet for Ornamental lakes]                                                 |                                                                                                                                                                                    |                                                                                                         |                     |
| Site name/location                                                                                                                                                             |                                                                                                                                                                                    | Onsite/offsite                                                                                          | Onsite              |
| Central grid reference of habitat                                                                                                                                              |                                                                                                                                                                                    | Unique polygon reference                                                                                |                     |
| Limitations (if applicable)                                                                                                                                                    |                                                                                                                                                                                    | Metric 3.0 survey reference (if condition assessment of this polygon relates to a wider habitat survey) |                     |
| Habitat Description                                                                                                                                                            |                                                                                                                                                                                    |                                                                                                         |                     |
| Pond 2                                                                                                                                                                         |                                                                                                                                                                                    |                                                                                                         |                     |
| <a href="#">See UKHab</a><br>Other than for non-priority ponds, which are those which do not meet either the definition of (i) priority habitat ponds or (ii) ornamental ponds |                                                                                                                                                                                    |                                                                                                         |                     |
| Condition Assessment Criteria                                                                                                                                                  |                                                                                                                                                                                    | Condition Achieved (Y/N)                                                                                | Notes/Justification |
| <b>CORE CRITERIA - applicable to all ponds (woodland<sup>1</sup> and non-woodland):</b>                                                                                        |                                                                                                                                                                                    |                                                                                                         |                     |
| 1                                                                                                                                                                              | The pond is of good water quality, with clear water (low turbidity) indicating no obvious signs of pollution. Turbidity is acceptable if the pond is grazed by livestock.          | Y                                                                                                       |                     |
| 2                                                                                                                                                                              | There is semi-natural habitat (i.e. moderate distinctiveness or above) for at least 10 m from the pond edge.                                                                       | N                                                                                                       |                     |
| 3                                                                                                                                                                              | Less than 10% of the pond is covered with duckweed or filamentous algae.                                                                                                           | Y                                                                                                       |                     |
| 4                                                                                                                                                                              | The pond is not artificially connected to other waterbodies, either via streams, ditches or artificial pipework.                                                                   | Y                                                                                                       |                     |
| 5                                                                                                                                                                              | Pond water levels should be able to fluctuate naturally throughout the year. No obvious dams, pumps or pipework.                                                                   | Y                                                                                                       |                     |
| 6                                                                                                                                                                              | There is an absence of non-native plant and animal species <sup>2</sup> .                                                                                                          | Y                                                                                                       |                     |
| 7                                                                                                                                                                              | The pond is not artificially stocked with fish. If the pond naturally contains fish, it is a native fish assemblage at low densities.                                              | Y                                                                                                       |                     |
| <b>ADDITIONAL CRITERIA - only applicable to non-woodland ponds:</b>                                                                                                            |                                                                                                                                                                                    |                                                                                                         |                     |
| 8                                                                                                                                                                              | In non-woodland ponds, plants, be they emergent, submerged or floating (excluding duckweeds) <sup>3</sup> , should cover at least 50% of the pond area that is less than 3 m deep. | N                                                                                                       |                     |
| 9                                                                                                                                                                              | The surface of non-woodland ponds is no more than 50% shaded by woody bankside species.                                                                                            | Y                                                                                                       |                     |
| Number of criteria passed                                                                                                                                                      |                                                                                                                                                                                    |                                                                                                         | 7                   |
| Condition Assessment Result                                                                                                                                                    | Condition Assessment Score                                                                                                                                                         | Score Achieved x/✓                                                                                      |                     |
| If 8 criteria assessed (woodland ponds):                                                                                                                                       |                                                                                                                                                                                    |                                                                                                         |                     |
| Passes 7 of 7 criteria                                                                                                                                                         | Good (3)                                                                                                                                                                           |                                                                                                         |                     |
| Passes 5 or 6 of 7 criteria                                                                                                                                                    | Moderate (2)                                                                                                                                                                       |                                                                                                         |                     |
| Passes 0, 1, 2, 3 or 4 of 7 criteria                                                                                                                                           | Poor (1)                                                                                                                                                                           |                                                                                                         |                     |
| If 10 criteria assessed (non-woodland ponds):                                                                                                                                  |                                                                                                                                                                                    |                                                                                                         |                     |
| Passes 9 of 9 criteria                                                                                                                                                         | Good (3)                                                                                                                                                                           |                                                                                                         |                     |
| Passes 6, 7 or 8 of 9                                                                                                                                                          | Moderate (2)                                                                                                                                                                       | Yes                                                                                                     |                     |
| Passes 0, 1, 2, 3, 4 or 5 of 9 criteria                                                                                                                                        | Poor (1)                                                                                                                                                                           |                                                                                                         |                     |
| Suggested enhancement interventions to improve condition score                                                                                                                 |                                                                                                                                                                                    |                                                                                                         |                     |
|                                                                                                                                                                                |                                                                                                                                                                                    |                                                                                                         |                     |

| Condition Sheet: POND Habitat Type                                                                                                                |                                                                                                                                                                                    |                                                                                                         |                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------|
| UKHab Habitat Type(s)                                                                                                                             |                                                                                                                                                                                    |                                                                                                         |                     |
| Lakes - Ponds (priority habitat)                                                                                                                  |                                                                                                                                                                                    |                                                                                                         |                     |
| Lakes - Ponds (non-priority habitat)                                                                                                              |                                                                                                                                                                                    |                                                                                                         |                     |
| Lakes - Temporary lakes, ponds and pools [Use this condition sheet for Temporary ponds and pools, use Lake condition sheet for Temporary lakes ]  |                                                                                                                                                                                    |                                                                                                         |                     |
| Lakes - Ornamental lake or pond [Use this condition sheet for Ornamental ponds, use Lake condition sheet for Ornamental lakes]                    |                                                                                                                                                                                    |                                                                                                         |                     |
| Site name/location                                                                                                                                |                                                                                                                                                                                    | Onsite/offsite                                                                                          | Onsite              |
| Central grid reference of habitat                                                                                                                 |                                                                                                                                                                                    | Unique polygon reference                                                                                |                     |
| Limitations (if applicable)                                                                                                                       |                                                                                                                                                                                    | Metric 3.0 survey reference (if condition assessment of this polygon relates to a wider habitat survey) |                     |
| Habitat Description                                                                                                                               |                                                                                                                                                                                    |                                                                                                         |                     |
| Pond 3                                                                                                                                            |                                                                                                                                                                                    |                                                                                                         |                     |
| <a href="#">See UKHab</a>                                                                                                                         |                                                                                                                                                                                    |                                                                                                         |                     |
| Other than for non-priority ponds, which are those which do not meet either the definition of (i) priority habitat ponds or (ii) ornamental ponds |                                                                                                                                                                                    |                                                                                                         |                     |
| Condition Assessment Criteria                                                                                                                     |                                                                                                                                                                                    | Condition Achieved (Y/N)                                                                                | Notes/Justification |
| <b>CORE CRITERIA - applicable to all ponds (woodland<sup>1</sup> and non-woodland):</b>                                                           |                                                                                                                                                                                    |                                                                                                         |                     |
| 1                                                                                                                                                 | The pond is of good water quality, with clear water (low turbidity) indicating no obvious signs of pollution. Turbidity is acceptable if the pond is grazed by livestock.          | Y                                                                                                       |                     |
| 2                                                                                                                                                 | There is semi-natural habitat (i.e. moderate distinctiveness or above) for at least 10 m from the pond edge.                                                                       | N                                                                                                       |                     |
| 3                                                                                                                                                 | Less than 10% of the pond is covered with duckweed or filamentous algae.                                                                                                           | Y                                                                                                       |                     |
| 4                                                                                                                                                 | The pond is not artificially connected to other waterbodies, either via streams, ditches or artificial pipework.                                                                   | Y                                                                                                       |                     |
| 5                                                                                                                                                 | Pond water levels should be able to fluctuate naturally throughout the year. No obvious dams, pumps or pipework.                                                                   | Y                                                                                                       |                     |
| 6                                                                                                                                                 | There is an absence of non-native plant and animal species <sup>2</sup> .                                                                                                          | Y                                                                                                       |                     |
| 7                                                                                                                                                 | The pond is not artificially stocked with fish. If the pond naturally contains fish, it is a native fish assemblage at low densities.                                              | Y                                                                                                       |                     |
| <b>ADDITIONAL CRITERIA - only applicable to non-woodland ponds:</b>                                                                               |                                                                                                                                                                                    |                                                                                                         |                     |
| 8                                                                                                                                                 | In non-woodland ponds, plants, be they emergent, submerged or floating (excluding duckweeds) <sup>3</sup> , should cover at least 50% of the pond area that is less than 3 m deep. | N                                                                                                       |                     |
| 9                                                                                                                                                 | The surface of non-woodland ponds is no more than 50% shaded by woody bankside species.                                                                                            | Y                                                                                                       |                     |
| Number of criteria passed                                                                                                                         |                                                                                                                                                                                    |                                                                                                         | 7                   |
| Condition Assessment Result                                                                                                                       | Condition Assessment Score                                                                                                                                                         | Score Achieved x/✓                                                                                      |                     |
| If 8 criteria assessed (woodland ponds):                                                                                                          |                                                                                                                                                                                    |                                                                                                         |                     |
| Passes 7 of 7 criteria                                                                                                                            | Good (3)                                                                                                                                                                           |                                                                                                         |                     |
| Passes 5 or 6 of 7 criteria                                                                                                                       | Moderate (2)                                                                                                                                                                       |                                                                                                         |                     |
| Passes 0, 1, 2, 3 or 4 of 7 criteria                                                                                                              | Poor (1)                                                                                                                                                                           |                                                                                                         |                     |
| If 10 criteria assessed (non-woodland ponds):                                                                                                     |                                                                                                                                                                                    |                                                                                                         |                     |
| Passes 9 of 9 criteria                                                                                                                            | Good (3)                                                                                                                                                                           |                                                                                                         |                     |
| Passes 6, 7 or 8 of 9                                                                                                                             | Moderate (2)                                                                                                                                                                       | Yes                                                                                                     |                     |
| Passes 0, 1, 2, 3, 4 or 5 of 9 criteria                                                                                                           | Poor (1)                                                                                                                                                                           |                                                                                                         |                     |
| Suggested enhancement interventions to improve condition score                                                                                    |                                                                                                                                                                                    |                                                                                                         |                     |
|                                                                                                                                                   |                                                                                                                                                                                    |                                                                                                         |                     |

| Condition Sheet: POND Habitat Type                                                                                                                |                                                                                                                                                                                    |                                                                                                         |                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------|
| UKHab Habitat Type(s)                                                                                                                             |                                                                                                                                                                                    |                                                                                                         |                     |
| Lakes - Ponds (priority habitat)                                                                                                                  |                                                                                                                                                                                    |                                                                                                         |                     |
| Lakes - Ponds (non-priority habitat)                                                                                                              |                                                                                                                                                                                    |                                                                                                         |                     |
| Lakes - Temporary lakes, ponds and pools [Use this condition sheet for Temporary ponds and pools, use Lake condition sheet for Temporary lakes ]  |                                                                                                                                                                                    |                                                                                                         |                     |
| Lakes - Ornamental lake or pond [Use this condition sheet for Ornamental ponds, use Lake condition sheet for Ornamental lakes]                    |                                                                                                                                                                                    |                                                                                                         |                     |
| Site name/location                                                                                                                                |                                                                                                                                                                                    | Onsite/offsite                                                                                          | Onsite              |
| Central grid reference of habitat                                                                                                                 |                                                                                                                                                                                    | Unique polygon reference                                                                                |                     |
| Limitations (if applicable)                                                                                                                       |                                                                                                                                                                                    | Metric 3.0 survey reference (if condition assessment of this polygon relates to a wider habitat survey) |                     |
| Habitat Description                                                                                                                               |                                                                                                                                                                                    |                                                                                                         |                     |
| Pond 4                                                                                                                                            |                                                                                                                                                                                    |                                                                                                         |                     |
| <a href="#">See UKHab</a>                                                                                                                         |                                                                                                                                                                                    |                                                                                                         |                     |
| Other than for non-priority ponds, which are those which do not meet either the definition of (i) priority habitat ponds or (ii) ornamental ponds |                                                                                                                                                                                    |                                                                                                         |                     |
| Condition Assessment Criteria                                                                                                                     |                                                                                                                                                                                    | Condition Achieved (Y/N)                                                                                | Notes/Justification |
| <b>CORE CRITERIA - applicable to all ponds (woodland<sup>1</sup> and non-woodland):</b>                                                           |                                                                                                                                                                                    |                                                                                                         |                     |
| 1                                                                                                                                                 | The pond is of good water quality, with clear water (low turbidity) indicating no obvious signs of pollution. Turbidity is acceptable if the pond is grazed by livestock.          | Y                                                                                                       |                     |
| 2                                                                                                                                                 | There is semi-natural habitat (i.e. moderate distinctiveness or above) for at least 10 m from the pond edge.                                                                       | N                                                                                                       |                     |
| 3                                                                                                                                                 | Less than 10% of the pond is covered with duckweed or filamentous algae.                                                                                                           | Y                                                                                                       |                     |
| 4                                                                                                                                                 | The pond is not artificially connected to other waterbodies, either via streams, ditches or artificial pipework.                                                                   | Y                                                                                                       |                     |
| 5                                                                                                                                                 | Pond water levels should be able to fluctuate naturally throughout the year. No obvious dams, pumps or pipework.                                                                   | Y                                                                                                       |                     |
| 6                                                                                                                                                 | There is an absence of non-native plant and animal species <sup>2</sup> .                                                                                                          | Y                                                                                                       |                     |
| 7                                                                                                                                                 | The pond is not artificially stocked with fish. If the pond naturally contains fish, it is a native fish assemblage at low densities.                                              | Y                                                                                                       |                     |
| <b>ADDITIONAL CRITERIA - only applicable to non-woodland ponds:</b>                                                                               |                                                                                                                                                                                    |                                                                                                         |                     |
| 8                                                                                                                                                 | In non-woodland ponds, plants, be they emergent, submerged or floating (excluding duckweeds) <sup>3</sup> , should cover at least 50% of the pond area that is less than 3 m deep. | N                                                                                                       |                     |
| 9                                                                                                                                                 | The surface of non-woodland ponds is no more than 50% shaded by woody bankside species.                                                                                            | N                                                                                                       |                     |
| Number of criteria passed                                                                                                                         |                                                                                                                                                                                    |                                                                                                         | 6                   |
| Condition Assessment Result                                                                                                                       | Condition Assessment Score                                                                                                                                                         | Score Achieved x/✓                                                                                      |                     |
| If 8 criteria assessed (woodland ponds):                                                                                                          |                                                                                                                                                                                    |                                                                                                         |                     |
| Passes 7 of 7 criteria                                                                                                                            | Good (3)                                                                                                                                                                           |                                                                                                         |                     |
| Passes 5 or 6 of 7 criteria                                                                                                                       | Moderate (2)                                                                                                                                                                       |                                                                                                         |                     |
| Passes 0, 1, 2, 3 or 4 of 7 criteria                                                                                                              | Poor (1)                                                                                                                                                                           |                                                                                                         |                     |
| If 10 criteria assessed (non-woodland ponds):                                                                                                     |                                                                                                                                                                                    |                                                                                                         |                     |
| Passes 9 of 9 criteria                                                                                                                            | Good (3)                                                                                                                                                                           |                                                                                                         |                     |
| Passes 6, 7 or 8 of 9                                                                                                                             | Moderate (2)                                                                                                                                                                       | Yes                                                                                                     |                     |
| Passes 0, 1, 2, 3, 4 or 5 of 9 criteria                                                                                                           | Poor (1)                                                                                                                                                                           |                                                                                                         |                     |
| Suggested enhancement interventions to improve condition score                                                                                    |                                                                                                                                                                                    |                                                                                                         |                     |
|                                                                                                                                                   |                                                                                                                                                                                    |                                                                                                         |                     |

| Condition Sheet: POND Habitat Type                                                                                                                                             |                                                                                                                                                                                    |                                                                                                         |                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------|
| UKHab Habitat Type(s)                                                                                                                                                          |                                                                                                                                                                                    |                                                                                                         |                     |
| Lakes - Ponds (priority habitat)                                                                                                                                               |                                                                                                                                                                                    |                                                                                                         |                     |
| Lakes - Ponds (non-priority habitat)                                                                                                                                           |                                                                                                                                                                                    |                                                                                                         |                     |
| Lakes - Temporary lakes, ponds and pools [Use this condition sheet for Temporary ponds and pools, use Lake condition sheet for Temporary lakes ]                               |                                                                                                                                                                                    |                                                                                                         |                     |
| Lakes - Ornamental lake or pond [Use this condition sheet for Ornamental ponds, use Lake condition sheet for Ornamental lakes]                                                 |                                                                                                                                                                                    |                                                                                                         |                     |
| Site name/location                                                                                                                                                             |                                                                                                                                                                                    | Onsite/offsite                                                                                          | Onsite              |
| Central grid reference of habitat                                                                                                                                              |                                                                                                                                                                                    | Unique polygon reference                                                                                |                     |
| Limitations (if applicable)                                                                                                                                                    |                                                                                                                                                                                    | Metric 3.0 survey reference (if condition assessment of this polygon relates to a wider habitat survey) |                     |
| Habitat Description                                                                                                                                                            |                                                                                                                                                                                    |                                                                                                         |                     |
| Pond 5                                                                                                                                                                         |                                                                                                                                                                                    |                                                                                                         |                     |
| <a href="#">See UKHab</a><br>Other than for non-priority ponds, which are those which do not meet either the definition of (i) priority habitat ponds or (ii) ornamental ponds |                                                                                                                                                                                    |                                                                                                         |                     |
| Condition Assessment Criteria                                                                                                                                                  |                                                                                                                                                                                    | Condition Achieved (Y/N)                                                                                | Notes/Justification |
| <b>CORE CRITERIA - applicable to all ponds (woodland<sup>1</sup> and non-woodland):</b>                                                                                        |                                                                                                                                                                                    |                                                                                                         |                     |
| 1                                                                                                                                                                              | The pond is of good water quality, with clear water (low turbidity) indicating no obvious signs of pollution. Turbidity is acceptable if the pond is grazed by livestock.          | Y                                                                                                       |                     |
| 2                                                                                                                                                                              | There is semi-natural habitat (i.e. moderate distinctiveness or above) for at least 10 m from the pond edge.                                                                       | N                                                                                                       |                     |
| 3                                                                                                                                                                              | Less than 10% of the pond is covered with duckweed or filamentous algae.                                                                                                           | Y                                                                                                       |                     |
| 4                                                                                                                                                                              | The pond is not artificially connected to other waterbodies, either via streams, ditches or artificial pipework.                                                                   | Y                                                                                                       |                     |
| 5                                                                                                                                                                              | Pond water levels should be able to fluctuate naturally throughout the year. No obvious dams, pumps or pipework.                                                                   | Y                                                                                                       |                     |
| 6                                                                                                                                                                              | There is an absence of non-native plant and animal species <sup>2</sup> .                                                                                                          | Y                                                                                                       |                     |
| 7                                                                                                                                                                              | The pond is not artificially stocked with fish. If the pond naturally contains fish, it is a native fish assemblage at low densities.                                              | Y                                                                                                       |                     |
| <b>ADDITIONAL CRITERIA - only applicable to non-woodland ponds:</b>                                                                                                            |                                                                                                                                                                                    |                                                                                                         |                     |
| 8                                                                                                                                                                              | In non-woodland ponds, plants, be they emergent, submerged or floating (excluding duckweeds) <sup>3</sup> , should cover at least 50% of the pond area that is less than 3 m deep. | N                                                                                                       |                     |
| 9                                                                                                                                                                              | The surface of non-woodland ponds is no more than 50% shaded by woody bankside species.                                                                                            | N                                                                                                       |                     |
| Number of criteria passed                                                                                                                                                      |                                                                                                                                                                                    |                                                                                                         | 6                   |
| Condition Assessment Result                                                                                                                                                    | Condition Assessment Score                                                                                                                                                         | Score Achieved x/✓                                                                                      |                     |
| If 8 criteria assessed (woodland ponds):                                                                                                                                       |                                                                                                                                                                                    |                                                                                                         |                     |
| Passes 7 of 7 criteria                                                                                                                                                         | Good (3)                                                                                                                                                                           |                                                                                                         |                     |
| Passes 5 or 6 of 7 criteria                                                                                                                                                    | Moderate (2)                                                                                                                                                                       |                                                                                                         |                     |
| Passes 0, 1, 2, 3 or 4 of 7 criteria                                                                                                                                           | Poor (1)                                                                                                                                                                           |                                                                                                         |                     |
| If 10 criteria assessed (non-woodland ponds):                                                                                                                                  |                                                                                                                                                                                    |                                                                                                         |                     |
| Passes 9 of 9 criteria                                                                                                                                                         | Good (3)                                                                                                                                                                           |                                                                                                         |                     |
| Passes 6, 7 or 8 of 9                                                                                                                                                          | Moderate (2)                                                                                                                                                                       | Yes                                                                                                     |                     |
| Passes 0, 1, 2, 3, 4 or 5 of 9 criteria                                                                                                                                        | Poor (1)                                                                                                                                                                           |                                                                                                         |                     |
| Suggested enhancement interventions to improve condition score                                                                                                                 |                                                                                                                                                                                    |                                                                                                         |                     |
|                                                                                                                                                                                |                                                                                                                                                                                    |                                                                                                         |                     |

| Condition Sheet: POND Habitat Type                                                                                                                |                                                                                                                                                                                    |                                                                                                         |                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------|
| UKHab Habitat Type(s)                                                                                                                             |                                                                                                                                                                                    |                                                                                                         |                     |
| Lakes - Ponds (priority habitat)                                                                                                                  |                                                                                                                                                                                    |                                                                                                         |                     |
| Lakes - Ponds (non-priority habitat)                                                                                                              |                                                                                                                                                                                    |                                                                                                         |                     |
| Lakes - Temporary lakes, ponds and pools [Use this condition sheet for Temporary ponds and pools, use Lake condition sheet for Temporary lakes ]  |                                                                                                                                                                                    |                                                                                                         |                     |
| Lakes - Ornamental lake or pond [Use this condition sheet for Ornamental ponds, use Lake condition sheet for Ornamental lakes]                    |                                                                                                                                                                                    |                                                                                                         |                     |
| Site name/location                                                                                                                                |                                                                                                                                                                                    | Onsite/offsite                                                                                          | Onsite              |
| Central grid reference of habitat                                                                                                                 |                                                                                                                                                                                    | Unique polygon reference                                                                                |                     |
| Limitations (if applicable)                                                                                                                       |                                                                                                                                                                                    | Metric 3.0 survey reference (if condition assessment of this polygon relates to a wider habitat survey) |                     |
| Habitat Description                                                                                                                               |                                                                                                                                                                                    |                                                                                                         |                     |
| Pond 6                                                                                                                                            |                                                                                                                                                                                    |                                                                                                         |                     |
| <a href="#">See UKHab</a>                                                                                                                         |                                                                                                                                                                                    |                                                                                                         |                     |
| Other than for non-priority ponds, which are those which do not meet either the definition of (i) priority habitat ponds or (ii) ornamental ponds |                                                                                                                                                                                    |                                                                                                         |                     |
| Condition Assessment Criteria                                                                                                                     |                                                                                                                                                                                    | Condition Achieved (Y/N)                                                                                | Notes/Justification |
| <b>CORE CRITERIA - applicable to all ponds (woodland<sup>1</sup> and non-woodland):</b>                                                           |                                                                                                                                                                                    |                                                                                                         |                     |
| 1                                                                                                                                                 | The pond is of good water quality, with clear water (low turbidity) indicating no obvious signs of pollution. Turbidity is acceptable if the pond is grazed by livestock.          | Y                                                                                                       |                     |
| 2                                                                                                                                                 | There is semi-natural habitat (i.e. moderate distinctiveness or above) for at least 10 m from the pond edge.                                                                       | N                                                                                                       |                     |
| 3                                                                                                                                                 | Less than 10% of the pond is covered with duckweed or filamentous algae.                                                                                                           | Y                                                                                                       |                     |
| 4                                                                                                                                                 | The pond is not artificially connected to other waterbodies, either via streams, ditches or artificial pipework.                                                                   | Y                                                                                                       |                     |
| 5                                                                                                                                                 | Pond water levels should be able to fluctuate naturally throughout the year. No obvious dams, pumps or pipework.                                                                   | Y                                                                                                       |                     |
| 6                                                                                                                                                 | There is an absence of non-native plant and animal species <sup>2</sup> .                                                                                                          | Y                                                                                                       |                     |
| 7                                                                                                                                                 | The pond is not artificially stocked with fish. If the pond naturally contains fish, it is a native fish assemblage at low densities.                                              | Y                                                                                                       |                     |
| <b>ADDITIONAL CRITERIA - only applicable to non-woodland ponds:</b>                                                                               |                                                                                                                                                                                    |                                                                                                         |                     |
| 8                                                                                                                                                 | In non-woodland ponds, plants, be they emergent, submerged or floating (excluding duckweeds) <sup>3</sup> , should cover at least 50% of the pond area that is less than 3 m deep. | N                                                                                                       |                     |
| 9                                                                                                                                                 | The surface of non-woodland ponds is no more than 50% shaded by woody bankside species.                                                                                            | Y                                                                                                       |                     |
| Number of criteria passed                                                                                                                         |                                                                                                                                                                                    |                                                                                                         | 7                   |
| Condition Assessment Result                                                                                                                       | Condition Assessment Score                                                                                                                                                         | Score Achieved x/✓                                                                                      |                     |
| If 8 criteria assessed (woodland ponds):                                                                                                          |                                                                                                                                                                                    |                                                                                                         |                     |
| Passes 7 of 7 criteria                                                                                                                            | Good (3)                                                                                                                                                                           |                                                                                                         |                     |
| Passes 5 or 6 of 7 criteria                                                                                                                       | Moderate (2)                                                                                                                                                                       |                                                                                                         |                     |
| Passes 0, 1, 2, 3 or 4 of 7 criteria                                                                                                              | Poor (1)                                                                                                                                                                           |                                                                                                         |                     |
| If 10 criteria assessed (non-woodland ponds):                                                                                                     |                                                                                                                                                                                    |                                                                                                         |                     |
| Passes 9 of 9 criteria                                                                                                                            | Good (3)                                                                                                                                                                           |                                                                                                         |                     |
| Passes 6, 7 or 8 of 9                                                                                                                             | Moderate (2)                                                                                                                                                                       | Yes                                                                                                     |                     |
| Passes 0, 1, 2, 3, 4 or 5 of 9 criteria                                                                                                           | Poor (1)                                                                                                                                                                           |                                                                                                         |                     |
| Suggested enhancement interventions to improve condition score                                                                                    |                                                                                                                                                                                    |                                                                                                         |                     |
|                                                                                                                                                   |                                                                                                                                                                                    |                                                                                                         |                     |

|                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                              |                                 |                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|--------------------------------------------------------------------------------------------------------------------|
| <b>Condition Sheet: SCRUB Habitat Type</b>                                                                                                                                                                                                           |                                                                                                                                                                                                                                                              |                                 |                                                                                                                    |
| <b>UKHab Habitat Type</b>                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                              |                                 |                                                                                                                    |
| Heathland and shrub - Blackthorn scrub<br>Heathland and shrub - Gorse scrub<br>Heathland and shrub - Hawthorn scrub<br>Heathland and shrub - Hazel scrub<br>Heathland and shrub - Mixed scrub<br>Heathland and shrub - Sea buckthorn scrub (Annex 1) |                                                                                                                                                                                                                                                              |                                 |                                                                                                                    |
| <b>Site name/location</b>                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                              | Wood farm                       | <b>Onsite/offsite</b><br>onsite                                                                                    |
| <b>Central grid reference of habitat</b>                                                                                                                                                                                                             |                                                                                                                                                                                                                                                              |                                 | <b>Unique polygon reference</b><br>                                                                                |
| <b>Limitations (if applicable)</b>                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                              |                                 | <b>Metric 3.0 survey reference (if condition assessment of this polygon relates to a wider habitat survey)</b><br> |
| <b>Habitat Description</b>                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                              |                                 |                                                                                                                    |
| Dense scrub associated with several ponds located on site                                                                                                                                                                                            |                                                                                                                                                                                                                                                              |                                 |                                                                                                                    |
| <a href="#">See UKHab</a><br><a href="#">For sea buckthorn scrub see: Habitats Directive Annex 1 definition</a>                                                                                                                                      |                                                                                                                                                                                                                                                              |                                 |                                                                                                                    |
| <b>Condition Assessment Criteria</b>                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                              | <b>Condition Achieved (Y/N)</b> | <b>Notes/Justification</b>                                                                                         |
| 1                                                                                                                                                                                                                                                    | Habitat is representative of UKHab description (where in its natural range). There are at least three woody species, with no one species comprising more than 75% of the cover (except common juniper, sea buckthorn or box, which can be up to 100% cover). | N                               |                                                                                                                    |
| 2                                                                                                                                                                                                                                                    | There is a good age range – all of the following are present: seedlings, young shrubs and mature shrubs.                                                                                                                                                     | N                               |                                                                                                                    |

|                                                                |                                                                                                                                                                                 |                    |   |
|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---|
| 3                                                              | There is an absence of invasive non-native species (as listed on Schedule 9 of WCA, 1981) and species indicative of sub-optimal condition make up less than 5% of ground cover. | Y                  |   |
| 4                                                              | The scrub has a well-developed edge with scattered scrub and tall grassland and/or herbs present between the scrub and adjacent habitat(s).                                     | N                  |   |
| 5                                                              | There are clearings, glades or rides present within the scrub, providing sheltered edges.                                                                                       | N                  |   |
| Number of criteria passed                                      |                                                                                                                                                                                 |                    | 1 |
| Condition Assessment Result                                    | Condition Assessment Score                                                                                                                                                      | Score Achieved x/✓ |   |
| Passes 5 of 5 criteria                                         | Good (3)                                                                                                                                                                        |                    |   |
| Passes 3 or 4 of 5 criteria                                    | Moderate (2)                                                                                                                                                                    |                    |   |
| Passes 0, 1 or 2 of 5 criteria                                 | Poor (1)                                                                                                                                                                        | Yes                |   |
| Suggested enhancement interventions to improve condition score |                                                                                                                                                                                 |                    |   |
|                                                                |                                                                                                                                                                                 |                    |   |

| Condition Sheet: WOODLAND Habitat Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                        |                                                                                       |                                                                                       |                     |                     |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------|---------------------|--|
| UKHab Habitat Type(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                        |                                                                                       |                                                                                       |                     |                     |  |
| Woodland and forest - Lowland beech and yew woodland<br>Woodland and forest - Lowland mixed deciduous woodland<br>Woodland and forest - Native pine woodlands<br>Woodland and forest - Other coniferous woodland<br>Woodland and forest - Other Scot's pine woodland<br>Woodland and forest - Other woodland; broadleaved<br>Woodland and forest - Other woodland; mixed<br>Woodland and forest - Upland birchwoods<br>Woodland and forest - Upland mixed ashwoods<br>Woodland and forest - Upland oakwood<br>Woodland and forest - Wet woodland |                                                                        |                                                                                       |                                                                                       |                     |                     |  |
| Site name/location                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Wood Farm                                                              | Onsite/offsite                                                                        | onsite                                                                                |                     |                     |  |
| Habitat's Central Grid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                        | Unique polygon                                                                        |                                                                                       |                     |                     |  |
| Metric 3.0 survey reference (if condition assessment of this polygon relates to a wider habitat survey)                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                        | Limitations (if applicable)                                                           |                                                                                       |                     |                     |  |
| Habitat Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                        |                                                                                       |                                                                                       |                     |                     |  |
| <div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                        |                                                                                       |                                                                                       |                     |                     |  |
| <a href="#">See UKHab</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                        |                                                                                       |                                                                                       |                     |                     |  |
| This condition sheet is based on the England Woodland Biodiversity Group (EWBG) Woodland Condition Survey Method, available here:                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                        |                                                                                       |                                                                                       |                     |                     |  |
| <a href="#">Woodland Wildlife Toolkit (sylva.org.uk)</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                        |                                                                                       |                                                                                       |                     |                     |  |
| Condition Assessment Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                        |                                                                                       |                                                                                       |                     |                     |  |
| Indicator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Good (3 points)                                                        | Moderate (2 points)                                                                   | Poor (1 point)                                                                        | Score per indicator | Notes/Justification |  |
| 1 Age distribution of trees <sup>1</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Three age classes present                                              | Two age classes present                                                               | One age class present                                                                 | 2                   |                     |  |
| 2 Wild, domestic and feral herbivore damage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | No significant browsing damage evident in woodland <sup>2</sup>        | Evidence of significant browsing pressure is present in 40% or less of whole woodland | Evidence of significant browsing pressure is present in 40% or more of whole woodland | 3                   |                     |  |
| 3 Invasive plant species <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | No invasive species present in woodland                                | Rhododendron or laurel not present, other invasive species < 10% cover                | Rhododendron or laurel present, or other invasive species > 10% cover                 | 3                   |                     |  |
| 4 Number of native tree species                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Five or more native tree or shrub species found across woodland parcel | Three to four native tree or shrub species found across woodland parcel               | None to two native tree or shrub species across woodland parcel                       | 2                   |                     |  |
| 5 Cover of native tree and shrub species                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | > 80% of canopy trees and >80% of understory shrubs are native         | 50-80% of canopy trees and 50-80% of understory shrubs are native                     | < 50% of canopy trees and <50% of understory shrubs are native                        | 3                   |                     |  |

|                                                                |                                          |                                                                                                                                      |                                                                                                                                   |                                                                                                                            |                 |  |
|----------------------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-----------------|--|
| 6                                                              | Open space within woodland <sup>4</sup>  | 10 – 20% of woodland has areas of temporary open space, unless woodland is <10ha in which case lower threshold of 10% does not apply | 21- 40% of woodland has areas of temporary open space                                                                             | More than 40% of woodland has areas of temporary open space                                                                | 3               |  |
| 7                                                              | Woodland regeneration <sup>5</sup>       | All three classes present in woodland; trees 4-7cm dbh, saplings and seedlings or advanced coppice regrowth                          | One or two classes only present in woodland                                                                                       | No classes or coppice regrowth present in woodland                                                                         | 2               |  |
| 8                                                              | Tree health                              | Tree mortality less than 10%, no pests or diseases and no crown dieback                                                              | 11% to 25% mortality and/or crown dieback or low risk pest or disease present                                                     | Greater than 25% tree mortality and or any high risk pest or disease present                                               | 3               |  |
| 9                                                              | Vegetation and ground flora              | Ancient woodland flora indicators present                                                                                            | Recognisable NVC plant community present                                                                                          | No recognisable NVC community                                                                                              | 1               |  |
| 10                                                             | Woodland vertical structure <sup>6</sup> | Three or more storeys across all survey plots or a complex woodland                                                                  | Two storeys across all survey plots                                                                                               | One or less storey across all survey plots                                                                                 | 2               |  |
| 11                                                             | Veteran trees <sup>7</sup>               | Two or more veteran trees per hectare                                                                                                | One veteran tree per hectare                                                                                                      | No veteran trees present in woodland                                                                                       | 1               |  |
| 12                                                             | Amount of deadwood                       | 50% of all survey plots within the woodland parcel have standing deadwood, large dead branches/ stems and stumps                     | Between 25% and 50% of all survey plots within the woodland parcel have standing deadwood, large dead branches/ stems and stumps  | Less than 25% of all survey plots within the woodland parcel have standing deadwood, large dead branches/ stems and stumps | 1               |  |
| 13                                                             | Woodland disturbance <sup>8</sup>        | No nutrient enrichment or damaged ground evident                                                                                     | Less than 1 hectare in total of nutrient enrichment across woodland area and/or less than 20% of woodland area has damaged ground | More than 1 hectare of nutrient enrichment and/or more than 20% of woodland area has damaged ground                        | 3               |  |
| Total Score                                                    |                                          |                                                                                                                                      |                                                                                                                                   |                                                                                                                            | 29              |  |
| Condition Assessment Result                                    |                                          |                                                                                                                                      |                                                                                                                                   | Condition Assessment Score                                                                                                 | Result Achieved |  |
| Total score >32 (33 to 39)                                     |                                          |                                                                                                                                      |                                                                                                                                   | Good (3)                                                                                                                   | moderate        |  |
| Total score 26 to 32                                           |                                          |                                                                                                                                      |                                                                                                                                   | Moderate (2)                                                                                                               |                 |  |
| Total score <26 (13 to 25)                                     |                                          |                                                                                                                                      |                                                                                                                                   | Poor (1)                                                                                                                   |                 |  |
| Suggested enhancement interventions to improve condition score |                                          |                                                                                                                                      |                                                                                                                                   |                                                                                                                            |                 |  |
|                                                                |                                          |                                                                                                                                      |                                                                                                                                   |                                                                                                                            |                 |  |

### **Appendix 3: Metric Calculation**

Ref: 22-1754 (V3)

|                  |
|------------------|
|                  |
| Headline Results |

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|                                                                                                                                  |                |        |
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| On-site baseline                                                                                                                 | Habitat units  | 71.02  |
|                                                                                                                                  | Hedgerow units | 17.66  |
|                                                                                                                                  | River units    | 0.00   |
| On-site post-intervention<br>(Including habitat retention, creation & enhancement)                                               | Habitat units  | 86.56  |
|                                                                                                                                  | Hedgerow units | 20.03  |
|                                                                                                                                  | River units    | 0.00   |
| On-site net % change<br>(Including habitat retention, creation & enhancement)                                                    | Habitat units  | 21.88% |
|                                                                                                                                  | Hedgerow units | 13.44% |
|                                                                                                                                  | River units    | 0.00%  |
| Off-site baseline                                                                                                                | Habitat units  | 0.00   |
|                                                                                                                                  | Hedgerow units | 0.00   |
|                                                                                                                                  | River units    | 0.00   |
| Off-site post-intervention<br>(Including habitat retention, creation & enhancement)                                              | Habitat units  | 0.00   |
|                                                                                                                                  | Hedgerow units | 0.00   |
|                                                                                                                                  | River units    | 0.00   |
| Total net unit change<br>(including all on-site & off-site habitat retention, creation & enhancement)                            | Habitat units  | 15.54  |
|                                                                                                                                  | Hedgerow units | 2.37   |
|                                                                                                                                  | River units    | 0.00   |
| Total on-site net % change plus off-site surplus<br>(including all on-site & off-site habitat retention, creation & enhancement) | Habitat units  | 21.88% |
|                                                                                                                                  | Hedgerow units | 13.44% |
|                                                                                                                                  | River units    | 0.00%  |
| Trading rules Satisfied?                                                                                                         | Yes ✓          |        |

A-1 Site Habitat Baseline

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| Habitats and areas |                     |                                 | Disturbances    |              | Condition |                          | Strategic significance |                                                            |                                   | Suggested action to address habitat losses | Ecological baseline                                         |                                   |
|--------------------|---------------------|---------------------------------|-----------------|--------------|-----------|--------------------------|------------------------|------------------------------------------------------------|-----------------------------------|--------------------------------------------|-------------------------------------------------------------|-----------------------------------|
| Ref                | Broad Habitat       | Habitat Type                    | Area (hectares) | Disturbances | Score     | Condition                | Score                  | Strategic significance                                     | Strategic significance multiplier |                                            |                                                             | Strategic Significance multiplier |
| 1                  | Woodland and forest | Other woodland, broadleaved     | 1.07            | Medium       | 4         | Moderate                 | 2                      | Area/compensation not in local strategy/ no local strategy | Low Strategic Significance        | 1                                          | Same broad habitat or a higher disturbance habitat required | 8.56                              |
| 2                  | Heathland and shrub | Mixed scrub                     | 0.1             | Medium       | 4         | Poor                     | 1                      | Area/compensation not in local strategy/ no local strategy | Low Strategic Significance        | 1                                          | Same broad habitat or a higher disturbance habitat required | 0.40                              |
| 3                  | Cropland            | Temporary grass and clover leys | 28.54           | Low          | 2         | Condition Assessment N/A | 1                      | Area/compensation not in local strategy/ no local strategy | Low Strategic Significance        | 1                                          | Same disturbance or better habitat required                 | 59.08                             |
| 4                  | Cropland            | Modified grassland              | 0.11            | Low          | 2         | Poor                     | 1                      | Area/compensation not in local strategy/ no local strategy | Low Strategic Significance        | 1                                          | Same disturbance or better habitat required                 | 0.22                              |
| 5                  | Urban               | Introduced shrub                | 0.02            | Low          | 2         | Condition Assessment N/A | 1                      | Area/compensation not in local strategy/ no local strategy | Low Strategic Significance        | 1                                          | Same disturbance or better habitat required                 | 0.04                              |
| 6                  | Lakes               | Ponds (Non-Priority Habitat)    | 0.34            | Medium       | 4         | Moderate                 | 2                      | Area/compensation not in local strategy/ no local strategy | Low Strategic Significance        | 1                                          | Same broad habitat or a higher disturbance habitat required | 2.72                              |
| 7                  | Urban               | Developed land, sealed surface  | 0.99            | Very Low     | 0         | N/A - Other              | 0                      | Area/compensation not in local strategy/ no local strategy | Low Strategic Significance        | 1                                          | Compensation Not Required                                   | 0.00                              |
| 8                  | Urban               | Developed land, sealed surface  | 0.95            | Very Low     | 0         | N/A - Other              | 0                      | Area/compensation not in local strategy/ no local strategy | Low Strategic Significance        | 1                                          | Compensation Not Required                                   | 0.00                              |
| 9                  |                     |                                 |                 |              |           |                          |                        |                                                            |                                   |                                            |                                                             |                                   |
| 10                 |                     |                                 |                 |              |           |                          |                        |                                                            |                                   |                                            |                                                             |                                   |
| Total habitat area |                     |                                 | 52.62           |              |           |                          |                        |                                                            |                                   |                                            |                                                             | 71.00                             |

| Retention category biodiversity value |               |                         |                         |                   |            | Baseline compensation agreed for unacceptable losses | Comments          |                   |
|---------------------------------------|---------------|-------------------------|-------------------------|-------------------|------------|------------------------------------------------------|-------------------|-------------------|
| Area retained                         | Area enhanced | Baseline units retained | Baseline units enhanced | Area habitat lost | Units lost |                                                      | Assessor comments | Reviewer comments |
| 0.757                                 |               | 6.06                    | 0.00                    | 0.31              | 2.50       |                                                      |                   |                   |
|                                       |               | 0.00                    | 0.00                    | 0.10              | 0.40       |                                                      |                   |                   |
|                                       |               | 0.00                    | 0.00                    | 28.54             | 59.08      |                                                      |                   |                   |
|                                       |               | 0.00                    | 0.00                    | 0.11              | 0.22       |                                                      |                   |                   |
|                                       |               | 0.00                    | 0.00                    | 0.02              | 0.04       |                                                      |                   |                   |
| 0.147                                 |               | 1.18                    | 0.00                    | 0.19              | 1.54       |                                                      |                   |                   |
|                                       |               | 0.00                    | 0.00                    | 0.96              | 0.00       |                                                      |                   |                   |
|                                       |               | 0.00                    | 0.00                    | 0.36              | 0.00       |                                                      |                   |                   |
|                                       |               |                         |                         |                   |            |                                                      |                   |                   |
|                                       |               |                         |                         |                   |            |                                                      |                   |                   |
| 0.90                                  | 0.00          | 7.25                    | 0.00                    | 31.40             | 65.10      |                                                      |                   |                   |

|                                                                 |       |
|-----------------------------------------------------------------|-------|
| Total area lost (excluding area of Urban trees and Green roofs) | 31.40 |
|-----------------------------------------------------------------|-------|

| A-2 Site Habitat Creation |                      |
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B-1 Site Hedge Baseline

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| UE Habitats - existing habitats |                                   |                             |            | Habitat distinctiveness |       | Habitat condition |       | Strategic significance                                     |                            |                               | Suggested action to address habitat losses | Ecological baseline | Retention category biodiversity value |                 |                |                |             |            | Comments          |                   |
|---------------------------------|-----------------------------------|-----------------------------|------------|-------------------------|-------|-------------------|-------|------------------------------------------------------------|----------------------------|-------------------------------|--------------------------------------------|---------------------|---------------------------------------|-----------------|----------------|----------------|-------------|------------|-------------------|-------------------|
| Baseline ref                    | Hedge number                      | Hedge row type              | Length (m) | Distinctiveness         | Score | Condition         | Score | Strategic significance                                     | Strategic significance     | Strategic position multiplier |                                            |                     | Length retained                       | Length enhanced | Units retained | Units enhanced | Length lost | Units lost | Assessor comments | Reviewer comments |
| 1                               | H1, H2, H3, H7, H8, H10, H11, H19 | Native Hedge row            | 2.38       | Low                     | 2     | Moderate          | 2     | Area/compensation not in local strategy/ no local strategy | Low Strategic Significance | 1                             | Same distinctiveness band or better        | 9.52                | 0.92                                  |                 | 3.68           | 0.00           | 1.46        | 5.94       |                   |                   |
| 2                               | H16                               | Native Hedge row            | 0.108      | Low                     | 2     | Poor              | 1     | Area/compensation not in local strategy/ no local strategy | Low Strategic Significance | 1                             | Same distinctiveness band or better        | 0.52                |                                       |                 | 0.00           | 0.00           | 0.11        | 0.22       |                   |                   |
| 3                               | H3, H4, H6, H9, H19               | Native Hedge row with trees | 0.98       | Medium                  | 4     | Moderate          | 2     | Area/compensation not in local strategy/ no local strategy | Low Strategic Significance | 1                             | Same distinctiveness band or better        | 7.92                | 0.16                                  |                 | 1.28           | 0.00           | 0.82        | 6.64       |                   |                   |
| 4                               |                                   |                             |            |                         |       |                   |       |                                                            |                            |                               |                                            |                     |                                       |                 |                |                |             |            |                   |                   |
| 5                               |                                   |                             |            |                         |       |                   |       |                                                            |                            |                               |                                            |                     |                                       |                 |                |                |             |            |                   |                   |
| 6                               |                                   |                             |            |                         |       |                   |       |                                                            |                            |                               |                                            |                     |                                       |                 |                |                |             |            |                   |                   |
| 7                               |                                   |                             |            |                         |       |                   |       |                                                            |                            |                               |                                            |                     |                                       |                 |                |                |             |            |                   |                   |
| 8                               |                                   |                             |            |                         |       |                   |       |                                                            |                            |                               |                                            |                     |                                       |                 |                |                |             |            |                   |                   |
|                                 |                                   |                             | 3.46       |                         |       |                   |       |                                                            |                            |                               |                                            | 17.69               | 1.08                                  | 0.00            | 4.96           | 0.00           | 2.40        | 18.70      |                   |                   |

| B-2 Site Hedge Creation |                  |                               |            |                 |                         |           |                   |                                                           |                            |                               |                                         |                                  |                                          |                                               |                                      |                                 |                                 |                               |                              |                               |                       |                       |                   |          |  |
|-------------------------|------------------|-------------------------------|------------|-----------------|-------------------------|-----------|-------------------|-----------------------------------------------------------|----------------------------|-------------------------------|-----------------------------------------|----------------------------------|------------------------------------------|-----------------------------------------------|--------------------------------------|---------------------------------|---------------------------------|-------------------------------|------------------------------|-------------------------------|-----------------------|-----------------------|-------------------|----------|--|
| Condense / Show Columns |                  |                               |            |                 |                         |           |                   |                                                           |                            |                               | Condense / Show Rows                    |                                  |                                          |                                               |                                      |                                 |                                 |                               |                              |                               |                       |                       |                   |          |  |
| Main Menu               |                  |                               |            |                 |                         |           |                   |                                                           |                            |                               | Instructions                            |                                  |                                          |                                               |                                      |                                 |                                 |                               |                              |                               |                       |                       |                   |          |  |
|                         |                  | Proposed habitats             |            |                 | Habitat distinctiveness |           | Habitat condition |                                                           | Strategic significance     |                               |                                         | Temporal multiplier              |                                          |                                               |                                      |                                 | Difficulty risk multipliers     |                               |                              |                               |                       | Hedge value delivered |                   | Comments |  |
| Baseline ref            | New hedge number | Habitat type                  | Length (m) | Distinctiveness | Score                   | Condition | Score             | Strategic significance                                    | Strategic significance     | Strategic position multiplier | Standard Time to target condition/years | Habitat created in advance/years | Delay in starting habitat creation/years | Standard or adjusted time to target condition | Final time to target condition/years | Final time to target multiplier | Standard difficulty of creation | Applied difficulty multiplier | Final difficulty of creation | Difficulty multiplier applied | Hedge value delivered | Assessor comments     | Reviewer comments |          |  |
| 1                       |                  | Native Species Rich Hedge row | 1.03       | Medium          | 4                       | Good      | 3                 | Area/compensation not in local strategy or local strategy | Low Strategic Significance | 1                             | 12                                      |                                  |                                          | Standard time to target condition reached     | 12                                   | 0.002                           | Low                             | Standard difficulty reached   | Low                          | 1                             | 11.07                 |                       |                   |          |  |
| 2                       |                  | Native Hedge row with trees   | 0.009      | Medium          | 4                       | Good      | 3                 | Area/compensation not in local strategy or local strategy | Low Strategic Significance | 1                             | 20                                      |                                  |                                          | Standard time to target condition reached     | 20                                   | 0.002                           | Low                             | Standard difficulty reached   | Low                          | 1                             | 3.10                  | considered hedgerows  |                   |          |  |
| 3                       |                  |                               |            |                 |                         |           |                   |                                                           |                            |                               |                                         |                                  |                                          |                                               |                                      |                                 |                                 |                               |                              |                               |                       |                       |                   |          |  |
| 4                       |                  |                               |            |                 |                         |           |                   |                                                           |                            |                               |                                         |                                  |                                          |                                               |                                      |                                 |                                 |                               |                              |                               |                       |                       |                   |          |  |
| 5                       |                  |                               |            |                 |                         |           |                   |                                                           |                            |                               |                                         |                                  |                                          |                                               |                                      |                                 |                                 |                               |                              |                               |                       |                       |                   |          |  |
| 6                       |                  |                               |            |                 |                         |           |                   |                                                           |                            |                               |                                         |                                  |                                          |                                               |                                      |                                 |                                 |                               |                              |                               |                       |                       |                   |          |  |
| 7                       |                  |                               |            |                 |                         |           |                   |                                                           |                            |                               |                                         |                                  |                                          |                                               |                                      |                                 |                                 |                               |                              |                               |                       |                       |                   |          |  |
|                         |                  |                               | 8.08       |                 |                         |           |                   |                                                           |                            |                               |                                         |                                  |                                          |                                               |                                      |                                 |                                 |                               |                              |                               |                       | 18.07                 |                   |          |  |

#### **Appendix 4: Development (Post Development) Plan**

Ref: 22-1660 (V1)



### Legend:

Site Boundary = 32.503ha

Scattered Tree = 160

Proposed Indigenous Hedgerow = 1.53km

Proposed Translocated Hedgerow = 0.526km

Building = 8.632ha

Existing Woodland to be Retained = 0.757ha

A A

Grass Mown = 0.761ha

Hardstanding = 8.711ha

Introduced Shrub = 0.159ha

Proposed Area for Translocated Tree Stock = 0.262ha

Proposed Broadleaf Woodland Core Mix = 2.216ha

Proposed Broadleaf Woodland Edge Mix = 2.657ha

Proposed Thicket Mix = 0.195ha

Tall Ornamental Planting = 0.024ha

Low Ornamental Planting = 0.268ha

Species Rich Grassland Seeded Area = 5.783ha

Species Rich Wetland Grass = 1.279ha

Proposed Wet Woodland = 0.486ha

Standing Water = 0.166ha

Retained Pond = 0.147ha

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TITLE:  
**Post Development Biodiversity Net Gain**

PROJECT/SITE:  
**Bardon 3**

CLIENT:  
**Wood Farm Holdings Limited**

MAP REF:  
**4946/01/22-1660**

VERSION:  
**v1**

DATE:  
**16/02/23**

SCALE:  
**1:5,000@A3**

APPROVED BY:  
**SH**

PRODUCED BY:  
**SM**

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## **Appendix 5: Post-Development Habitat Condition Sheets**

Ref: 22-1756 (V1)

|                                                                                     |                                                                                                                                                                                                                                                         |                                                                                                                |                            |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------|
| <b>Condition Sheet: GRASSLAND Habitat Type (low distinctiveness)</b>                |                                                                                                                                                                                                                                                         |                                                                                                                |                            |
| <b>UKHab Habitat Type(s)</b>                                                        |                                                                                                                                                                                                                                                         |                                                                                                                |                            |
| <b>Grassland - Modified grassland</b>                                               |                                                                                                                                                                                                                                                         |                                                                                                                |                            |
| <b>Site name/location</b>                                                           | Wood farm                                                                                                                                                                                                                                               | <b>Onsite/offsite</b>                                                                                          | onsite                     |
| <b>Central grid reference of habitat</b>                                            |                                                                                                                                                                                                                                                         | <b>Unique polygon reference</b>                                                                                |                            |
| <b>Limitations (if applicable)</b>                                                  |                                                                                                                                                                                                                                                         | <b>Metric 3.0 survey reference (if condition assessment of this polygon relates to a wider habitat survey)</b> |                            |
| <b>Habitat Description</b>                                                          |                                                                                                                                                                                                                                                         |                                                                                                                |                            |
| mown grass in amenity areas                                                         |                                                                                                                                                                                                                                                         |                                                                                                                |                            |
| <a href="#">See UKHab</a>                                                           |                                                                                                                                                                                                                                                         |                                                                                                                |                            |
| <b>Condition Assessment Criteria</b>                                                |                                                                                                                                                                                                                                                         | <b>Condition Achieved (Y/N)</b>                                                                                | <b>Notes/Justification</b> |
| 1                                                                                   | There must be 6-8 species per m2. If a grassland has 9 or more species per m2 it should be classified as a medium distinctiveness grassland habitat type.<br><b>NB - this criterion is essential for achieving moderate condition.</b>                  | N                                                                                                              |                            |
| 2                                                                                   | Sward height is varied (at least 20% of the sward is less than 7 cm and at least 20% is more than 7 cm) creating microclimates which provide opportunities for insects, birds and small mammals to live and breed.                                      | N                                                                                                              |                            |
| 3                                                                                   | Some scattered scrub (including bramble) may be present, but scrub accounts for less than 20% of total grassland area. Note - patches of shrubs with continuous (more than 90%) cover should be classified as the relevant scrub habitat type.          | Y                                                                                                              |                            |
| 4                                                                                   | Physical damage is evident in less than 5% of total grassland area. Examples of physical damage include excessive poaching, damage from machinery use or storage, erosion caused by high levels of access, or any other damaging management activities. | N                                                                                                              |                            |
| 5                                                                                   | Cover of bare ground is between 1% and 10%, including localised areas (for example, a concentration of rabbit warrens).                                                                                                                                 | Y                                                                                                              |                            |
| 6                                                                                   | Cover of bracken less than 20%.                                                                                                                                                                                                                         | Y                                                                                                              |                            |
| 7                                                                                   | There is an absence of invasive non-native species (as listed on Schedule 9 of WCA, 1981).                                                                                                                                                              | Y                                                                                                              |                            |
| <b>Essential criterion 1 achieved (Y/N)</b>                                         |                                                                                                                                                                                                                                                         |                                                                                                                | N                          |
| <b>Number of criteria passed</b>                                                    |                                                                                                                                                                                                                                                         |                                                                                                                | 4                          |
| <b>Condition Assessment Result</b>                                                  | <b>Condition Assessment Score</b>                                                                                                                                                                                                                       | <b>Score Achieved * / ✓</b>                                                                                    |                            |
| Passes 6 or 7 of 7 criteria including passing essential criterion 1                 | Good (3)                                                                                                                                                                                                                                                |                                                                                                                |                            |
| Passes 4 or 5 of 7 criteria including passing essential criterion 1                 | Moderate (2)                                                                                                                                                                                                                                            |                                                                                                                |                            |
| Passes 0, 1, 2 or 3 of 7 criteria; OR 4, 5 or 6 of criteria but failing criterion 1 | Poor (1)                                                                                                                                                                                                                                                | Yes                                                                                                            |                            |
| <b>Suggested enhancement interventions to improve condition score</b>               |                                                                                                                                                                                                                                                         |                                                                                                                |                            |
|                                                                                     |                                                                                                                                                                                                                                                         |                                                                                                                |                            |
| <b>Notes</b>                                                                        |                                                                                                                                                                                                                                                         |                                                                                                                |                            |
|                                                                                     |                                                                                                                                                                                                                                                         |                                                                                                                |                            |

| Condition Sheet: GRASSLAND Habitat Type (medium, high & very high distinctiveness)                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                         |                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------|
| UKHab Habitat Type(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                         |                     |
| Grassland - Lowland calcareous grassland<br>Grassland - Lowland dry acid grassland<br>Grassland - Lowland meadows<br>Grassland - Other lowland acid grassland<br>Grassland - Other neutral grassland<br>Grassland - Tall herb communities (H6430) [Note Tall herb habitat that does not meet the Annex 1 definition should be recorded as "Other neutral grassland"]<br>Grassland - Upland acid grassland<br>Grassland - Upland calcareous grassland<br>Grassland - Upland hay meadows<br>Sparsely vegetated land - Calaminarian grassland |                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                         |                     |
| Site name/location                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Wood farm                                                                                                                                                                                                                                                                                                                                                                                               | Onsite/offsite                                                                                          | onsite              |
| Central grid reference of habitat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                         | Unique polygon reference                                                                                |                     |
| Limitations (if applicable)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                         | Metric 3.0 survey reference (if condition assessment of this polygon relates to a wider habitat survey) |                     |
| Habitat Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                         |                     |
| Species rich grassland seeded area                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                         |                     |
| <a href="#">See UKHab</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                         |                     |
| Condition Assessment Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                         | Condition Achieved (Y/N)                                                                                | Notes/Justification |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | The appearance and composition of the vegetation closely matches characteristics of the specific grassland habitat type (see UKHab definition). Wildflowers, sedges and indicator species for the specific grassland habitat type are very clearly and easily visible throughout the sward. <b>NB - This criterion is essential for achieving moderate condition for non-acid grassland types only.</b> | Y                                                                                                       |                     |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Sward height is varied (at least 20% of the sward is less than 7 cm and at least 20 per cent is more than 7 cm) creating microclimates which provide opportunities for insects, birds and small mammals to live and breed.                                                                                                                                                                              | Y                                                                                                       |                     |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Cover of bare ground between 1% and 5%, including localised areas, for example, rabbit warrens.                                                                                                                                                                                                                                                                                                         | Y                                                                                                       |                     |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Cover of bracken less than 20% and cover of scrub (including bramble) less than 5%.                                                                                                                                                                                                                                                                                                                     | Y                                                                                                       |                     |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | There is an absence of invasive non-native species (as listed on Schedule 9 of WCA, 1981). Combined cover of species indicative of sub-optimal condition <sup>1</sup> and physical damage (such as excessive poaching, damage from machinery use or storage, damaging levels of access, or any other damaging management activities) accounts for less than 5% of total area.                           | Y                                                                                                       |                     |
| Additional Group (Non-acid types only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                         |                     |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                           |                    |   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---|
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | There are greater than 9 species per metre squared. <b>NB - This criterion is essential for achieving good condition (non-acid grassland types only).</b> | N                  |   |
| Criterion 1 Achieved (Essential for good condition for non-acid grassland) (Y/N)                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                           |                    |   |
| Number of criteria passed                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                           |                    | 5 |
| Condition Assessment Result                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Condition Assessment Score                                                                                                                                | Score Achieved ×/✓ |   |
| <b>Acid Grassland Types</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                           |                    |   |
| Passes 5 of 5 criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Good (3)                                                                                                                                                  |                    |   |
| Passes 3 or 4 of 5 criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Moderate (2)                                                                                                                                              |                    |   |
| Passes 0, 1 or 2 of 5 criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Poor (1)                                                                                                                                                  |                    |   |
| <b>Non-acid grassland Types</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                           |                    |   |
| Passes 5 of 6 criteria, including essential criterion 1 and 6.                                                                                                                                                                                                                                                                                                                                                                                                                    | Good (3)                                                                                                                                                  |                    |   |
| Passes 3 or 4 of 6 criteria, including essential criterion 1.                                                                                                                                                                                                                                                                                                                                                                                                                     | Moderate (2)                                                                                                                                              | Moderate           |   |
| Passes 0, 1, 2 criteria of 6 criteria; OR<br>Passes 3 or 4 criteria excluding criterion 1 and 6                                                                                                                                                                                                                                                                                                                                                                                   | Poor (1)                                                                                                                                                  |                    |   |
| <b>Suggested enhancement interventions to improve condition score</b>                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                           |                    |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                           |                    |   |
| <b>Notes</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                           |                    |   |
| <b>Footnote 1</b> - Species indicative of sub-optimal condition for this habitat type include:<br>Creeping thistle <i>Cirsium arvense</i> , spear thistle <i>Cirsium vulgare</i> , curled dock <i>Rumex crispus</i> , broad-leaved dock <i>Rumex obtusifolius</i> , common nettle <i>Urtica dioica</i> , creeping buttercup <i>Ranunculus repens</i> , greater plantain <i>Plantago major</i> , white clover <i>Trifolium repens</i> , cow parsley <i>Anthriscus sylvestris</i> . |                                                                                                                                                           |                    |   |

| Condition Sheet: GRASSLAND Habitat Type (medium, high & very high distinctiveness)                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                         |                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------|
| UKHab Habitat Type(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                         |                     |
| Grassland - Lowland calcareous grassland<br>Grassland - Lowland dry acid grassland<br>Grassland - Lowland meadows<br>Grassland - Other lowland acid grassland<br>Grassland - Other neutral grassland<br>Grassland - Tall herb communities (H6430) [Note Tall herb habitat that does not meet the Annex 1 definition should be recorded as "Other neutral grassland"]<br>Grassland - Upland acid grassland<br>Grassland - Upland calcareous grassland<br>Grassland - Upland hay meadows<br>Sparsely vegetated land - Calaminarian grassland |                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                         |                     |
| Site name/location                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | wood farm                                                                                                                                                                                                                                                                                                                                                                                               | Onsite/offsite                                                                                          | onsite              |
| Central grid reference of habitat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                         | Unique polygon reference                                                                                |                     |
| Limitations (if applicable)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                         | Metric 3.0 survey reference (if condition assessment of this polygon relates to a wider habitat survey) |                     |
| Habitat Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                         |                     |
| species rich wetland grass seeded area                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                         |                     |
| <a href="#">See UKHab</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                         |                     |
| Condition Assessment Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                         | Condition Achieved (Y/N)                                                                                | Notes/Justification |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | The appearance and composition of the vegetation closely matches characteristics of the specific grassland habitat type (see UKHab definition). Wildflowers, sedges and indicator species for the specific grassland habitat type are very clearly and easily visible throughout the sward. <b>NB - This criterion is essential for achieving moderate condition for non-acid grassland types only.</b> | Y                                                                                                       |                     |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Sward height is varied (at least 20% of the sward is less than 7 cm and at least 20 per cent is more than 7 cm) creating microclimates which provide opportunities for insects, birds and small mammals to live and breed.                                                                                                                                                                              | N                                                                                                       |                     |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Cover of bare ground between 1% and 5%, including localised areas, for example, rabbit warrens.                                                                                                                                                                                                                                                                                                         | Y                                                                                                       |                     |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Cover of bracken less than 20% and cover of scrub (including bramble) less than 5%.                                                                                                                                                                                                                                                                                                                     | Y                                                                                                       |                     |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | There is an absence of invasive non-native species (as listed on Schedule 9 of WCA, 1981). Combined cover of species indicative of sub-optimal condition <sup>1</sup> and physical damage (such as excessive poaching, damage from machinery use or storage, damaging levels of access, or any other damaging management activities) accounts for less than 5% of total area.                           | Y                                                                                                       |                     |
| Additional Group (Non-acid types only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                         |                     |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                           |                    |   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---|
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | There are greater than 9 species per metre squared. <b>NB - This criterion is essential for achieving good condition (non-acid grassland types only).</b> | N                  |   |
| Criterion 1 Achieved (Essential for good condition for non-acid grassland) (Y/N)                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                           |                    |   |
| Number of criteria passed                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                           |                    | 4 |
| Condition Assessment Result                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Condition Assessment Score                                                                                                                                | Score Achieved ×/✓ |   |
| <b>Acid Grassland Types</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                           |                    |   |
| Passes 5 of 5 criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Good (3)                                                                                                                                                  |                    |   |
| Passes 3 or 4 of 5 criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Moderate (2)                                                                                                                                              | Moderate           |   |
| Passes 0, 1 or 2 of 5 criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Poor (1)                                                                                                                                                  |                    |   |
| <b>Non-acid grassland Types</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                           |                    |   |
| Passes 5 of 6 criteria, including essential criterion 1 and 6.                                                                                                                                                                                                                                                                                                                                                                                                                    | Good (3)                                                                                                                                                  |                    |   |
| Passes 3 or 4 of 6 criteria, including essential criterion 1.                                                                                                                                                                                                                                                                                                                                                                                                                     | Moderate (2)                                                                                                                                              |                    |   |
| Passes 0, 1, 2 criteria of 6 criteria; OR<br>Passes 3 or 4 criteria excluding criterion 1 and 6                                                                                                                                                                                                                                                                                                                                                                                   | Poor (1)                                                                                                                                                  |                    |   |
| <b>Suggested enhancement interventions to improve condition score</b>                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                           |                    |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                           |                    |   |
| <b>Notes</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                           |                    |   |
| <b>Footnote 1</b> - Species indicative of sub-optimal condition for this habitat type include:<br>Creeping thistle <i>Cirsium arvense</i> , spear thistle <i>Cirsium vulgare</i> , curled dock <i>Rumex crispus</i> , broad-leaved dock <i>Rumex obtusifolius</i> , common nettle <i>Urtica dioica</i> , creeping buttercup <i>Ranunculus repens</i> , greater plantain <i>Plantago major</i> , white clover <i>Trifolium repens</i> , cow parsley <i>Anthriscus sylvestris</i> . |                                                                                                                                                           |                    |   |

| Condition sheet: HEDGEROW Habitat Types                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------|
| UKHab Habitat Type                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |
| Native hedgerow<br>Native hedgerow - associated with bank or ditch<br>Native hedgerow with trees<br>Native hedgerow with trees - associated with bank or ditch<br>Native species rich hedgerow<br>Native species rich hedgerow - associated with bank or ditch<br>Native species rich hedgerow with trees<br>Native species rich hedgerow with trees - associated with bank or ditch                    |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |
| Site name/Location                                                                                                                                                                                                                                                                                                                                                                                      | wood farm                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Onsite/offsite           | onsite              |
| Habitat's central grid reference                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                        | Unique polygon reference(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                          |                     |
| Limitations (if applicable)                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                        | Metric 3.1 survey reference (if condition assessment of this polygon relates to a wider habitat survey)                                                                                                                                                                                                                                                                                                                                                                                                      |                          |                     |
| Habitat Description                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |
| newly planted species rich hedgerow                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |
| See Table TS1-3 of the Technical Supplement.                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |
| Condition Assessment Criteria                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |
| A series of ten attributes, representing key physical characteristics, are used for this assessment. The attributes, and the minimum criteria for achieving a favourable condition in each, are defined. The attributes use similar favourable condition criteria to the Hedgerow Survey Handbook and the handbook is the recommended source of reference for assessing individual hedgerow attributes. |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |
| Hedgerow favourable condition attributes                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |
| Attributes and functional groupings (A, B, C, D & E)                                                                                                                                                                                                                                                                                                                                                    | Criteria (the minimum requirements for 'favourable condition'                                                                                                                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Condition Achieved (Y/N) | Notes/Justification |
| Core groups - applicable to all hedgerow types                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |
| A1. Height                                                                                                                                                                                                                                                                                                                                                                                              | >1.5 m average along length                                                                                                                                                            | The average height of woody growth estimated from base of stem to the top of shoots, excluding any bank beneath the hedgerow, any gaps or isolated trees.<br><br>Newly laid or coppiced hedgerows are indicative of good management and pass this criterion for up to a maximum of four years (if undertaken according to good practice).<br><br>A newly planted hedgerow does not pass this criterion (unless it is > 1.5 m height).                                                                        | Y                        |                     |
| A2. Width                                                                                                                                                                                                                                                                                                                                                                                               | >1.5 m average along length                                                                                                                                                            | The average width of woody growth estimated at the widest point of the canopy, excluding gaps and isolated trees.<br><br>Outgrowths (e.g. blackthorn suckers) are only included in the width estimate when they >0.5 m in height.<br><br>Laid, coppiced, cut and newly planted hedgerows are indicative of good management and pass this criterion for up to a maximum of four years (if undertaken according to good practice*).                                                                            | Y                        |                     |
| B1. Gap - hedge base                                                                                                                                                                                                                                                                                                                                                                                    | Gap between ground and base of canopy <0.5 m for >90% of length (unless 'line of trees')                                                                                               | This is the vertical gappiness of the woody component of the hedgerow, and its distance from the ground to the lowest leafy growth.<br><br>Certain exceptions to this criterion are acceptable (see page 65 of the Hedgerow Survey Handbook).                                                                                                                                                                                                                                                                | Y                        |                     |
| B2. Gap - hedge canopy continuity                                                                                                                                                                                                                                                                                                                                                                       | Gaps make up <10% of total length and No canopy gaps >5 m                                                                                                                              | This is the horizontal gappiness of the woody component of the hedgerow. Gaps are complete breaks in the woody canopy (no matter how small).<br><br>Access points and gates contribute to the overall gappiness, but are not subject to the >5 m criterion (as this is the typical size of a gate).                                                                                                                                                                                                          | Y                        |                     |
| C1. Undisturbed ground and perennial vegetation                                                                                                                                                                                                                                                                                                                                                         | >1 m width of undisturbed ground with perennial herbaceous vegetation for >90% of length: - measured from outer edge of hedgerow, and - is present on one side of the hedge (at least) | This is the level of disturbance (excluding wildlife disturbance) at the base of the hedge.<br><br>Undisturbed ground should be present for at least 90% of the hedgerow length, greater than 1m in width and must be present along at least one side of the hedge.<br><br>This criterion recognises the value of the hedge base as a boundary habitat with the capacity to support a wide range of species. Cultivation, heavily trodden footpaths, poached ground etc. can limit available habitat niches. | Y                        |                     |
| C2. Undesirable perennial vegetation                                                                                                                                                                                                                                                                                                                                                                    | Plant species indicative of nutrient enrichment of soils dominate <20% cover of the area of undisturbed ground                                                                         | The indicator species used are nettles ( <i>Urtica</i> spp.), cleavers ( <i>Galium aparine</i> ) and docks ( <i>Rumex</i> spp.). Their presence, either singly or together, should not exceed the 20% cover threshold.                                                                                                                                                                                                                                                                                       | Y                        |                     |
| D1. Invasive and neophyte species                                                                                                                                                                                                                                                                                                                                                                       | >90% of the hedgerow and undisturbed ground is free of invasive non-native and neophyte species                                                                                        | Neophytes are plants that have naturalised in the UK since AD 1500. For information on neophytes see the JNCC website and for information on invasive non-native species see the GB Non-Native Secretariat website.                                                                                                                                                                                                                                                                                          | Y                        |                     |
| D2. Current damage                                                                                                                                                                                                                                                                                                                                                                                      | >90% of the hedgerow or undisturbed ground is free of damage caused by human activities                                                                                                | This criterion addresses damaging activities that may have led to or lead to deterioration in other attributes.<br><br>This could include evidence of pollution, piles of manure or rubble, or inappropriate management practices (e.g. excessive hedge cutting).                                                                                                                                                                                                                                            | Y                        |                     |
| Additional group - applicable to hedgerows with trees only                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |

|                 |                                                                                                                                                                                                                                                                  |                                                                                                                                                    |  |  |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| E1. Tree age    | At least one mature tree per 30m stretch of hedgerow. A mature tree is one that is at least 2/3 expected fully mature height for the species.                                                                                                                    | This criterion addresses if there are sufficient mature trees (within the scope of planning timescales) which are of higher value to biodiversity. |  |  |
| E2. Tree health | At least 95% of hedgerow trees are in a healthy condition (excluding veteran features valuable for wildlife). There is little or no evidence of an adverse impact on tree health by damage from livestock or wild animals, pests or diseases, or human activity. | This criterion identifies if the trees are subject to damage which compromises the survival and health of the individual specimens.                |  |  |

Each attribute is assigned to one of five functional groups (A – E), as indicated in Table TS1-2 and the condition of a hedgerow is assessed according to the number of attributes from these functional groups which pass or fail the ‘favourable condition’ criteria according to the approach set out in Table TS1-3.

The hedgerow condition assessment generates a weighting (score) ranging from 1-3, which is used within the biodiversity metric 3.1. The scores for each are set out in tables TS1-3 and TS1-4 below.

**TABLE TS1-3:** Hedgerow condition assessment and weighting

| Condition categories for hedgerows without trees               |                                                                                                                                                                                             |                   |
|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| Category                                                       | Maximum number of attributes that can fail to meet 'favourable condition' criteria in Table TS1-2                                                                                           | Weighting (score) |
| Good                                                           | No more than 2 failures in total;<br><b>AND</b><br>No more than 1 in any functional group.                                                                                                  | 3                 |
| Moderate                                                       | No more than 4 failures in total;<br><b>AND</b><br><u>Does not fail both attributes</u> in more than one functional group (e.g. fails attributes A1, A2, B1 & C2 = Moderate condition).     | 2                 |
| Poor                                                           | Fails a total of more than 4 attributes;<br><b>OR</b><br><u>Fails both attributes</u> in more than one functional group (e.g. fails attributes A1, A2, B1 & B2 = Poor condition).           | 1                 |
| Score achieved:                                                | Good                                                                                                                                                                                        |                   |
| Condition categories for hedgerows with trees                  |                                                                                                                                                                                             |                   |
| Category                                                       | Maximum number of attributes that can fail to meet 'favourable condition' criteria in Table TS1-2                                                                                           | Weighting (score) |
| Good                                                           | No more than 2 failures in total;<br><b>AND</b><br>No more than 1 failure in any functional group.                                                                                          | 3                 |
| Moderate                                                       | No more than 5 failures in total;<br><b>AND</b><br><u>Does not fail both attributes</u> in more than one functional group (e.g. fails attributes A1, A2, B1, C2 & E1 = Moderate condition). | 2                 |
| Poor                                                           | Fails a total of more than 5 attributes; <b>OR</b><br><u>Fails both attributes</u> in more than one functional group (e.g. fails attributes A1, A2, B1 & B2 = Poor condition).              | 1                 |
| Score achieved:                                                |                                                                                                                                                                                             |                   |
| Suggested enhancement interventions to improve condition score |                                                                                                                                                                                             |                   |
|                                                                |                                                                                                                                                                                             |                   |

| Condition sheet: HEDGEROW Habitat Types                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------|
| UKHab Habitat Type                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |
| Native hedgerow<br>Native hedgerow - associated with bank or ditch<br>Native hedgerow with trees<br>Native hedgerow with trees - associated with bank or ditch<br>Native species rich hedgerow<br>Native species rich hedgerow - associated with bank or ditch<br>Native species rich hedgerow with trees<br>Native species rich hedgerow with trees - associated with bank or ditch                    |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |
| Site name/Location                                                                                                                                                                                                                                                                                                                                                                                      | wood farm                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Onsite/offsite           | onsite              |
| Habitat's central grid reference                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                        | Unique polygon reference(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                          |                     |
| Limitations (if applicable)                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                        | Metric 3.1 survey reference (if condition assessment of this polygon relates to a wider habitat survey)                                                                                                                                                                                                                                                                                                                                                                                                      |                          |                     |
| Habitat Description                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |
| translocated native hedgerow with trees                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |
| See Table TS1-3 of the Technical Supplement.                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |
| Condition Assessment Criteria                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |
| A series of ten attributes, representing key physical characteristics, are used for this assessment. The attributes, and the minimum criteria for achieving a favourable condition in each, are defined. The attributes use similar favourable condition criteria to the Hedgerow Survey Handbook and the handbook is the recommended source of reference for assessing individual hedgerow attributes. |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |
| Hedgerow favourable condition attributes                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |
| Attributes and functional groupings (A, B, C, D & E)                                                                                                                                                                                                                                                                                                                                                    | Criteria (the minimum requirements for 'favourable condition')                                                                                                                         | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Condition Achieved (Y/N) | Notes/Justification |
| Core groups - applicable to all hedgerow types                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |
| A1. Height                                                                                                                                                                                                                                                                                                                                                                                              | >1.5 m average along length                                                                                                                                                            | The average height of woody growth estimated from base of stem to the top of shoots, excluding any bank beneath the hedgerow, any gaps or isolated trees.<br><br>Newly laid or coppiced hedgerows are indicative of good management and pass this criterion for up to a maximum of four years (if undertaken according to good practice).<br><br>A newly planted hedgerow does not pass this criterion (unless it is > 1.5 m height).                                                                        | Y                        |                     |
| A2. Width                                                                                                                                                                                                                                                                                                                                                                                               | >1.5 m average along length                                                                                                                                                            | The average width of woody growth estimated at the widest point of the canopy, excluding gaps and isolated trees.<br><br>Outgrowths (e.g. blackthorn suckers) are only included in the width estimate when they >0.5 m in height.<br><br>Laid, coppiced, cut and newly planted hedgerows are indicative of good management and pass this criterion for up to a maximum of four years (if undertaken according to good practice*).                                                                            | Y                        |                     |
| B1. Gap - hedge base                                                                                                                                                                                                                                                                                                                                                                                    | Gap between ground and base of canopy <0.5 m for >90% of length (unless 'line of trees')                                                                                               | This is the vertical gappiness of the woody component of the hedgerow, and its distance from the ground to the lowest leafy growth.<br><br>Certain exceptions to this criterion are acceptable (see page 65 of the Hedgerow Survey Handbook).                                                                                                                                                                                                                                                                | Y                        |                     |
| B2. Gap - hedge canopy continuity                                                                                                                                                                                                                                                                                                                                                                       | Gaps make up <10% of total length and No canopy gaps >5 m                                                                                                                              | This is the horizontal gappiness of the woody component of the hedgerow. Gaps are complete breaks in the woody canopy (no matter how small).<br><br>Access points and gates contribute to the overall gappiness, but are not subject to the >5 m criterion (as this is the typical size of a gate).                                                                                                                                                                                                          | Y                        |                     |
| C1. Undisturbed ground and perennial vegetation                                                                                                                                                                                                                                                                                                                                                         | >1 m width of undisturbed ground with perennial herbaceous vegetation for >90% of length: - measured from outer edge of hedgerow, and - is present on one side of the hedge (at least) | This is the level of disturbance (excluding wildlife disturbance) at the base of the hedge.<br><br>Undisturbed ground should be present for at least 90% of the hedgerow length, greater than 1m in width and must be present along at least one side of the hedge.<br><br>This criterion recognises the value of the hedge base as a boundary habitat with the capacity to support a wide range of species. Cultivation, heavily trodden footpaths, poached ground etc. can limit available habitat niches. | Y                        |                     |
| C2. Undesirable perennial vegetation                                                                                                                                                                                                                                                                                                                                                                    | Plant species indicative of nutrient enrichment of soils dominate <20% cover of the area of undisturbed ground                                                                         | The indicator species used are nettles ( <i>Urtica</i> spp.), cleavers ( <i>Galium aparine</i> ) and docks ( <i>Rumex</i> spp.). Their presence, either singly or together, should not exceed the 20% cover threshold.                                                                                                                                                                                                                                                                                       | Y                        |                     |
| D1. Invasive and neophyte species                                                                                                                                                                                                                                                                                                                                                                       | >90% of the hedgerow and undisturbed ground is free of invasive non-native and neophyte species                                                                                        | Neophytes are plants that have naturalised in the UK since AD 1500. For information on neophytes see the JNCC website and for information on invasive non-native species see the GB Non-Native Secretariat website.                                                                                                                                                                                                                                                                                          | Y                        |                     |
| D2. Current damage                                                                                                                                                                                                                                                                                                                                                                                      | >90% of the hedgerow or undisturbed ground is free of damage caused by human activities                                                                                                | This criterion addresses damaging activities that may have led to or lead to deterioration in other attributes.<br><br>This could include evidence of pollution, piles of manure or rubble, or inappropriate management practices (e.g. excessive hedge cutting).                                                                                                                                                                                                                                            | Y                        |                     |
| Additional group - applicable to hedgerows with trees only                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                     |

|                 |                                                                                                                                                                                                                                                                  |                                                                                                                                                    |  |  |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| E1. Tree age    | At least one mature tree per 30m stretch of hedgerow. A mature tree is one that is at least 2/3 expected fully mature height for the species.                                                                                                                    | This criterion addresses if there are sufficient mature trees (within the scope of planning timescales) which are of higher value to biodiversity. |  |  |
| E2. Tree health | At least 95% of hedgerow trees are in a healthy condition (excluding veteran features valuable for wildlife). There is little or no evidence of an adverse impact on tree health by damage from livestock or wild animals, pests or diseases, or human activity. | This criterion identifies if the trees are subject to damage which compromises the survival and health of the individual specimens.                |  |  |

Each attribute is assigned to one of five functional groups (A – E), as indicated in Table TS1-2 and the condition of a hedgerow is assessed according to the number of attributes from these functional groups which pass or fail the 'favourable condition' criteria according to the approach set out in Table TS1-3.

The hedgerow condition assessment generates a weighting (score) ranging from 1-3, which is used within the biodiversity metric 3.1. The scores for each are set out in tables TS1-3 and TS1-4 below.

**TABLE TS1-3:** Hedgerow condition assessment and weighting

| Condition categories for hedgerows without trees               |                                                                                                                                                                                             |                   |
|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| Category                                                       | Maximum number of attributes that can fail to meet 'favourable condition' criteria in Table TS1-2                                                                                           | Weighting (score) |
| Good                                                           | No more than 2 failures in total;<br><b>AND</b><br>No more than 1 in any functional group.                                                                                                  | 3                 |
| Moderate                                                       | No more than 4 failures in total;<br><b>AND</b><br><u>Does not fail both attributes</u> in more than one functional group (e.g. fails attributes A1, A2, B1 & C2 = Moderate condition).     | 2                 |
| Poor                                                           | Fails a total of more than 4 attributes;<br><b>OR</b><br><u>Fails both attributes</u> in more than one functional group (e.g. fails attributes A1, A2, B1 & B2 = Poor condition).           | 1                 |
| Score achieved:                                                | Good                                                                                                                                                                                        |                   |
| Condition categories for hedgerows with trees                  |                                                                                                                                                                                             |                   |
| Category                                                       | Maximum number of attributes that can fail to meet 'favourable condition' criteria in Table TS1-2                                                                                           | Weighting (score) |
| Good                                                           | No more than 2 failures in total;<br><b>AND</b><br>No more than 1 failure in any functional group.                                                                                          | 3                 |
| Moderate                                                       | No more than 5 failures in total;<br><b>AND</b><br><u>Does not fail both attributes</u> in more than one functional group (e.g. fails attributes A1, A2, B1, C2 & E1 = Moderate condition). | 2                 |
| Poor                                                           | Fails a total of more than 5 attributes; <b>OR</b><br><u>Fails both attributes</u> in more than one functional group (e.g. fails attributes A1, A2, B1 & B2 = Poor condition).              | 1                 |
| Score achieved:                                                |                                                                                                                                                                                             |                   |
| Suggested enhancement interventions to improve condition score |                                                                                                                                                                                             |                   |
|                                                                |                                                                                                                                                                                             |                   |

|                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                              |                                                                                                                |                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------|
| <b>Condition Sheet: SCRUB Habitat Type</b>                                                                                                                                                                                                           |                                                                                                                                                                                                                                                              |                                                                                                                |                            |
| <b>UKHab Habitat Type</b>                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                              |                                                                                                                |                            |
| Heathland and shrub - Blackthorn scrub<br>Heathland and shrub - Gorse scrub<br>Heathland and shrub - Hawthorn scrub<br>Heathland and shrub - Hazel scrub<br>Heathland and shrub - Mixed scrub<br>Heathland and shrub - Sea buckthorn scrub (Annex 1) |                                                                                                                                                                                                                                                              |                                                                                                                |                            |
| <b>Site name/location</b>                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                              | <b>Onsite/offsite</b>                                                                                          |                            |
| <b>Central grid reference of habitat</b>                                                                                                                                                                                                             |                                                                                                                                                                                                                                                              | <b>Unique polygon reference</b>                                                                                |                            |
| <b>Limitations (if applicable)</b>                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                              | <b>Metric 3.0 survey reference (if condition assessment of this polygon relates to a wider habitat survey)</b> |                            |
| <b>Habitat Description</b>                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                              |                                                                                                                |                            |
| <br><br><br><br><br><br><br><br><br><br>                                                                                                                                                                                                             |                                                                                                                                                                                                                                                              |                                                                                                                |                            |
| <a href="#">See UKHab</a>                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                              |                                                                                                                |                            |
| <a href="#">For sea buckthorn scrub see: Habitats Directive Annex 1 definition</a>                                                                                                                                                                   |                                                                                                                                                                                                                                                              |                                                                                                                |                            |
| <b>Condition Assessment Criteria</b>                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                              | <b>Condition Achieved (Y/N)</b>                                                                                | <b>Notes/Justification</b> |
| 1                                                                                                                                                                                                                                                    | Habitat is representative of UKHab description (where in its natural range). There are at least three woody species, with no one species comprising more than 75% of the cover (except common juniper, sea buckthorn or box, which can be up to 100% cover). | Y                                                                                                              |                            |
| 2                                                                                                                                                                                                                                                    | There is a good age range – all of the following are present: seedlings, young shrubs and mature shrubs.                                                                                                                                                     | Y                                                                                                              |                            |

|                                                                |                                                                                                                                                                                 |                    |   |
|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---|
| 3                                                              | There is an absence of invasive non-native species (as listed on Schedule 9 of WCA, 1981) and species indicative of sub-optimal condition make up less than 5% of ground cover. | Y                  |   |
| 4                                                              | The scrub has a well-developed edge with scattered scrub and tall grassland and/or herbs present between the scrub and adjacent habitat(s).                                     | N                  |   |
| 5                                                              | There are clearings, glades or rides present within the scrub, providing sheltered edges.                                                                                       | N                  |   |
| Number of criteria passed                                      |                                                                                                                                                                                 |                    | 3 |
| Condition Assessment Result                                    | Condition Assessment Score                                                                                                                                                      | Score Achieved x/✓ |   |
| Passes 5 of 5 criteria                                         | Good (3)                                                                                                                                                                        |                    |   |
| Passes 3 or 4 of 5 criteria                                    | Moderate (2)                                                                                                                                                                    | Yes                |   |
| Passes 0, 1 or 2 of 5 criteria                                 | Poor (1)                                                                                                                                                                        |                    |   |
| Suggested enhancement interventions to improve condition score |                                                                                                                                                                                 |                    |   |
|                                                                |                                                                                                                                                                                 |                    |   |

| Condition Sheet: URBAN Habitat Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                         |                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------|
| UKHab Habitat Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                         |                     |
| <b>Sparsely vegetated land - Ruderal/ephemeral</b><br><b>Urban – Allotments</b><br><b>Urban – Biodiverse green roof</b> [Use Urban condition sheet as default. Where there are areas of grassland, scrub or other habitat above the minimum mappable area threshold, record and assess these as the relevant habitat type]<br><b>Urban - Bioswale</b><br><b>Urban - Cemeteries and churchyards</b> [Use Urban condition sheet as default. Where there are areas of grassland, woodland or scrub above the minimum mappable area threshold, record and assess these as the relevant habitat type]<br><b>Urban - Façade-bound green wall</b><br><b>Urban - Ground based green wall</b><br><b>Urban - Intensive green roof</b><br><b>Urban - Open mosaic habitats on previously developed land</b><br><b>Urban - Rain garden</b><br><b>Urban - Sustainable urban drainage feature</b> [in the context of the Biodiversity Metric, this habitat type refers to open SUDS with vegetation and/or open water]<br><b>Urban - Vacant / derelict land / bare ground</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                         |                     |
| Site name/location                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | wood farm                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Onsite/offsite                                                                                          | onsite              |
| Central grid reference                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Unique polygon reference                                                                                |                     |
| Limitations (if applicable)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Metric 3.1 survey reference (if condition assessment of this polygon relates to a wider habitat survey) |                     |
| <b>Habitat Description</b><br>SUDS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                         |                     |
| <a href="#">See UKHab</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                         |                     |
| Condition Assessment Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Condition Achieved (Y/N)                                                                                | Notes/Justification |
| CORE CRITERIA - applicable to <b>all urban habitat types</b> :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                         |                     |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Vegetation structure is varied, providing opportunities for insects, birds and bats to live and breed. A single ecotone (i.e. scrub, grassland, herbs) should not account for more than 80% of the total habitat area.                                                                                                                                                                                                                                    | N                                                                                                       |                     |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | There is a diverse range of flowering plant species, providing nectar sources for insects. These species may be either native, or non-native but beneficial to wildlife.<br><b>NB - To achieve GOOD condition, criterion 2 must be satisfied by native species only (rather than non-natives beneficial to wildlife). Note that Biodiverse green roofs are exempt from this requirement, and can include non-native sedums, as set out in footnote 1.</b> | Y                                                                                                       |                     |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Invasive non-native species (Schedule 9 of WCA) cover less than 5% of total vegetated area.<br><b>NB - To achieve GOOD condition, criterion 3 must be satisfied by a complete absence of invasive non-native species (rather than &lt;5% cover).</b>                                                                                                                                                                                                      | Y                                                                                                       |                     |
| ADDITIONAL CRITERION - only applicable to <b>Open mosaic on previously developed land</b> habitat type:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                         |                     |
| 4a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | The site shows spatial variation, forming a mosaic of at least four early successional communities (a) to (h) PLUS bare substrate AND pools. (a) annuals; (b) mosses/liverworts; (c) lichens; (d) ruderals; (e) inundation species; (f) open grassland; (g) flower-rich grassland; (h) heathland.                                                                                                                                                         |                                                                                                         |                     |
| ADDITIONAL CRITERION - only applicable to <b>Bioswale and SUDS</b> habitat types:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                         |                     |
| 4b                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | The water table is at or near the surface throughout the year. This could be                                                                                                                                                                                                                                                                                                                                                                              | Y                                                                                                       |                     |
| ADDITIONAL CRITERION - only applicable to <b>green roof</b> habitat types (select as necessary):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                         |                     |
| 4c1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Intensive green roofs</b> – have a minimum of 50% native and non-native wildflowers - 70% of the roof area is soil and vegetation (including water features)                                                                                                                                                                                                                                                                                           |                                                                                                         |                     |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                     |                    |   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---|
| 4c2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Biodiverse green roofs</b> - have a varied depth of 80 - 150mm at least 50% is at 150mm and is planted and seeded with wildflowers and sedums or is pre-prepared with sedums and wildflowers. To achieve Good condition some additional habitat, such as sand piles, logs etc should be present. |                    |   |
| Essential criterion 2&3 achieved? (must be achieved to score a good condition for non biodiverse green roofs) (Y/N)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                     |                    |   |
| Number of criteria passed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                     |                    | 3 |
| Condition Assessment Result                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Condition Assessment Score                                                                                                                                                                                                                                                                          | Score Achieved ×/✓ |   |
| If 3 criteria assessed:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                     |                    |   |
| <ul style="list-style-type: none"> <li>• Passes 3 of 3 core criteria; AND</li> <li>• Meets the requirements for good condition within criteria 2 and 3</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Good (3)                                                                                                                                                                                                                                                                                            |                    |   |
| <ul style="list-style-type: none"> <li>• Passes 2 of 3 core criteria; OR</li> <li>• Passes 3 of 3 core criteria but does not meet the requirements for good condition within criteria 2 and 3</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Moderate (2)                                                                                                                                                                                                                                                                                        |                    |   |
| <ul style="list-style-type: none"> <li>• Passes 0 or 1 of 3 core criteria</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Poor (1)                                                                                                                                                                                                                                                                                            |                    |   |
| If 4 criteria assessed:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                     |                    |   |
| <ul style="list-style-type: none"> <li>• Passes 3 of 3 core criteria; AND</li> <li>• Meets the requirements for good condition within criteria 2 and 3; AND</li> <li>• Passes additional criterion 4a or 4b</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Good (3)                                                                                                                                                                                                                                                                                            |                    |   |
| <ul style="list-style-type: none"> <li>• Passes 2 of 3 of 4 criteria; OR</li> <li>• Passes 4 of 4 criteria but does not meet the requirements for good condition within criteria 2 and 3</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Moderate (2)                                                                                                                                                                                                                                                                                        | Yes                |   |
| <ul style="list-style-type: none"> <li>• Passes 0 or 1 of 4 criteria</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Poor (1)                                                                                                                                                                                                                                                                                            |                    |   |
| Suggested enhancement interventions to improve condition score                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                     |                    |   |
| Notes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                     |                    |   |
| <p><b>Footnote 1:</b> For <b>Biodiverse green roofs only</b> - experience has shown that a range of sedums species (native, naturalised, and non-native) support wildflowers during hot periods. Therefore, for Criteria 2 a Biodiverse green roof can have non-native sedums and still achieve Good condition.</p> <p><b>Footnote 2:</b> For Criteria 3 – For <b>green roof habitat types only</b> - <i>Buddleja davidii</i> should be assessed alongside Schedule 9 species. This species impairs the health of the local ecosystem and reduces the biodiversity potential of the roof. It is also a sign that a roof has not be planted and seeded correctly in sub-subsequent years.</p> |                                                                                                                                                                                                                                                                                                     |                    |   |

## Condition Sheet: URBAN TREES Habitat Type

| UKHab Habitat Type(s) |
|-----------------------|
|                       |

Urban - Urban tree

|                                   |           |                                                                                                         |        |
|-----------------------------------|-----------|---------------------------------------------------------------------------------------------------------|--------|
| Site name/location                | wood farm | Onsite/offsite                                                                                          | onsite |
| Central grid reference of habitat |           | Unique polygon reference                                                                                |        |
| Limitations (if applicable)       |           | Metric 3.0 survey reference (if condition assessment of this polygon relates to a wider habitat survey) |        |

| Habitat Description | Number of Species | Number of Individuals | Number of Genera |
|---------------------|-------------------|-----------------------|------------------|
| 1. Open Field       | 15                | 120                   | 10               |
| 2. Forest Edge      | 20                | 180                   | 15               |
| 3. Wetland          | 18                | 150                   | 12               |
| 4. Grassland        | 12                | 90                    | 8                |
| 5. Shrubland        | 10                | 70                    | 7                |
| 6. Mountain Slope   | 22                | 200                   | 18               |
| 7. Desert           | 8                 | 60                    | 5                |
| 8. Tundra           | 14                | 110                   | 9                |
| 9. Coastal Plain    | 16                | 130                   | 11               |
| 10. Urban Area      | 9                 | 50                    | 6                |

|                 |
|-----------------|
| scattered trees |
|-----------------|

Covers the following topographical formations most commonly found in urban areas<sup>1</sup>:

**Individual Trees:** Young trees over 75mm in diameter measured at 1.5m from ground level and individual semi-mature and mature trees of significant stature and size that dominate their surroundings whose canopies are not touching but that are in close proximity to other trees.

**Perimeter Blocks:** Groups or stands of trees within and around boundaries of land, former field boundary trees incorporated into developments, individual trees in gardens whose canopies overlap continuously

**Linear Blocks:** Lines of trees along streets, highways, railways and canals whose canopies may or may not overlap continuously.

| Condition Assessment Criteria |                                                                                                                                                                                                                                                           | Condition Achieved (Y/N) | Notes/Justification |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------|
| 1                             | The tree is a native species(or more than 70% within the block are native species).                                                                                                                                                                       | Y                        |                     |
| 2                             | The tree canopy is predominantly continuous, with gaps in canopy cover making up <10% of total area and no individual gap being >5 m wide (individual trees automatically pass this criterion).                                                           | Y                        |                     |
| 3                             | The tree is mature <sup>2</sup> or veteran <sup>3</sup> (or more than 50% within the block are mature <sup>2</sup> or veteran <sup>3</sup> ).                                                                                                             | N                        |                     |
| 4                             | There is little or no evidence of an adverse impact on tree health by anthropogenic activities such as vandalism or herbicide use. There is no current regular pruning regime so the trees retain >75% of expected canopy for their age range and height. | Y                        |                     |

|                                                                |                                                                                                                  |                    |   |
|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------------------|---|
| 5                                                              | Micro-habitats for birds, mammals and insects are present e.g. presence of deadwood, cavities, ivy or loose bark | N                  |   |
| 6                                                              | More than 20% of the tree canopy area is oversailing vegetation beneath.                                         | Y                  |   |
| Number of criteria passed                                      |                                                                                                                  |                    | 4 |
| Condition Assessment Result                                    | Condition Assessment Score                                                                                       | Score Achieved x/✓ |   |
| Passes 5 or 6 of 6 criteria                                    | Good (3)                                                                                                         |                    |   |
| Passes 3 or 4 of 6 criteria                                    | Moderate (2)                                                                                                     | Yes                |   |
| Passes 0, 1 or 2 of 6 criteria                                 | Poor (1)                                                                                                         |                    |   |
| Suggested enhancement interventions to improve condition score |                                                                                                                  |                    |   |
|                                                                |                                                                                                                  |                    |   |

| Condition Sheet: WOODLAND Habitat Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                        |                                                                                       |                                                                                       |                     |                     |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------|---------------------|--|
| UKHab Habitat Type(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                        |                                                                                       |                                                                                       |                     |                     |  |
| Woodland and forest - Lowland beech and yew woodland<br>Woodland and forest - Lowland mixed deciduous woodland<br>Woodland and forest - Native pine woodlands<br>Woodland and forest - Other coniferous woodland<br>Woodland and forest - Other Scot's pine woodland<br>Woodland and forest - Other woodland; broadleaved<br>Woodland and forest - Other woodland; mixed<br>Woodland and forest - Upland birchwoods<br>Woodland and forest - Upland mixed ashwoods<br>Woodland and forest - Upland oakwood<br>Woodland and forest - Wet woodland |                                                                        |                                                                                       |                                                                                       |                     |                     |  |
| Site name/location                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | wood farm                                                              |                                                                                       | Onsite/offsite                                                                        | onsite              |                     |  |
| Habitat's Central Grid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                        |                                                                                       | Unique polygon                                                                        |                     |                     |  |
| Metric 3.0 survey reference (if condition assessment of this polygon relates to a wider habitat survey)                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                        |                                                                                       | Limitations (if applicable)                                                           |                     |                     |  |
| Habitat Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                        |                                                                                       |                                                                                       |                     |                     |  |
| Broadleaf woodland core mix                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                        |                                                                                       |                                                                                       |                     |                     |  |
| <a href="#">See UKHab</a><br>This condition sheet is based on the England Woodland Biodiversity Group (EWBG) Woodland Condition Survey Method, available here:<br><br><a href="#">Woodland Wildlife Toolkit (sylva.org.uk)</a>                                                                                                                                                                                                                                                                                                                   |                                                                        |                                                                                       |                                                                                       |                     |                     |  |
| Condition Assessment Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                        |                                                                                       |                                                                                       |                     |                     |  |
| Indicator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Good (3 points)                                                        | Moderate (2 points)                                                                   | Poor (1 point)                                                                        | Score per indicator | Notes/Justification |  |
| 1 Age distribution of trees <sup>1</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Three age classes present                                              | Two age classes present                                                               | One age class present                                                                 | 2                   |                     |  |
| 2 Wild, domestic and feral herbivore damage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | No significant browsing damage evident in woodland <sup>2</sup>        | Evidence of significant browsing pressure is present in 40% or less of whole woodland | Evidence of significant browsing pressure is present in 40% or more of whole woodland | 3                   |                     |  |
| 3 Invasive plant species <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | No invasive species present in woodland                                | Rhododendron or laurel not present, other invasive species < 10% cover                | Rhododendron or laurel present, or other invasive species > 10% cover                 | 3                   |                     |  |
| 4 Number of native tree species                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Five or more native tree or shrub species found across woodland parcel | Three to four native tree or shrub species found across woodland parcel               | None to two native tree or shrub species across woodland parcel                       | 3                   |                     |  |
| 5 Cover of native tree and shrub species                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | > 80% of canopy trees and >80% of understory shrubs are native         | 50-80% of canopy trees and 50-80% of understory shrubs are native                     | < 50% of canopy trees and <50% of understory shrubs are native                        | 3                   |                     |  |

|                                                                       |                                          |                                                                                                                                      |                                                                                                                                   |                                                                                                                            |                        |  |
|-----------------------------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|------------------------|--|
| 6                                                                     | Open space within woodland <sup>4</sup>  | 10 – 20% of woodland has areas of temporary open space, unless woodland is <10ha in which case lower threshold of 10% does not apply | 21- 40% of woodland has areas of temporary open space                                                                             | More than 40% of woodland has areas of temporary open space                                                                | 3                      |  |
| 7                                                                     | Woodland regeneration <sup>5</sup>       | All three classes present in woodland; trees 4-7cm dbh, saplings and seedlings or advanced coppice regrowth                          | One or two classes only present in woodland                                                                                       | No classes or coppice regrowth present in woodland                                                                         | 1                      |  |
| 8                                                                     | Tree health                              | Tree mortality less than 10%, no pests or diseases and no crown dieback                                                              | 11% to 25% mortality and/or crown dieback or low risk pest or disease present                                                     | Greater than 25% tree mortality and or any high risk pest or disease present                                               | 3                      |  |
| 9                                                                     | Vegetation and ground flora              | Ancient woodland flora indicators present                                                                                            | Recognisable NVC plant community present                                                                                          | No recognisable NVC community                                                                                              | 1                      |  |
| 10                                                                    | Woodland vertical structure <sup>6</sup> | Three or more storeys across all survey plots or a complex woodland                                                                  | Two storeys across all survey plots                                                                                               | One or less storey across all survey plots                                                                                 | 2                      |  |
| 11                                                                    | Veteran trees <sup>7</sup>               | Two or more veteran trees per hectare                                                                                                | One veteran tree per hectare                                                                                                      | No veteran trees present in woodland                                                                                       | 1                      |  |
| 12                                                                    | Amount of deadwood                       | 50% of all survey plots within the woodland parcel have standing deadwood, large dead branches/ stems and stumps                     | Between 25% and 50% of all survey plots within the woodland parcel have standing deadwood, large dead branches/ stems and stumps  | Less than 25% of all survey plots within the woodland parcel have standing deadwood, large dead branches/ stems and stumps | 1                      |  |
| 13                                                                    | Woodland disturbance <sup>8</sup>        | No nutrient enrichment or damaged ground evident                                                                                     | Less than 1 hectare in total of nutrient enrichment across woodland area and/or less than 20% of woodland area has damaged ground | More than 1 hectare of nutrient enrichment and/or more than 20% of woodland area has damaged ground                        | 2                      |  |
| <b>Total Score</b>                                                    |                                          |                                                                                                                                      |                                                                                                                                   |                                                                                                                            | <b>28</b>              |  |
| <b>Condition Assessment Result</b>                                    |                                          |                                                                                                                                      |                                                                                                                                   | <b>Condition Assessment Score</b>                                                                                          | <b>Result Achieved</b> |  |
| Total score >32 (33 to 39)                                            |                                          |                                                                                                                                      |                                                                                                                                   | Good (3)                                                                                                                   | moderate               |  |
| Total score 26 to 32                                                  |                                          |                                                                                                                                      |                                                                                                                                   | Moderate (2)                                                                                                               |                        |  |
| Total score <26 (13 to 25)                                            |                                          |                                                                                                                                      |                                                                                                                                   | Poor (1)                                                                                                                   |                        |  |
| <b>Suggested enhancement interventions to improve condition score</b> |                                          |                                                                                                                                      |                                                                                                                                   |                                                                                                                            |                        |  |
|                                                                       |                                          |                                                                                                                                      |                                                                                                                                   |                                                                                                                            |                        |  |

| Condition Sheet: WOODLAND Habitat Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                        |                                                                                       |                                                                                       |                     |                     |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------|---------------------|--|
| UKHab Habitat Type(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                        |                                                                                       |                                                                                       |                     |                     |  |
| Woodland and forest - Lowland beech and yew woodland<br>Woodland and forest - Lowland mixed deciduous woodland<br>Woodland and forest - Native pine woodlands<br>Woodland and forest - Other coniferous woodland<br>Woodland and forest - Other Scot's pine woodland<br>Woodland and forest - Other woodland; broadleaved<br>Woodland and forest - Other woodland; mixed<br>Woodland and forest - Upland birchwoods<br>Woodland and forest - Upland mixed ashwoods<br>Woodland and forest - Upland oakwood<br>Woodland and forest - Wet woodland |                                                                        |                                                                                       |                                                                                       |                     |                     |  |
| Site name/location                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | wood farm                                                              |                                                                                       | Onsite/offsite                                                                        | onsite              |                     |  |
| Habitat's Central Grid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                        |                                                                                       | Unique polygon                                                                        |                     |                     |  |
| Metric 3.0 survey reference (if condition assessment of this polygon relates to a wider habitat survey)                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                        |                                                                                       | Limitations (if applicable)                                                           |                     |                     |  |
| Habitat Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                        |                                                                                       |                                                                                       |                     |                     |  |
| Broadleaf woodland edge mix                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                        |                                                                                       |                                                                                       |                     |                     |  |
| <a href="#">See UKHab</a><br>This condition sheet is based on the England Woodland Biodiversity Group (EWBG) Woodland Condition Survey Method, available here:<br><br><a href="#">Woodland Wildlife Toolkit (sylva.org.uk)</a>                                                                                                                                                                                                                                                                                                                   |                                                                        |                                                                                       |                                                                                       |                     |                     |  |
| Condition Assessment Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                        |                                                                                       |                                                                                       |                     |                     |  |
| Indicator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Good (3 points)                                                        | Moderate (2 points)                                                                   | Poor (1 point)                                                                        | Score per indicator | Notes/Justification |  |
| 1 Age distribution of trees <sup>1</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Three age classes present                                              | Two age classes present                                                               | One age class present                                                                 | 1                   |                     |  |
| 2 Wild, domestic and feral herbivore damage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | No significant browsing damage evident in woodland <sup>2</sup>        | Evidence of significant browsing pressure is present in 40% or less of whole woodland | Evidence of significant browsing pressure is present in 40% or more of whole woodland | 3                   |                     |  |
| 3 Invasive plant species <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | No invasive species present in woodland                                | Rhododendron or laurel not present, other invasive species < 10% cover                | Rhododendron or laurel present, or other invasive species > 10% cover                 | 3                   |                     |  |
| 4 Number of native tree species                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Five or more native tree or shrub species found across woodland parcel | Three to four native tree or shrub species found across woodland parcel               | None to two native tree or shrub species across woodland parcel                       | 3                   |                     |  |
| 5 Cover of native tree and shrub species                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | > 80% of canopy trees and >80% of understory shrubs are native         | 50-80% of canopy trees and 50-80% of understory shrubs are native                     | < 50% of canopy trees and <50% of understory shrubs are native                        | 3                   |                     |  |

|                                                                |                                          |                                                                                                                                      |                                                                                                                                   |                                                                                                                            |                 |  |
|----------------------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-----------------|--|
| 6                                                              | Open space within woodland <sup>4</sup>  | 10 – 20% of woodland has areas of temporary open space, unless woodland is <10ha in which case lower threshold of 10% does not apply | 21- 40% of woodland has areas of temporary open space                                                                             | More than 40% of woodland has areas of temporary open space                                                                | 3               |  |
| 7                                                              | Woodland regeneration <sup>5</sup>       | All three classes present in woodland; trees 4-7cm dbh, saplings and seedlings or advanced coppice regrowth                          | One or two classes only present in woodland                                                                                       | No classes or coppice regrowth present in woodland                                                                         | 1               |  |
| 8                                                              | Tree health                              | Tree mortality less than 10%, no pests or diseases and no crown dieback                                                              | 11% to 25% mortality and/or crown dieback or low risk pest or disease present                                                     | Greater than 25% tree mortality and or any high risk pest or disease present                                               | 3               |  |
| 9                                                              | Vegetation and ground flora              | Ancient woodland flora indicators present                                                                                            | Recognisable NVC plant community present                                                                                          | No recognisable NVC community                                                                                              | 1               |  |
| 10                                                             | Woodland vertical structure <sup>6</sup> | Three or more storeys across all survey plots or a complex woodland                                                                  | Two storeys across all survey plots                                                                                               | One or less storey across all survey plots                                                                                 | 2               |  |
| 11                                                             | Veteran trees <sup>7</sup>               | Two or more veteran trees per hectare                                                                                                | One veteran tree per hectare                                                                                                      | No veteran trees present in woodland                                                                                       | 1               |  |
| 12                                                             | Amount of deadwood                       | 50% of all survey plots within the woodland parcel have standing deadwood, large dead branches/ stems and stumps                     | Between 25% and 50% of all survey plots within the woodland parcel have standing deadwood, large dead branches/ stems and stumps  | Less than 25% of all survey plots within the woodland parcel have standing deadwood, large dead branches/ stems and stumps | 1               |  |
| 13                                                             | Woodland disturbance <sup>8</sup>        | No nutrient enrichment or damaged ground evident                                                                                     | Less than 1 hectare in total of nutrient enrichment across woodland area and/or less than 20% of woodland area has damaged ground | More than 1 hectare of nutrient enrichment and/or more than 20% of woodland area has damaged ground                        | 2               |  |
| Total Score                                                    |                                          |                                                                                                                                      |                                                                                                                                   |                                                                                                                            | 27              |  |
| Condition Assessment Result                                    |                                          |                                                                                                                                      |                                                                                                                                   | Condition Assessment Score                                                                                                 | Result Achieved |  |
| Total score >32 (33 to 39)                                     |                                          |                                                                                                                                      |                                                                                                                                   | Good (3)                                                                                                                   | moderate        |  |
| Total score 26 to 32                                           |                                          |                                                                                                                                      |                                                                                                                                   | Moderate (2)                                                                                                               |                 |  |
| Total score <26 (13 to 25)                                     |                                          |                                                                                                                                      |                                                                                                                                   | Poor (1)                                                                                                                   |                 |  |
| Suggested enhancement interventions to improve condition score |                                          |                                                                                                                                      |                                                                                                                                   |                                                                                                                            |                 |  |
|                                                                |                                          |                                                                                                                                      |                                                                                                                                   |                                                                                                                            |                 |  |

| Condition Sheet: WOODLAND Habitat Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                        |                                                                                       |                                                                                       |                     |                     |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------|---------------------|--|
| UKHab Habitat Type(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                        |                                                                                       |                                                                                       |                     |                     |  |
| Woodland and forest - Lowland beech and yew woodland<br>Woodland and forest - Lowland mixed deciduous woodland<br>Woodland and forest - Native pine woodlands<br>Woodland and forest - Other coniferous woodland<br>Woodland and forest - Other Scot's pine woodland<br>Woodland and forest - Other woodland; broadleaved<br>Woodland and forest - Other woodland; mixed<br>Woodland and forest - Upland birchwoods<br>Woodland and forest - Upland mixed ashwoods<br>Woodland and forest - Upland oakwood<br>Woodland and forest - Wet woodland |                                                                        |                                                                                       |                                                                                       |                     |                     |  |
| Site name/location                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | wood farm                                                              |                                                                                       | Onsite/offsite                                                                        | onsite              |                     |  |
| Habitat's Central Grid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                        |                                                                                       | Unique polygon                                                                        |                     |                     |  |
| Metric 3.0 survey reference (if condition assessment of this polygon relates to a wider habitat survey)                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                        |                                                                                       | Limitations (if applicable)                                                           |                     |                     |  |
| Habitat Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                        |                                                                                       |                                                                                       |                     |                     |  |
| wet woodland                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                        |                                                                                       |                                                                                       |                     |                     |  |
| <a href="#">See UKHab</a><br>This condition sheet is based on the England Woodland Biodiversity Group (EWBG) Woodland Condition Survey Method, available here:<br><br><a href="#">Woodland Wildlife Toolkit (sylva.org.uk)</a>                                                                                                                                                                                                                                                                                                                   |                                                                        |                                                                                       |                                                                                       |                     |                     |  |
| Condition Assessment Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                        |                                                                                       |                                                                                       |                     |                     |  |
| Indicator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Good (3 points)                                                        | Moderate (2 points)                                                                   | Poor (1 point)                                                                        | Score per indicator | Notes/Justification |  |
| 1 Age distribution of trees <sup>1</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Three age classes present                                              | Two age classes present                                                               | One age class present                                                                 | 1                   |                     |  |
| 2 Wild, domestic and feral herbivore damage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | No significant browsing damage evident in woodland <sup>2</sup>        | Evidence of significant browsing pressure is present in 40% or less of whole woodland | Evidence of significant browsing pressure is present in 40% or more of whole woodland | 3                   |                     |  |
| 3 Invasive plant species <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | No invasive species present in woodland                                | Rhododendron or laurel not present, other invasive species < 10% cover                | Rhododendron or laurel present, or other invasive species > 10% cover                 | 3                   |                     |  |
| 4 Number of native tree species                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Five or more native tree or shrub species found across woodland parcel | Three to four native tree or shrub species found across woodland parcel               | None to two native tree or shrub species across woodland parcel                       | 3                   |                     |  |
| 5 Cover of native tree and shrub species                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | > 80% of canopy trees and >80% of understory shrubs are native         | 50-80% of canopy trees and 50-80% of understory shrubs are native                     | < 50% of canopy trees and <50% of understory shrubs are native                        | 3                   |                     |  |

|                                                                |                                          |                                                                                                                                      |                                                                                                                                   |                                                                                                                            |                 |  |
|----------------------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-----------------|--|
| 6                                                              | Open space within woodland <sup>4</sup>  | 10 – 20% of woodland has areas of temporary open space, unless woodland is <10ha in which case lower threshold of 10% does not apply | 21- 40% of woodland has areas of temporary open space                                                                             | More than 40% of woodland has areas of temporary open space                                                                | 3               |  |
| 7                                                              | Woodland regeneration <sup>5</sup>       | All three classes present in woodland; trees 4-7cm dbh, saplings and seedlings or advanced coppice regrowth                          | One or two classes only present in woodland                                                                                       | No classes or coppice regrowth present in woodland                                                                         | 1               |  |
| 8                                                              | Tree health                              | Tree mortality less than 10%, no pests or diseases and no crown dieback                                                              | 11% to 25% mortality and/or crown dieback or low risk pest or disease present                                                     | Greater than 25% tree mortality and or any high risk pest or disease present                                               | 3               |  |
| 9                                                              | Vegetation and ground flora              | Ancient woodland flora indicators present                                                                                            | Recognisable NVC plant community present                                                                                          | No recognisable NVC community                                                                                              | 1               |  |
| 10                                                             | Woodland vertical structure <sup>6</sup> | Three or more storeys across all survey plots or a complex woodland                                                                  | Two storeys across all survey plots                                                                                               | One or less storey across all survey plots                                                                                 | 2               |  |
| 11                                                             | Veteran trees <sup>7</sup>               | Two or more veteran trees per hectare                                                                                                | One veteran tree per hectare                                                                                                      | No veteran trees present in woodland                                                                                       | 1               |  |
| 12                                                             | Amount of deadwood                       | 50% of all survey plots within the woodland parcel have standing deadwood, large dead branches/ stems and stumps                     | Between 25% and 50% of all survey plots within the woodland parcel have standing deadwood, large dead branches/ stems and stumps  | Less than 25% of all survey plots within the woodland parcel have standing deadwood, large dead branches/ stems and stumps | 1               |  |
| 13                                                             | Woodland disturbance <sup>8</sup>        | No nutrient enrichment or damaged ground evident                                                                                     | Less than 1 hectare in total of nutrient enrichment across woodland area and/or less than 20% of woodland area has damaged ground | More than 1 hectare of nutrient enrichment and/or more than 20% of woodland area has damaged ground                        | 2               |  |
| Total Score                                                    |                                          |                                                                                                                                      |                                                                                                                                   |                                                                                                                            | 27              |  |
| Condition Assessment Result                                    |                                          |                                                                                                                                      |                                                                                                                                   | Condition Assessment Score                                                                                                 | Result Achieved |  |
| Total score >32 (33 to 39)                                     |                                          |                                                                                                                                      |                                                                                                                                   | Good (3)                                                                                                                   | moderate        |  |
| Total score 26 to 32                                           |                                          |                                                                                                                                      |                                                                                                                                   | Moderate (2)                                                                                                               |                 |  |
| Total score <26 (13 to 25)                                     |                                          |                                                                                                                                      |                                                                                                                                   | Poor (1)                                                                                                                   |                 |  |
| Suggested enhancement interventions to improve condition score |                                          |                                                                                                                                      |                                                                                                                                   |                                                                                                                            |                 |  |
|                                                                |                                          |                                                                                                                                      |                                                                                                                                   |                                                                                                                            |                 |  |

| Condition Sheet: WOODLAND Habitat Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                        |                                                                                       |                                                                                       |                     |                     |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------|---------------------|--|
| UKHab Habitat Type(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                        |                                                                                       |                                                                                       |                     |                     |  |
| Woodland and forest - Lowland beech and yew woodland<br>Woodland and forest - Lowland mixed deciduous woodland<br>Woodland and forest - Native pine woodlands<br>Woodland and forest - Other coniferous woodland<br>Woodland and forest - Other Scot's pine woodland<br>Woodland and forest - Other woodland; broadleaved<br>Woodland and forest - Other woodland; mixed<br>Woodland and forest - Upland birchwoods<br>Woodland and forest - Upland mixed ashwoods<br>Woodland and forest - Upland oakwood<br>Woodland and forest - Wet woodland |                                                                        |                                                                                       |                                                                                       |                     |                     |  |
| Site name/location                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | wood farm                                                              | Onsite/offsite                                                                        | onsite                                                                                |                     |                     |  |
| Habitat's Central Grid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                        | Unique polygon                                                                        |                                                                                       |                     |                     |  |
| Metric 3.0 survey reference (if condition assessment of this polygon relates to a wider habitat survey)                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                        | Limitations (if applicable)                                                           |                                                                                       |                     |                     |  |
| Habitat Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                        |                                                                                       |                                                                                       |                     |                     |  |
| proposed translocated trees                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                        |                                                                                       |                                                                                       |                     |                     |  |
| <a href="#">See UKHab</a><br>This condition sheet is based on the England Woodland Biodiversity Group (EWBG) Woodland Condition Survey Method, available here:<br><br><a href="#">Woodland Wildlife Toolkit (sylva.org.uk)</a>                                                                                                                                                                                                                                                                                                                   |                                                                        |                                                                                       |                                                                                       |                     |                     |  |
| Condition Assessment Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                        |                                                                                       |                                                                                       |                     |                     |  |
| Indicator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Good (3 points)                                                        | Moderate (2 points)                                                                   | Poor (1 point)                                                                        | Score per indicator | Notes/Justification |  |
| 1 Age distribution of trees <sup>1</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Three age classes present                                              | Two age classes present                                                               | One age class present                                                                 | 1                   |                     |  |
| 2 Wild, domestic and feral herbivore damage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | No significant browsing damage evident in woodland <sup>2</sup>        | Evidence of significant browsing pressure is present in 40% or less of whole woodland | Evidence of significant browsing pressure is present in 40% or more of whole woodland | 3                   |                     |  |
| 3 Invasive plant species <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | No invasive species present in woodland                                | Rhododendron or laurel not present, other invasive species < 10% cover                | Rhododendron or laurel present, or other invasive species > 10% cover                 | 3                   |                     |  |
| 4 Number of native tree species                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Five or more native tree or shrub species found across woodland parcel | Three to four native tree or shrub species found across woodland parcel               | None to two native tree or shrub species across woodland parcel                       | 2                   |                     |  |
| 5 Cover of native tree and shrub species                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | > 80% of canopy trees and >80% of understory shrubs are native         | 50-80% of canopy trees and 50-80% of understory shrubs are native                     | < 50% of canopy trees and <50% of understory shrubs are native                        | 3                   |                     |  |



## **Appendix 6: Proposed Bespoke Bat House Location**

Ref: 2289-22-03E

KEY

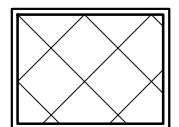


#### HEAVY STANDARD TREES

(Tree pit size: 1000x1000x750mm)  
12-14cm stem girth  
3.5-4.0m height  
1.9-2.1m clear stem  
Root wrapped  
Species  
Acer campestre  
Alnus glutinosa  
Betula pendula  
Betula pubescens  
Carpinus betulus  
Prunus avium  
Quercus palustris  
Quercus robur  
Sorbus aria  
Sorbus aucuparia  
Tilia cordata

#### NOTES

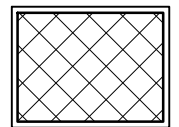
Prior to any planting please refer to soil implementation and management strategy plan for planted areas - prepared by others.



#### PROPOSED BROADLEAF WOODLAND CORE MIX (BWC)

(300mm depth of topsoil & 600mm depth subsoil)  
Where woodland or thicket is planted next to a hard surface/kerb/fence, it should be positioned 1m from the edge. Transplants to be planted in single species groups of 3-9 at 2.0m centres.

Refer to BCA drawing 2289-22-07 for Broadleaf Woodland Core detail & schedule

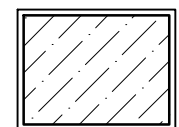


#### PROPOSED BROADLEAF WOODLAND EDGE MIX WITH SHRUB UNDER STOREY

(300mm depth of topsoil & 600mm depth subsoil)  
Where woodland or thicket is planted next to a hard surface/kerb/fence, it should be positioned 1m from the edge. Tree Species to be planted in single species groups of 3-5 at 2.5m centres and minimum 2.5m from larger stature trees. Shrubs to be planted in groups of 7-15 of the same species on a 1.5m grid.

| 25% Tree Species | Common Name      | Size         | Age       | Root/Pot Size |
|------------------|------------------|--------------|-----------|---------------|
| 2%               | Acer campestre   | Field Maple  | 600-800mm | 1+1 OG        |
| 4%               | Betula pendula   | Silver Birch | 600-800mm | 1+1 OG        |
| 1%               | Malus sylvestris | Crab Apple   | 600-800mm | 1+1 OG        |
| 1%               | Prunus avium     | Wild Cherry  | 600-800mm | 1+1 OG        |
| 1%               | Pyrus communis   | Pear         | 600-800mm | 1+1 OG        |
| 5%               | Pinus sylvestris | Scotts pine  | 600-800mm | 2+2 OG        |
| 3%               | Quercus ilex     | Holm Oak     | 600-800mm | 1u1 OG        |
| 5%               | Quercus robur    | English Oak  | 600-800mm | 1u1 OG        |
| 3%               | Sorbus aucuparia | Rowan        | 600-800mm | 1+1 OG        |

| 75% Shrubs Species | Common Name         | Size             | Age       | Root/Pot Size |
|--------------------|---------------------|------------------|-----------|---------------|
| 6%                 | Cornus sanguinea    | Dogwood          | 600-800mm | 1+1 OG        |
| 21%                | Corylus avellana    | Hazel            | 600-800mm | 1u1 OG        |
| 11%                | Crataegus laevigata | Midland Hawthorn | 600-800mm | 1+1 OG        |
| 18%                | Crataegus monogyna  | Hawthorn         | 600-800mm | 1+1 OG        |
| 10%                | Ilex aquifolium     | Holly            | 600-800mm | 2L            |
| 9%                 | Ligustrum vulgare   | Wild Privet      | 600-800mm | 1+1 OG        |

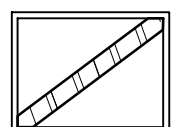


#### PROPOSED WET WOODLAND MIX WITH SHRUB UNDER STOREY

(300mm depth of topsoil & 600mm depth subsoil)  
Tree Species to be planted in single species groups of 3-5 at 2.5m centres and minimum 2.5m from larger stature trees. Shrubs to be planted in groups of 7-15 of the same species on a 1.5m grid.

| 75% Tree Species | Common Name         | Size         | Age       | Root/Pot Size |
|------------------|---------------------|--------------|-----------|---------------|
| 20%              | Alnus glutinosa     | Black Alder  | 600-800mm | 1+1 OG        |
| 15%              | Betula nigra        | River Birch  | 100-125mm | 1+2 OG        |
| 7%               | Betula pubescens    | Downy Birch  | 600-800mm | 1+1 OG        |
| 5%               | Rhamnus catharticus | Buckthorn    | 600-800mm | 1+1 OG        |
| 8%               | Salix alba          | White Willow | 600-800mm | 0/1 OG        |
| 15%              | Salix fragilis      | Crack Willow | 600-800mm | 0/1 OG        |
| 5%               | Salix viminalis     | Osier Willow | 600-800mm | 0/1 OG        |

| 25% Shrubs Species | Common Name        | Size          | Age       | Root/Pot Size |
|--------------------|--------------------|---------------|-----------|---------------|
| 4%                 | Corylus avellana   | Hazel         | 600-800mm | 1u1 OG        |
| 5%                 | Euonymus europaeus | Spindle       | 600-800mm | 1+1 OG        |
| 10%                | Crataegus monogyna | Hawthorn      | 600-800mm | 1+1 OG        |
| 6%                 | Viburnum opulus    | Gueldeer Rose | 600-800mm | 1+1 OG        |



#### PROPOSED INDIGENOUS HEDGEROW

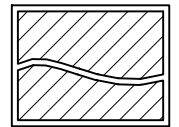
(300mm depth of topsoil & 600mm depth subsoil)  
Planted at 450mm centres in a double staggered row. Rows to be 500mm apart.

| % Species | Common Name         | Size             | Age       | Root   |
|-----------|---------------------|------------------|-----------|--------|
| 5%        | Acer campestre      | Field Maple      | 600-800mm | 1+1 OG |
| 20%       | Corylus avellana    | Hazel            | 600-800mm | 1u1 OG |
| 10%       | Crataegus laevigata | Midland Hawthorn | 600-800mm | 1+1 OG |
| 30%       | Crataegus monogyna  | Hawthorn         | 600-800mm | 1+1 OG |
| 10%       | Ilex aquifolium     | Holly            | 600-800mm | 2L     |
| 5%        | Ligustrum vulgare   | Wild Privet      | 600-800mm | 1+1 OG |
| 10%       | Pinus spinoza       | Blackthorn       | 600-800mm | 1+1 OG |
| 10%       | Viburnum opulus     | Gueldeer Rose    | 600-800mm | 1+1 OG |



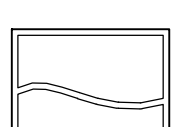
#### SPECIMEN SHRUBS

(300mm depth of topsoil)  
Refer to BCA drawing 2289-22-04 & 05 for ornamental planting detail.



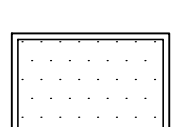
#### TALL ORNAMENTAL SHRUB PLANTING

(300mm depth of topsoil + minimum 300mm depth subsoil)  
Ultimate plant height is above 1m.  
Refer to BCA drawing 2289-22-04 & 05 for ornamental planting detail.



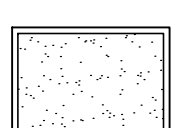
#### LOW ORNAMENTAL SHRUB/HERBACEOUS PLANTING

(300mm depth of topsoil + minimum 300mm depth subsoil)  
Ultimate plant height is below 1m.  
Refer to BCA drawing 2289-22-04 & 05 for ornamental planting detail.



#### GRASS SEEDED AREAS

(150mm depth of topsoil + minimum 150mm depth subsoil)  
To be sown with DLF PM 120 'Slowgrowth' or similar approved  
Sown at a rate of 35-50g/m²



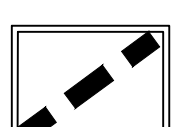
#### SPECIES RICH GRASSLAND SEEDED AREAS

(Cultivated subsoil to a depth of 300mm)  
To be sown with Emorsgate EM2 or similar approved  
Sown at a rate of 4 g/m²



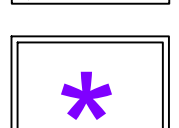
#### SPECIES RICH WETLAND GRASS SEEDED AREAS

(Cultivated subsoil to a depth of 300mm)  
To be sown with Emorsgate EP1 or similar approved  
Sown at a rate of 4 g/m²

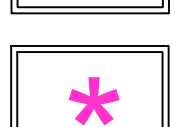


#### RETAINING STRUCTURES

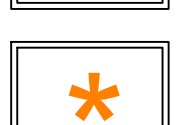
All retaining structures to engineers specification.



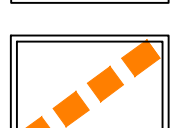
#### PROPOSED TRIM TRAIL EQUIPMENT LOCATIONS



#### PROPOSED SIGNAGE LOCATION

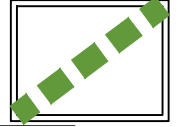


#### PROPOSED BAT HOUSE LOCATION, SUBJECT TO AGREED DESIGN WITH NATURAL ENGLAND



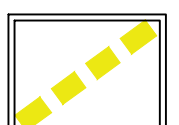
#### PUBLIC RIGHT OF WAY ROUTE

To match foot path surfacing in Bardon 1. Min. width 2.6m  
Refer to typical detail on drawing 2289-22-01.



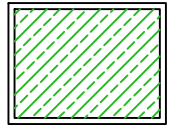
#### PROPOSED TRANSLOCATED HEDGEROWS

Total length to be confirmed on site. To include hedgerow trees. If translocated hedgerow fails to be replaced with native



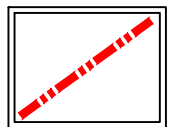
#### FOOT PATH

To match foot path surfacing in Bardon 1. Min. width 2.6m  
Refer to typical detail on drawing 2289-22-01.



#### PROPOSED AREAS FOR TRANSLOCATED TREE STOCK

Number of suitable trees to be identified on site. If translocated specimens fail, replacement with Extra Heavy Standard (14-16cm) trees of similar species to be planted. Trees to be min. 7m apart (approx. numbers shown on plan)



#### SITE BOUNDARY

Planting detail continued on BCA drawing 2289-22-02

| PROPOSED BROADLEAF WOODLAND CORE MIX WITH SHRUB UNDER STOREY (1569m²) |                     |     |
|-----------------------------------------------------------------------|---------------------|-----|
| Under seeded with Emorsgate EG10 - Tussock Grass Mix                  |                     |     |
| 75% Tree Species                                                      | Qty.                |     |
| 8%                                                                    | Acer campestre      | 13  |
| 13%                                                                   | Betula pendula      | 27  |
| 5%                                                                    | Malus sylvestris    | 6   |
| 5%                                                                    | Pinus sylvestris    | 34  |
| 7%                                                                    | Prunus avium        | 6   |
| 7%                                                                    | Pyrus communis      | 6   |
| 5%                                                                    | Quercus ilex        | 34  |
| 15%                                                                   | Quercus robur       | 20  |
| 10%                                                                   | Sorbus aucuparia    | 20  |
| 25% Shrubs Species                                                    | Qty.                |     |
| 2%                                                                    | Cornus sanguinea    | 42  |
| 7%                                                                    | Corylus avellana    | 146 |
| 2%                                                                    | Crataegus laevigata | 77  |
| 6%                                                                    | Crataegus monogyna  | 125 |
| 5%                                                                    | Ilex aquifolium     | 70  |
| 3%                                                                    | Ligustrum vulgare   | 64  |
| TOTAL                                                                 | 691                 |     |

UNIT 2  
BREAKOUT  
SPACE

| PROPOSED INDIGENOUS HEDGEROW (78Lin. m)            |                     |     |
|----------------------------------------------------|---------------------|-----|
| Planted at 450mm centres in a double staggered row |                     |     |
| % Species                                          | Qty.                |     |
| 5%                                                 | Acer campestre      | 17  |
| 20%                                                | Corylus avellana    | 69  |
| 10%                                                | Crataegus laevigata | 35  |
| 30%                                                | Crataegus monogyna  | 104 |
| 10%                                                | Ilex aquifolium     | 35  |
| 5%                                                 | Ligustrum vulgare   | 17  |
| 10%                                                | Prunus spinoza      | 35  |
| 10%                                                | Viburnum opulus     | 35  |
| TOTAL                                              | 347                 |     |

BWC 4 (889m²) - 223 plants Total.  
Refer to BCA drawing 2289-22-07 for Broadleaf Woodland Core detail & schedule

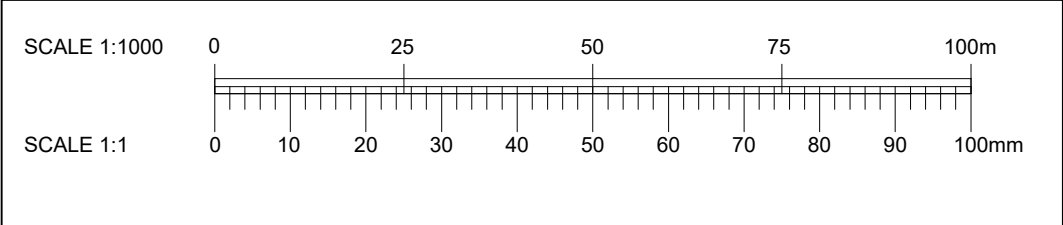
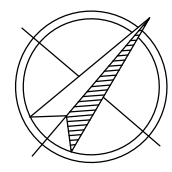
PROPOSED WET WOODLAND MIX WITH SHRUB UNDER STOREY (1858m²)  
Under seeded with Emorsgate EM8 - Meadow Mixture for Wetlands

| 75% | Tree Species        | Qty. |
|-----|---------------------|------|
| 20% | Alnus glutinosa     | 164  |
| 15% | Betula nigra        | 123  |
| 7%  | Betula pubescens    | 57   |
| 5%  | Rhamnus catharticus | 41   |
| 8%  | Salix alba          | 65   |
| 15% | Salix fragilis      | 123  |
| 5%  | Salix viminalis     | 41   |

|       |                    |      |
|-------|--------------------|------|
| 25%   | Shrubs Species     | Qty. |
| 4%    | Corylus avellana   | 32   |
| 5%    | Euonymus europaeus | 41   |
| 10%   | Crataegus monogyna | 82   |
| 6%    | Viburnum opulus    | 49   |
| TOTAL |                    | 818  |

| PROPOSED WET WOODLAND MIX WITH SHRUB UNDER STOREY (2914m²)    |                     |     |
|---------------------------------------------------------------|---------------------|-----|
| Under seeded with Emorsgate EM8 - Meadow Mixture for Wetlands |                     |     |
| 75% Tree Species                                              | Qty.                |     |
| 20%                                                           | Alnus glutinosa     | 256 |
| 15%                                                           | Betula nigra        | 192 |
| 7%                                                            | Betula pubescens    | 90  |
| 5%                                                            | Rhamnus catharticus | 64  |
| 8%                                                            | Salix alba          | 103 |
| 15%                                                           | Salix fragilis      | 192 |
| 5%                                                            | Salix viminalis     | 64  |
| 25% Shrubs Species                                            | Qty.                |     |
| 4%                                                            | Corylus avellana    | 52  |
| 5%                                                            | Euonymus europaeus  | 64  |
| 10%                                                           | Crataegus monogyna  | 128 |
| 6%                                                            | Viburnum opulus     | 77  |
| TOTAL                                                         | 1282                |     |

| PROPOSED BROADLEAF WOODLAND EDGE MIX WITH SHRUB UNDER STOREY (728m²) |                     |    |
|----------------------------------------------------------------------|---------------------|----|
| Under seeded with Emorsgate EG10 - Tussock Grass Mix                 |                     |    |
| 25% Tree Species                                                     | Qty.                |    |
| 2%                                                                   | Acer campestre      | 6  |
| 4%                                                                   | Betula pendula      | 12 |
| 1%                                                                   | Malus sylvestris    | 3  |
| 5%                                                                   | Pinus sylvestris    | 16 |
| 1%                                                                   | Prunus avium        | 3  |
| 1%                                                                   | Pyrus communis      | 3  |
| 3%                                                                   | Quercus ilex        | 9  |
| 5%                                                                   | Quercus robur       | 16 |
| 3%                                                                   | Sorbus aucuparia    | 9  |
| 75% Shrubs Species                                                   | Qty.                |    |
| 6%                                                                   | Cornus sanguinea    | 20 |
| 21%                                                                  | Corylus avellana    | 67 |
| 11%                                                                  | Crataegus laevigata | 36 |
| 18%                                                                  | Crataegus monogyna  | 58 |
| 10%                                                                  | Ilex aquifolium     | 33 |
| 9%                                                                   | Ligustrum vulgare   | 29 |
| TOTAL                                                                | 321                 |    |



| PROPOSED BROADLEAF WOODLAND EDGE MIX WITH SHRUB UNDER STOREY (1469m²) |                     |     |
|-----------------------------------------------------------------------|---------------------|-----|
| Under seeded with Emorsgate EG10 - Tussock Grass Mix                  |                     |     |
| 25% Tree Species                                                      | Qty.                |     |
| 2%                                                                    | Acer campestre      | 12  |
| 4%                                                                    | Betula pendula      | 25  |
| 1%                                                                    | Malus sylvestris    | 6   |
| 1%                                                                    | Pinus sylvestris    | 32  |
| 1%                                                                    | Prunus avium        | 6   |
| 1%                                                                    | Pyrus communis      | 6   |
| 3%                                                                    | Quercus ilex        | 19  |
| 5%                                                                    | Quercus robur       | 32  |
| 3%                                                                    | Sorbus aucuparia    | 19  |
| 75% Shrubs Species                                                    | Qty.                |     |
| 6%                                                                    | Cornus sanguinea    | 40  |
| 21%                                                                   | Corylus avellana    | 136 |
| 11%                                                                   | Crataegus laevigata | 72  |
| 18%                                                                   | Crataegus monogyna  | 117 |
| 10%                                                                   | Ilex aquifolium     | 65  |
| 9%                                                                    | Ligustrum vulgare   | 60  |
| TOTAL                                                                 | 647                 |     |

| PROPOSED BROADLEAF WOODLAND EDGE MIX WITH SHRUB UNDER STOREY (590m²) |                     |    |
|----------------------------------------------------------------------|---------------------|----|
| Under seeded with Emorsgate EG10 - Tussock Grass Mix                 |                     |    |
| 25% Tree Species                                                     | Qty.                |    |
| 2%                                                                   | Acer campestre      | 5  |
| 4%                                                                   | Betula pendula      | 10 |
| 1%                                                                   | Malus sylvestris    | 2  |
| 5%                                                                   | Pinus sylvestris    | 13 |
| 1%                                                                   | Prunus avium        | 2  |
| 1%                                                                   | Pyrus communis      | 2  |
| 3%                                                                   | Quercus ilex        | 8  |
| 5%                                                                   | Quercus robur       | 13 |
| 3%                                                                   | Sorbus aucuparia    | 7  |
| 75% Shrubs Species                                                   | Qty.                |    |
| 6%                                                                   | Cornus sanguinea    | 16 |
| 21%                                                                  | Corylus avellana    | 55 |
| 11%                                                                  | Crataegus laevigata | 29 |
| 18%                                                                  | Crataegus monogyna  | 47 |
| 10%                                                                  | Ilex aquifolium     | 24 |
| 9%                                                                   | Ligustrum vulgare   | 24 |
| TOTAL                                                                | 260                 |    |

BWC 7 (1687m²) - 147 plants Total.  
Refer to BCA drawing 2289-22-07 for Broadleaf Woodland Core detail & schedule

| PROPOSED BROADLEAF WOODLAND EDGE MIX WITH SHRUB UNDER STOREY (1093m²) |                     |     |
|-----------------------------------------------------------------------|---------------------|-----|
| Under seeded with Emorsgate EG10 - Tussock Grass Mix                  |                     |     |
| 25% Tree Species                                                      | Qty.                |     |
| 2%                                                                    | Acer campestre      | 59  |
| 4%                                                                    | Betula pendula      | 118 |
| 1%                                                                    | Malus sylvestris    | 30  |
| 5%                                                                    | Pinus sylvestris    | 148 |
| 1%                                                                    | Prunus avium        | 30  |
| 1%                                                                    | Pyrus communis      | 30  |
| 3%                                                                    | Quercus ilex        | 89  |
| 5%                                                                    | Quercus robur       | 148 |
| 3%                                                                    | Sorbus aucuparia    | 89  |
| 75% Shrubs Species                                                    | Qty.                |     |
| 6%                                                                    | Cornus sanguinea    | 177 |
| 21%                                                                   | Corylus avellana    | 621 |
| 11%                                                                   | Crataegus laevigata | 325 |
| 18%                                                                   | Crataegus monogyna  | 532 |
| 10%                                                                   | Ilex aquifolium     | 296 |
| 9%                                                                    | Ligustrum vulgare   | 266 |
| TOTAL                                                                 | 2689                |     |

| PROPOSED BROADLEAF WOODLAND EDGE MIX WITH SHRUB UNDER STOREY (1119m²) |                     |     |
|-----------------------------------------------------------------------|---------------------|-----|
| Under seeded with Emorsgate EG10 - Tussock Grass Mix                  |                     |     |
| 25% Tree Species                                                      | Qty.                |     |
| 2%                                                                    | Acer campestre      | 9   |
| 4%                                                                    | Betula pendula      | 19  |
| 1%                                                                    | Malus sylvestris    | 5   |
| 5%                                                                    | Pinus sylvestris    | 24  |
| 1%                                                                    | Prunus avium        | 5   |
| 1%                                                                    | Pyrus communis      | 5   |
| 3%                                                                    | Quercus ilex        | 14  |
| 5%                                                                    | Quercus robur       | 24  |
| 3%                                                                    | Sorbus aucuparia    | 14  |
| 75% Shrubs Species                                                    | Qty.                |     |
| 6%                                                                    | Cornus sanguinea    | 30  |
| 21%                                                                   | Corylus avellana    | 104 |
| 11%                                                                   | Crataegus laevigata | 55  |
| 18%                                                                   | Crataegus monogyna  | 89  |
| 10%                                                                   | Ilex aquifolium     | 50  |
| 9%                                                                    | Ligustrum vulgare   | 46  |
| TOTAL                                                                 | 493                 |     |

BWC 6 (665m²) - 167 plants Total.  
Refer to BCA drawing 2289-22-07 for Broadleaf Woodland Core detail & schedule

| PROPOSED BROADLEAF WOODLAND EDGE MIX WITH SHRUB UNDER STOREY (990m²) |                     |    |
|----------------------------------------------------------------------|---------------------|----|
| Under seeded with Emorsgate EG10 - Tussock Grass Mix                 |                     |    |
| 25% Tree Species                                                     | Qty.                |    |
| 2%                                                                   | Acer campestre      | 8  |
| 4%                                                                   | Betula pendula      | 17 |
| 1%                                                                   | Malus sylvestris    | 4  |
| 5%                                                                   | Pinus sylvestris    | 21 |
| 1%                                                                   | Prunus avium        | 4  |
| 1%                                                                   | Pyrus communis      | 4  |
| 3%                                                                   | Quercus ilex        | 13 |
| 5%                                                                   | Quercus robur       | 21 |
| 3%                                                                   | Sorbus aucuparia    | 13 |
| 75% Shrubs Species                                                   | Qty.                |    |
| 6%                                                                   | Cornus sanguinea    | 27 |
| 21%                                                                  | Corylus avellana    | 92 |
| 11%                                                                  | Crataegus laevigata | 47 |
| 18%                                                                  | Crataegus monogyna  | 79 |
| 10%                                                                  | Ilex aquifolium     | 44 |
| 9%                                                                   | Ligustrum vulgare   | 41 |
| TOTAL                                                                | 436                 |    |

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## DRAWING LOCATION PLAN - NTS



| REV | DESCRIPTION                            | BY    | CHKD | DATE     |
|-----|----------------------------------------|-------|------|----------|
| E   | PROW alignment amended                 | JL    | JL   | 03-04-23 |
| D   | Key annotation amended                 | JL    | JL   | 28-03-23 |
| C   | Bat House added                        | JL    | JL   | 28-03-23 |
| B   | Notes added to drawing key             | JL/HC | MB   | 25-01-22 |
| A   | Woodland mix updated and hedging added | JL/HC | MB   | 24-01-22 |



CLIENT

WOOD FARM HOLDINGS

PROJECT

LAND AT WOOD FARM,  
STANTON LANE

DRAWING

DETAILED PLANTING PLAN  
(Sheet 3 of 5)

| CONTRACT |
|----------|
|----------|

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