

**Land off South View, Darfield**  
**Ecological Impact Assessment**

**21<sup>st</sup> May 2025**



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<b>Site Name</b> South View	<b>Site Address</b> Darfield, Barnsley S73 9LW
<b>Local Authority</b> Barnsley Metropolitan Borough Council	<b>Grid Reference</b> SE 41160 04303
<b>Surveyors</b> Robert Bell MCIEEM & Peter Middleton MCIEEM	<b>Dates of Survey</b> 19/05/2025, 16/08/2023 & 16/07/2020
<b>Soilscape</b> Freely draining slightly acid loamy soils	<b>Designation of Site</b> None
<b>UK Habitat Classification habitats on Site</b> Habitats: g3c6 – <i>Lolium-Cynosurus</i> neutral grassland, g4 – modified grassland, u1b5 – buildings, u1b6 – other developed land, h2a – other native hedgerow  Secondary codes: 10 – scattered scrub, 32 – scattered trees, 33 – line of trees, 81 – ruderal or ephemeral, 102 – sheep grazed, 103 – horse grazed	
<b>Protected/Notable Species, Constraints on Site</b> Nesting birds, hedgehog, various bat species	
<b>HPIs and SPIs under NERC Act 2006</b> Hedgerow, birds (house sparrow, linnet, swift), various bat species	

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## 1. Summary

- 1.1.1 This Ecological Impact Assessment (EclA) of Land Off South View, Darfield was commissioned by James Roberts of JR Planning on behalf of the client, Jason Hughes, on 5<sup>th</sup> July 2023. An update walkover survey was commissioned on 14<sup>th</sup> May 2025.
- 1.1.2 The survey was commissioned to inform a planning application for a residential development comprising 33 units.
- 1.1.3 No impacts upon designated sites are anticipated because of the nature and scale of the development and distance from the designated site.
- 1.1.4 All habitats and species present were considered to be of no greater than Site level importance.
- 1.1.5 The likely unmitigated impacts of the development were considered to comprise:
- The net loss of 3.62 grassland and 0.3 individual tree Habitat Units, partially offset by an increase of 0.56 heathland and scrub and 0.61 urban Habitat Units, and 0.23 Hedgerow Units.
  - Damage to the root systems of existing hedgerow plants and trees as a result of construction works.
  - A small loss of foraging habitat for hedgehogs, bats, birds, and invertebrates.
  - The loss of bird nesting habitat and the potential removal of active birds' nests.
  - Increased lighting affecting nocturnal species such as hedgehogs, bats, nocturnal invertebrates and some birds.
  - Biosecurity risks as a result of bringing in plants, seeds and soil for landscaping.
- 1.1.6 The following mitigation, compensation and enhancements are details:
- Implementation of root protection zones for retained trees and shrubs.
  - Implementation of the Landscape Masterplan and development and implementation of a Landscape Management Plan. Plants to be sourced from UK nurseries and imported soil to meet appropriate British Standards. Peat free compost to be used.
  - The removal of vegetation and demolition of buildings outside the nesting bird season (March-August), or following a check for active nests to be undertaken by an ecologist.
  - The inclusion of hedgehog holes, bat boxes and swift bricks within each new dwelling on the development.
  - The use of bat safe roofing membranes.
  - Lighting restrictions to protect nocturnal species.
- 1.1.7 The proposed development is expected to result in a loss of 2.76 Habitat Units (a 56.64 % net loss), with a projected gain of 0.23 Hedgerow Units (a 34.42 % net gain).
- 1.1.8 The results of this survey and report are considered to be valid for a period of 24 months. After this time Middleton Bell Ecology should be contacted to determine the need for update survey

## 2. Introduction

- 2.1.1 This Ecological Impact Assessment (EclA) of Land Off South View, Darfield was commissioned by James Roberts of JR Planning on behalf of the client, Jason Hughes, on 5<sup>th</sup> July 2023. An update walkover survey was commissioned on 14<sup>th</sup> May 2025.
- 2.1.2 A previous Preliminary Ecological Appraisal covering the majority of the site was undertaken in 2020 (MBE, 2020), with the findings of the original survey considered when writing this report.
- 2.1.3 The survey was commissioned to inform a planning application for a residential development comprising 33 units (Application Reference Number 2025/0127). The proposed Landscape Masterplan is shown in Appendix 1. Outline planning permission was granted in 2020 (Application Reference Number: 2020/1284) for an application to construct 20 dwellings on the larger western section of the site. The new application includes the field to the northeast and comprises a changed layout and increased number of proposed dwellings.
- 2.1.4 The purpose of this report is to present the findings of a UK Habitat Classification survey together with determining the potential for, or presence of, protected and notable species. An appended map of the site shows the habitats present. Where impacts can be confidently determined, recommendations in relation to avoiding, mitigating and compensating for these impacts are included in this report, together with biodiversity enhancement recommendations. Proposed scheme impacts have also been calculated using The Statutory Biodiversity Metric (Defra, 2023).
- 2.1.5 Key legislation relating to designated sites, protected species, and habitats is detailed in Appendix 2. The implications of legislation are detailed in the body of the report where applicable.

## 3. Site Description

- 3.1.1 The application site is located in a largely residential area off South View in the village of Darfield, approximately 6.5 km east-southeast of Barnsley town centre. The site consists of approximately 1 ha of land located on a north-south orientated slope in the valley of the River Dove. The land comprised predominantly *Lolium-Cynosurus* neutral grassland/pasture and was composed of a large rectangular western field (Field 1, Appendix 3), including a separate compound with a small belt of grassland to the north (Field 2) and a connected northeastern field (Field 3). Aside from areas of pasture, a central compound (located south of Field 2) comprised mainly modified grassland, together with some dilapidated buildings, a small former orchard and various abandoned vehicles. In the eastern corner of the site was a second small compound comprising several storage buildings and other developed land. A native hedgerow was present on the site's western boundary, with a second smaller hedgerow in the centre of the site. A treeline was present on the eastern boundary of the central compound. Further scattered individual trees were present on the northern boundary/embankment of the western field and on the edge and within the central compound. Areas of scattered scrub and scattered bracken were also present in the western field.
- 3.1.2 With the exception of pasture fields adjacent to the western boundary, residential development and associated roads surround the site. Beyond the residential area,

located c. 300 m south of Snape Hill Road is the River Dove and the connected River Dearne floodplain including the Broomhill Flash and Wombwell Ings wetlands. The site had good connectivity to undeveloped land to the west, however housing was located on the opposite side of South View to the north, with housing to the south and Snape Hill Road, with additional housing to the east.

- 3.1.3 The site falls within National Character Area 38: The Nottinghamshire, Derbyshire and Yorkshire Coalfield. This National Character Area comprises a generally low-lying area, with hills and escarpments above wide valleys, the landscape embraces major industrial towns and cities as well as villages and countryside. Over half of the NCA is currently designated as greenbelt land; this maintains some distinction between settlements and represents areas that are often under pressure for development and changes in land use. The landscape is dotted with many pockets and patches of habitat where species find refuge. This is often on land that was once worked for minerals or occupied by major industry.
- 3.1.4 The naturally occurring soils in the area comprise freely draining slightly acid loamy soils.

**Figure 1. The site location, as indicated by red line**



## 4. Methodology

### 4.1 Data Consultation

4.1.1 Barnsley Biological Records Centre were contacted in 2024 to request the following information for locations within a 1.5 km radius of the site:

- Protected and notable species records.
- The boundaries of non-statutory designated sites of nature conservation interest.

4.1.2 A search of the Multi-Agency Geographical Information for the Countryside website was undertaken to determine the following:

- The boundaries of statutory designated sites of nature conservation interest.
- The locations of historic European Protected Species (EPS) licences granted by Natural England.
- The presence of great crested newt *Triturus cristatus* records included in either the Class Survey Licence Returns or 2017-2019 Pond Surveys datasets.

### 4.2 Field Survey

4.2.1 The site was re-surveyed on 19<sup>th</sup> May 2025, following a survey on 16<sup>th</sup> August 2023 using the UK Habitat Classification survey methodology (UKHab Ltd., 2023). Both survey visits were undertaken by Robert Bell (MCIEEM). A preceding survey covering the majority of the site was undertaken by Peter Middleton (MCIEEM) on 16<sup>th</sup> July 2020, who surveyed the site using the extended Phase 1 habitat survey methodology (JNCC, 2010).

4.2.2 Robert Bell is a competent botanist with more than 16 years' experience of undertaking botanical surveys including appraisals of Local Wildlife Sites (LWSs) in Barnsley. Peter Middleton is a competent botanist who was a major contributor to the South Yorkshire Plant Atlas (Wilmore *et. al.*, 2011). He has more than 20 years' experience of undertaking botanical surveys including appraisals of Local Wildlife Sites (LWSs) in Barnsley, Doncaster and East Yorkshire, as well as National Vegetation Classification (NVC) survey in the Yorkshire Dales National Park.

4.2.3 The surveyors methodically covered the site, searching for notable, rare or scarce plant species and evidence of protected species including bats and species of nature conservation importance (including a search of suitable features for signs of bats). Features of interest are presented on the UK Habitat Classification plan, using Secondary Codes and Target Notes.

4.2.4 Aerial photographs (Google Earth, Bing Mapping, and ESRI imagery) and Ordnance Survey mapping were studied to consider the wider context and to look for ecological features that would not be evident on the ground during the walkover survey. This is particularly useful for identifying wildlife corridors and ponds.

4.2.5 Habitats of Principal Importance (HPIs) and Species of Principal Importance (SPIs) included on Section 41 of the Natural Environment and Rural Communities (NERC) Act 2006 were recorded. Any priority species and habitats included on the Local Biodiversity Action Plan (LBAP) were also noted if present.

### **4.3 Method of Assessment**

- 4.3.1 In line with CIEEM guidelines (CIEEM, 2017) the survey results were used to identify any ecological constraints to the proposed development, any further surveys, and any mitigation measures likely to be required. Opportunities for ecological enhancement measures were also included where possible.
- 4.3.2 The value and sensitivity of ecological features present on site were determined based on the guidance provided within 'Guidelines on Ecological Impact Assessment in the UK and Ireland' (CIEEM, 2018). Individual ecological receptors (habitats and species that could be affected by the development) were assigned a geographic level of importance for nature conservation. The highest level is international, decreasing through national, regional, county, local and lastly site importance.

### **4.4 Biodiversity Calculation**

- 4.4.1 The Statutory Biodiversity Metric (Defra, 2023) was used to calculate the ecological impact of this scheme. This metric uses habitat as a proxy for wider biodiversity with different habitat types scored according to their relative biodiversity value. This value is then adjusted depending on the condition and location of the habitat, to calculate 'biodiversity units'. The Statutory Biodiversity Metric incorporates similar but separate calculations for habitats that require a different method of measurement such as hedgerows, lines of trees, rivers, streams and street trees. Calculations are undertaken in a purpose designed spreadsheet, which provides the main output of the process.

### **4.5 Survey Limitations**

- 4.5.1 No limitations to an effective UK Habitat Classification survey were encountered.

## 5. Ecological Baseline

### 5.1 Data Consultation

- 5.1.1 The locations of statutory and non-statutory designated sites are shown in Appendix 3. Designated sites present within 1.5 km of the site are detailed in Table 1.

**Table 1. Designated sites**

Designation	Name	Interest	Distance and direction to site
Site of Special Scientific Interest (SSSI)	Dearne Valley Wetlands	Dearne Valley Wetlands comprises a number of discrete sites which together support nationally important assemblages of breeding birds of lowland damp grassland, lowland open water and their margins and scrub, plus nationally important numbers of some individual species of breeding water birds.	312 m south

- 5.1.2 The site is included in the Dearne Valley Nature Improvement Area which covers a single extensive area taking in parts of Barnsley, Doncaster and Rotherham. Nature Improvement Areas are large, discrete areas where a local partnership has a shared vision for their natural environment. Due to the site's presence within the Dearne Valley Nature Improvement Area the site was considered to be located within an area 'formally identified in local strategy' when undertaking calculations using The Statutory Biodiversity Metric.
- 5.1.3 No ancient woodland was present within 1.5 km of the site.

### 5.2 Habitats

- 5.2.1 The arrangement of site habitats is shown on the UK Habitat plan in Appendix 4, whilst a full list of plant species recorded is provided in Appendix 5.
- 5.2.2 Site habitats are not considered to be of greater than site level importance to nature conservation.
- 5.2.3 An aerial/drone image of the site, taken in May 2025, is shown in Figure 2. A detailed description of the site and adjacent habitats and the site's potential to support protected and notable species is provided in this section of the report.
- 5.2.4 The condition assessments associated with each habitat are included in either Appendix 6 (all habitats but individual trees), or Appendix 7 (individual trees).

Figure 2. Drone image of the site taken in May 2025



g3c6 – *Lolium-Cynosurus* neutral grassland

- 5.2.5 The area of g3c6 – *Lolium-Cynosurus* neutral grassland was split into three blocks labelled Fields 1, 2 & 3 in Appendix 4.

*Field 1*

- 5.2.6 Field 1 comprised an area of horse grazed pasture present on sloping ground with an embankment at the northern edge. At the time of survey the sward was uneven in height with numerous signs of nutrient enrichment and evidence of prolonged grazing by horses. Grass species present included abundant perennial rye grass *Lolium perenne* together with frequently occurring Yorkshire fog *Holcus lanatus* and creeping bent *Agrostis stolonifera*. Occasionally occurring grasses included false oat grass *Arrhenatherum elatius*, soft brome *Bromus hordeaceus*, wall barely *Hordeum murinum*, cocksfoot *Dactylis glomerata* and rough meadow grass *Poa trivialis*. Herb species included frequently occurring autumn hawkbit *Scorzoneroides autumnalis*, nettle *Urtica dioica* and creeping thistle *Cirsium arvense* with occasionally occurring species comprising white clover *Trifolium repens*, common chickweed *Stellaria media*, ragwort *Jacobaea vulgaris*, meadow buttercup *Ranunculus acris*, yarrow *Achillea millefolium*, cow parsley *Anthriscus sylvestris*, broad-leaved dock *Rumex obtusifolius*, and wormwood *Artemisia absinthium*. Bracken *Pteridium aquilinum* was locally frequent within this area of grassland. The condition of this area of grassland appeared to have declined since the 2020 survey visit, with the sheep's sorrel *Rumex acetosella*, a species indicative of less nutrient enriched often acid soils, recorded as abundant in 2020 but no more than rarely occurring in 2023 and 2025. No fine leaved grasses typical of acid grassland were present and there were areas showing nutrient enrichment of the soil where species such as nettle and broad leaved dock were locally abundant. The recorded species richness recorded across three 1 m<sup>2</sup> quadrats in May 2025 comprised an average of 7 species/m<sup>2</sup>.

5.2.7 The grassland in Field 1 was considered to be in poor condition (Defra, 2023). This area of grassland was not considered to comprise a good representation of the habitat type due to excess of herb species indicative of suboptimal condition. In addition the cover of bare ground exceeded 5 % (see Figure 2), cover of species indicative of sub-optimal condition exceeded 5 % (nettles actually comprised c.20 % cover) and there was less than 10 species/m<sup>2</sup>. The sward height was however varied and bracken cover was less than 20 % (Appendix 6).

*Field 2*

5.2.8 Field 2 comprised a steep embankment to the north of the central compound. The species composition in this area was very similar to that in Field 1. This area had a higher proportion of sheep sorrel than Field 1 in 2020, although this species was rarely occurring in May 2025. Additional species recorded from this area comprising spear thistle *Cirsium vulgare* and red dead nettle *Lamium purpureum*. The recorded species richness in this area averaged 6 species/m<sup>2</sup>.

5.2.9 The grassland in Field 2 was considered to be in poor condition (Defra, 2023). This area of grassland was not considered to comprise a good representation of the habitat type due to excess of herb species indicative of suboptimal condition. In addition cover of species indicative of sub-optimal condition exceeded 5 %, there was less than 10 species/m<sup>2</sup> and bare ground exceeded 5 % cover (see Figure 2). The sward height was however varied and bracken cover was less than 20 %.

*Field 3*

5.2.10 Field 3 was a small field in the northeast corner of the site which comprised fairly level ground. This area was not included in the 2020 survey. Grass species recorded from this area comprised frequent Yorkshire fog, creeping bent and wall barely, together with occasional perennial rye grass and soft brome *Bromus hordeaceus*. Herb species present included abundant nettle and frequent white clover, together with occasional broad-leaved plantain *Plantago major*, autumn hawkbit and creeping thistle. The recorded species richness recorded across three quadrats in May 2025 averaged 5.3 species/m<sup>2</sup>.

5.2.11 The grassland in Field 3 was considered to be in poor condition (Defra, 2023). This area of grassland was not considered to comprise a good representation of the habitat type due to excess of herb species indicative of suboptimal condition. In addition, bare ground comprised more than 5 % cover (see Figure 2), cover of species indicative of sub-optimal condition exceeded 5 % and there was less than 10 species/m<sup>2</sup>. The sward height was however varied and bracken cover was less than 20 %.

*Verge to south of Field 1 and central compound*

5.2.12 A narrow banked verge to the driveway of a dwelling outside the site in its southwest corner supported a similar species composition to Field 1 (Figure 2). This grassland was also considered to be in poor condition (Defra, 2023). This area of grassland was not considered to comprise a good representation of the habitat type due to excess of herb species indicative of suboptimal condition. In addition, the cover of bare ground exceeded 5 %, cover of species indicative of sub-optimal condition exceeded 5 % (nettles actually comprised c.20 % cover) and there was less than 10 species/m<sup>2</sup>. The sward height was however varied and bracken cover was less than 20 %.

**Plate 1. Looking west across Field 1 in May 2025**



**Plate 2. Looking east across Field 1 in August 2023**



**Plate 3. Area of nutrient enrichment in Field 1, evidenced by nettle abundance in August 2023**



**Plate 4. Field 2 in May 2025**



**Plate 5. Looking east across Field 3 in August 2023**



**Plate 6. Looking west across Field 1 in May 2025. Mature scrub is present on the embankment on the right of the shot, with bracken visible as a patch of bright green growth beyond the scrub**



12 – scattered bracken

5.2.13 A small area of bracken was present adjacent to the mature hawthorn scrub in the northeast corner of Field 1 (Plate 6).

32 – scattered trees

5.2.14 Scattered mature hawthorn *Crataegus monogyna* scrub with some garden privet *Ligustrum ovalifolium* and elder *Sambucus nigra* were present at TN1 (Appendix 4; Plate 6) in the northeast corner of Field 1. For the purposes of The Statutory Biodiversity Metric these shrubs were included as eight small individual trees due to their having a diameter at breast height of more than 7.5 cm (but less than 30 cm).

5.2.15 Additional scattered trees on the site included a small silver birch at the northeast corner of Field 2, one small field maple at the northern end of H1. Within the compound in the centre of the site were two small apple *Malus domestica* and one small pear *Pyrus communis* (see TN2, Appendix 4), together with one small pedunculate oak *Quercus robur*. One medium sized goat willow *Salix caprea* was located on the northern boundary of the central compound.

5.2.16 Trees were assessed against the Condition Assessment Criteria detailed in The Statutory Biodiversity Metric (Defra, 2023), with the results of these assessments detailed in Appendix 6. The tree numbering system referred to in Appendix 7 has been taken from the Tree Constraints Plan for the site, which is reproduced in Appendix 8. The findings of the Arboricultural Report and Impact Assessment (AWA, 2024) for the site were considered when assessing tree condition.

g4 – modified grassland

5.2.17 Modified grassland comprised the main area of habitat within the central compound (Plates 7 & 8). This area was grazed by goats included approximately 50 % cover of nettles, with grass species present including frequent wall barley and creeping bent, together with occasional cocksfoot and perennial rye grass. Frequently occurring herb

species included ragwort and dandelion, with occasional species including ribwort plantain, broad leaved dock, yarrow and white clover. The recorded species richness in this area averaged 4 species/m<sup>2</sup>.

5.2.18 The modified grassland was considered to be in poor condition (Defra, 2023). This area of grassland comprised less than 6 species per m<sup>2</sup>, with evidence of physical damage across more than 5 % of the area and bare ground more than 10 % of the area. This area of grassland did however have a varied sward height, less than 20 % scrub cover, less than 20 % bracken cover and an absence of non-native plant species.

**Plate 7. Drone view of central compound taken in May 2025, with H2 on left of image and the line of trees on right of image**



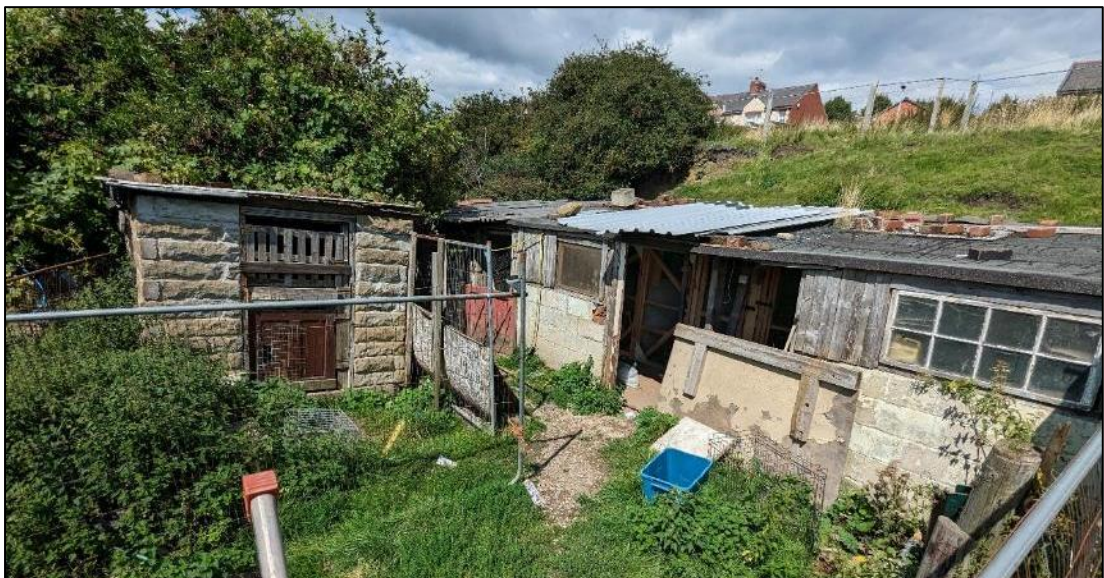
**Plate 8. Section of modified grass in central compound with line of trees at rear of image, taken in May 2025**



u1b5 – buildings

- 5.2.19 Buildings were located in three areas of the site. Within the northwest corner of Field 1 a derelict simple timber-framed single storey building was present with corrugated metal sheeting on the roof and in places on the walls (Plate 1). The remaining complexes of buildings were within the central compound and also in the southeast corner of Field 3.
- 5.2.20 In the northwest corner of the central compound was an L-shaped complex of single-storey pre-fabricated buildings constructed to a range of simple designs, all with flat sheet covered roofs (Plate 9).
- 5.2.21 In the southeast corner of Field 3 a small compound included a single-storey brick-built building with a flat roof and a trailer unit from a lorry (Plate 10).

**Plate 9. Buildings in the central compound in August 2023**



**Plate 10. Compound in southwest corner of Field 3 in August 2023**



u1b6 – developed land

5.2.22 Small areas of hardstanding were associated with buildings in the central compound and the southeast corner of Field 3.

h2a – other native hedgerow

5.2.23 There were two lengths of native hedgerow on site, both of which were species poor.

5.2.24 The hedgerow along the western boundary (H1, Appendix 4; Figure 2; Plate 11) was approximately 4.5 m high and 3.5 m wide and contained frequent hawthorn and cherry plum *Prunus cerasifera*, together with occasional blackthorn *Prunus spinosa*, horse chestnut *Aesculus hippocastanum*, and rarely occurring hybrid willow *Salix* spp. and lilac *Syringa vulgaris*.

5.2.25 Hedge 1 was considered to be in good condition when assessed against The Statutory Biodiversity Metric criteria (Defra, 2023). This hedgerow passed all criteria with the exception of C2 (nutrient enriched perennial vegetation) and D2 (damage).

5.2.26 The hedge (H2) dividing the western field from the central compound was approximately 3 m tall by 1.5 m wide. This hedge was dominated by hawthorn together with occasional elder, bramble and fig *Ficus carica*.

5.2.27 Hedge 2 was considered to be in moderate condition when assessed against The Statutory Biodiversity Metric criteria (Defra, 2023). This hedgerow passed all criteria with the exception of B1 (gap – hedge base), C2 (nutrient enriched perennial vegetation) and D2 (damage).

5.2.28 Neither of the two hedgerows classified as important under the ecological criteria of the Hedgerow Regulations (1997) as they contained a maximum of three native woody species within a sample 30 m length.

**Plate 11. Hedge 1 in May 2025**



## Plate 12. Hedge 2, on right of image in August 2023



### 33 – line of trees

- 5.2.29 A line of trees was present on the eastern boundary of the central compound (Appendix 4). This tree line comprised four semi-mature Corsican pine *Pinus nigra* and two cherry *Prunus* spp. (see Figure 2, Plates 7-8).
- 5.2.30 This line of trees was considered to be in poor condition when assessed against The Statutory Biodiversity Metric criteria (Defra, 2023). The line of trees failed Criteria A (at least 70 % native species), C (veteran features or ecological niches) and D (undisturbed naturally vegetated strip).

## 5.3 Species and Species Groups

### Amphibians

- 5.3.1 No great crested newt *Triturus cristatus* records were provided by Barnsley Biological Records Centre for locations within a 1.5 km radius of the site. No historic great crested newt European Protected Species licences, or presence records included on either the Class Survey Licence Returns or 2017-2019 Pond Surveys datasets were located within a 6 km radius of the site.
- 5.3.2 Three amphibian records were provided by Barnsley Biological Records Centre for locations within a radius of 1.5 km of the site centroid. Records included two common toad *Bufo bufo* and one smooth newt *Lissotriton vulgaris* record. The closest record to site comprised a common toad record collected in 1989 from a location 500 m from the site centroid.
- 5.3.3 The pond search revealed there were three ponds within a 500 m radius of the site, all of which were south (nearest 340 m) of Snape Hill Road and a large housing estate. The busy road and the built environment are considered a major barrier to great crested newt movement and therefore great crested newt are not considered a receptor to the proposed scheme.
- 5.3.4 Given the apparent absence of suitable local breeding sites, it was considered that populations of amphibians present in the local area were likely to weak, if present at all. Consequently the site was unlikely to experience much use by common amphibian species.

### Badger

- 5.3.5 Three badger *Meles meles* records were provided by Barnsley Biological Records

Centre for locations within a 1.5 km radius of the site centroid, although no sett records were received. No signs of badgers were recorded on site; however, it was considered that the site may be used as a wider foraging habitat by this species, if present in the local area.

### Bats

- 5.3.6 Seventy-one bat records of at least four species were provided by Barnsley Biological Records Centre. Positively identified species in the records comprised common pipistrelle *Pipistrellus pipistrellus*, soprano pipistrelle *Pipistrellus pygmaeus*, noctule *Nyctalus noctula* and Daubenton's bat *Myotis daubentonii*. The nearest records (common and soprano pipistrelle) related to bats in flight and were recorded in 2016 from a location c.420 m south of the site.
- 5.3.7 No historic European Protected Species mitigation licences have been obtained for locations within 2 km of the application site.
- 5.3.8 There were no trees either on, or adjacent to the site that displayed features with potential to accommodate roosting bats. Buildings on site (Plates 1, 9 & 10) were all simple single-storey and single-skin structures. No signs of bat presence were recorded from any of the surveyed structures. Given their construction, site buildings were considered to offer no more than a negligible level of bat roost suitability.
- 5.3.9 With the exception of hedgerows, the eastern treeline and individual trees, the site comprised no more than suboptimal foraging habitat for local bat populations. Furthermore the site does not form a connective linkage between areas of higher quality bat foraging habitat.

### Birds

- 5.3.10 No bird records were received for the site itself. Of the records provided by Barnsley Biological Records Centre, the most relevant records related to house sparrow *Passer domesticus* and starling *Sturnus vulgaris*, both of which were recorded in 2006 from the same 1 km Ordnance Survey Grid Reference (SE 4104) as the site. Both house sparrow and starling are red listed species within the Birds of Conservation Concern (Stanbury, 2021).
- 5.3.11 Eight species of bird were recorded on the site or flying overhead during the field surveys. These species comprised blackbird *Turdus merula*, goldfinch *Carduelis carduelis*, common swift *Apus apus*, house sparrow *Passer domesticus*, linnet *Carduelis cannabina*, robin *Erithacus rubecula*, sparrowhawk *Accipiter nisus* and wood pigeon *Columba palumbus*. Of bird species recorded from the site house sparrow, linnet and swift are red listed, with wood pigeon and sparrowhawk amber listed.
- 5.3.12 Site buildings, hedgerow plants and trees have potential for use by nesting birds. Open grassland habitats offer limited suitability for use by ground nesting birds which would potentially be overlooked by predators making use of adjacent trees and hedgerows.
- 5.3.13 Site habitats were considered to have potential for foraging use by a wide range of common and widespread bird species. It was however considered that the site lacked much suitability for use by uncommon habitat specialists.

### Hedgehog

- 5.3.14 Six hedgehog *Erinaceus europaeus* records were provided by Barnsley Biological Records Centre for locations within a 1.5 km radius of the site. No records were received for the site itself. The closest record to site was collected in 2016 from a location 310 m south of the site. The site was therefore considered to be at least likely to comprise part of a wider foraging habitat used by this species.

### Invasive species

- 5.3.15 No species listed on Schedule 9 of the Wildlife & Countryside Act 1981 (as amended) were recorded from the site itself, either historically (through Barnsley Biological Records Centre records) or during the field survey.
- 5.3.16 The nearest historic record of a species included on Schedule 9 comprised a record of Japanese knotweed *Reynoutria japonica*, collected in 2008 from a location 340 m southwest of the site.

### Invertebrates

- 5.3.17 Given the ubiquitous habitats on site, rarely occurring and/or notable species of invertebrates were not considered likely to be present as the ground flora appeared to be somewhat species poor.

### Plants

- 5.3.18 Given the lack of notable or rare species recorded during the field survey, the habitats on site and the soils' somewhat nutrient enriched state (in most part), it was considered unlikely to support rare or notable species of flowering plants.

### Reptiles

- 5.3.19 Eleven reptile records were provided by Barnsley Biological Records Centre for locations within 1.5 km of the site. No reptile records were received for the site itself, with the closest record comprising a 1994 grass snake *Natrix helvetica* record, collected from a location 1.1 km southeast of the site. In addition to grass snake, adder *Vipera berus* were also recorded, although on the basis of knowledge of the local distribution of adder, it was considered likely that records attributed to this species comprised mis-identifications of grass snake.
- 5.3.20 Grass snake will move widely across habitats within their range, however, their preferred foraging areas typically comprise undisturbed sites close to waterbodies and watercourses. Consequently, given the distance from nearby watercourses and pond, it was considered unlikely that this species would use the site. The site was not considered to display suitability for use by adder.

## 5.4 Ecological Importance Summary

- 5.4.1 Table 2 summarises the ecological value of each habitat and the populations of each species group and species identified as present, or potentially present within the site.

**Table 2. Ecological importance of each habitat, species or species group on site and adjacent**

Habitat, Species or Species Group	Ecological value
g3c6 – Lolium-Cynosurus neutral grassland	Site
g4 – modified grassland	Site
u1b5 - buildings	Site
u1b6 – developed land	Site
h2a – other native hedgerow	Site
12 – scattered bracken	Site
32 – scattered trees	Site
33 – line of trees	Site
Amphibians	Site (great crested newt expected to be absent)
Badger	Site (if present)
Bats	Site
Birds	Site
Hedgehog	Site
Invasive species	Site
Invertebrates	Site
Plants	Site
Reptiles	Unlikely receptor to scheme

## 5.5 Biodiversity Calculation

- 5.5.1 The existing site's value as calculated using The Statutory Biodiversity Metric was 4.88 Habitat Units plus 0.67 Hedgerow Units (Appendix 8).

## **6. Assessment**

### **6.1 Proposals**

- 6.1.1 The assessment of impacts is based on the layout shown in Appendix 1.
- 6.1.2 The proposed development will result in the loss of all existing habitats on site with the exception of the western hedgerow (H1).
- 6.1.3 Landscaping proposals are detailed in Appendix 1. A strip of native mixed scrub, other neutral grassland planting and scattered tree planting is to be established along the northern boundary of the western portion of the site. A small area of wildflower lawn and some scrub planting is also to be established in the southeast corner of the western portion of the site. Four sections of new mixed native hedge are to be established outside of private gardens.

### **6.2 Biodiversity Calculations**

- 6.2.1 The Headline Results output of The Statutory Biodiversity Metric are presented in Appendix 9, based on the proposed site habitats shown in Appendix 10. The metric shows a loss of -2.76 Habitat Units (a 56.54 % net loss) with a projected gain of 0.23 Hedgerow Units (a 34.42 % net gain).
- 6.2.2 A net loss in Habitat Units cannot be avoided for the proposed scheme. As a result, it is proposed to purchase Habitat Units appropriate to deliver a 10 % net gain from a third party landbank.

### **6.3 Assessment of Impacts**

- 6.3.1 No impacts upon designated sites are anticipated because of the nature and scale of the development, distance from the designated site and due to the site being surrounded on almost all sides by residential development and/or roads.
- 6.3.2 Site habitats are considered to be of importance to nature conservation at the site level only. The site is not considered to be of importance at greater than the site level to any faunal species group.
- 6.3.3 The likely unmitigated impacts of the development were considered to comprise:
- The net loss of 3.62 grassland and 0.3 individual tree Habitat Units, partially offset by an increase of 0.56 heathland and scrub and 0.61 urban Habitat Units, and 0.23 Hedgerow Units.
  - Damage to the root systems of existing hedgerow plants and trees as a result of construction works.
  - A small loss of foraging habitat for hedgehogs, bats, birds, and invertebrates.
  - The loss of bird nesting habitat and the potential removal of active birds' nests.
  - Increased lighting affecting nocturnal species such as hedgehogs, bats, nocturnal invertebrates and some birds.
  - Biosecurity risks as a result of bringing in plants, seeds and soil for landscaping.
- 6.3.4 Mitigation and enhancement measures have been proposed for the site.

## 6.4 Mitigation and Enhancement Measures

### Root protection

- 6.4.1 British Standard 5837 (2012): Trees in relation to design, demolition and construction, should be followed. Root Protection Zones (RPZ's) for the retained hedgerow, the retained tree and offsite trees located within 5 m of the site boundary should be calculated and implemented to prevent harm to root systems.

### Site clearance

- 6.4.2 Nesting birds were expected to make some use of site vegetation and buildings and consequently it is strongly recommended that site clearance avoids the nesting bird season. If some vegetation clearance is required during the main nesting bird season (March – August) then this should be preceded within 48 hours by a nesting bird check to be undertaken by an ecologist. As stated in Appendix 2 active bird's nests are legally protected.

### Wildlife friendly landscaping and addressing biosecurity risks

- 6.4.3 Site landscaping should be established as detailed in the Outline Landscape Masterplan. A Landscape Management Plan should be written detailing the management regime for all retained and newly created habitat on the site located outside domestic curtilages.
- 6.4.4 All plants and seed should be bought from UK nurseries that adhere to national standards regarding plant health, with UK grown material used in preference wherever available. All imported material must conform with industry standards BS 8601 (Subsoil), BS 3882 Topsoil). Topsoil to be general purpose, 10 mm screened and locally sourced (unless otherwise stated). Only peat free compost should be used in landscaping.

### Bat and bird boxes

- 6.4.5 Each new dwelling should have one integrated bat brick and one integrated swift brick, as required under Barnsley Council's Biodiversity and Geodiversity Supplementary Planning Document (BC, 2024). It is recommended that a bat box design such as the PRO UK Build-in WoodStone Bat Box is used, with a suitable design of swift box comprising the AfS S-Brick. Studies have shown that swift boxes are used by the full range of nesting birds that utilise buildings; consequently, these boxes will also provide potential nesting space for house sparrow and starlings *Sturnus vulgaris*. The proposed locations of new bat and swift boxes are shown in Appendix 11.
- 6.4.6 We recommend the use of bat safe roofing felt as standard. Standard breathable roofing felts are not safe for use in bat roosts. Further information on this issue is included in Appendix 12.

### Hedgehogs

- 6.4.7 In order to ensure that hedgehogs continue to be able to freely access the site, 13 cm x 13 cm hedgehog holes should be cut at the base of new dwelling boundary fences. In order to show new homeowners, the purpose of new fence holes, signs should be affixed over the hole on both sides of the fence (i.e. Eco Hedgehog Hole Fence Plate). The proposed locations for hedgehog holes are shown in Appendix 11.

### Lighting

- 6.4.8 The design of outside lighting should be carefully considered in line with guidance from the Institute of Lighting Professionals and the Bat Conservation Trust Guidance (ILP, 2023). Where external lighting is required, it must be downwards facing and have a horizontal cut off, i.e. with no upwards component. The lighting should be relatively low level and a warm colour tone (i.e. not cold white or blue). Lighting on the rear of the properties should be activated only by PIR sensors.

## **6.5 Conclusion and Residual Effects**

- 6.5.1 In order to further reduce scheme impacts and to ensure the scheme maximises potential benefits to nature conservation, it is recommended that mitigation and enhancement measures detailed in Section 6.4 are adopted.
- 6.5.2 The proposals are expected to result in a net loss of 2.76 Habitat Units (a 56.54 % net loss) with a projected gain of 0.23 Hedgerow Units (a 34.19 % net gain). As a result, it is proposed to purchase Habitat Units appropriate to deliver a 10 % net gain from either the local planning authority (if possible) or from a third party landbank.
- 6.5.3 The results of this survey are considered to be valid for a period of 24 months. After this time Middleton Bell Ecology should be contacted to determine the need for update survey.

## 7. References

AWA (2024) Arboricultural Report & Impact Assessment to BS 5837:2012 at Land at Snape Hill Street, Darfield. AWA Tree Consultants.

BC (2024) Barnsley Local Plan – Biodiversity and Geodiversity Supplementary Planning Document. Available online at: <https://www.barnsley.gov.uk/media/uqcn3wiv/biodiversity-and-geodiversity-spd-2024.pdf>

CIEEM (2017) Guidelines for Preliminary Ecological Appraisal, 2<sup>nd</sup> edition. Chartered Institute of Ecology and Environmental Management, Winchester.

CIEEM (2018) Guidelines for Ecological Impact Assessment in the UK and Ireland: Terrestrial, Freshwater and Coastal and Marine. Chartered Institute of Ecology and Environmental Management, Winchester.

Defra (2023) The Statutory Biodiversity Metric User Guide (draft). Defra.

ILP (2023) Guidance Note 08/23 Bats and Artificial Lighting At Night. Bat Conservation Trust and Institute of Lighting Professionals.

Joint Nature Conservation Committee (2010). Handbook for Phase 1 Habitat Survey – a Technique for Environmental Audit. Reprinted by JNCC, Peterborough.

MBE (2020) South View, Darfield – Preliminary Ecological Appraisal. Middleton Bell Ecology.

Stanbury, A., Eaton, M., Aebischer, N., Balmer, D., Brown, A., Douse, A., Lindley, P., McCulloch, N., Noble, D., & I Win (2021) *The status of our bird populations: the fifth Birds of Conservation Concern in the United Kingdom, Channel Islands and Isle of Man and second IUCN Red List assessment of extinction risk for Great Britain*. British Birds 114: 723-747. Available online at: [www.britishbirds.co.uk/content/status-our-bird-populations](http://www.britishbirds.co.uk/content/status-our-bird-populations)

UKHab Ltd (2023) UK Habitat Classification Version 2.0 (at <https://www.ukhab.org> )

## Appendix 1. Landscape Masterplan



## Appendix 2. Relevant Legislation and Policy

Wildlife legislation relating to statutory designated sites and species is summarised in Table A1 and A2 below. This legal information is intended for summary only, and the original legal documents should be consulted if a detailed understanding is required.

**Table A1.** Legislation relating to designated sites and habitats

Designated Site	Legal Status
Site of Special Scientific Interest (SSSI)	SSSIs are the national suite of sites providing statutory protection for the best examples of the UK's flora, fauna, or geological or physiographical features. Originally notified under the National Parks and Access to the Countryside Act 1949, SSSIs have been re-notified under the Wildlife and Countryside Act 1981 (as amended). Improved provisions for the protection and management of SSSIs were introduced by the Countryside and Rights of Way Act 2000. SSSIs are of at least national importance to nature conservation

**Table A2.** Legislation relating to species

Species	Legal Status
European Protected Species (EPS) (including bats, Great Crested Newt (GCN), otter and hazel dormouse)	<p>European protection</p> <p>These animal species and their breeding sites or resting places are protected under Regulation 41 of the Conservation of Habitats and Species Regulations 2017, which makes it illegal to:</p> <ul style="list-style-type: none"> <li>• Intentionally or deliberately capture, injure, or kill any such animal or to deliberately take or destroy their eggs.</li> <li>• Deliberately disturb such an animal.</li> <li>• Damage or destroy a breeding site or resting place of such an animal.</li> </ul> <p>European Protected Species (EPS) licences can be granted by Natural England in respect of development to permit activities that would otherwise be unlawful under the Conservation Regulations, providing that the following 3 tests (set out in the EC Habitats Directive) are passed:</p> <ul style="list-style-type: none"> <li>• The development is for reasons of overriding public interest.</li> <li>• There is no satisfactory alternative; and</li> <li>• The favourable conservation status of the species concerned will be maintained and/or enhanced.</li> </ul> <p>Under Regulation 9(5) of the Conservation Regulations, Planning Authorities have a legal duty to 'have regard to the requirements of the EC Habitats Directive in the exercise of their functions'. This means that they must consider the above 3 tests when determining whether Planning Permission should be granted for developments likely to cause an offence under the Conservation Regulations. As a consequence, Planning Applications for such developments must demonstrate that the 3 tests will be passed.</p> <p>Natural England also allow sites to be registered on the Bat Low Impact Class Licence to permit activities that would otherwise be</p>

Species	Legal Status
	unlawful under the Conservation Regulations where the 3 tests can be passed and the bat roosts to be impacted are of low conservation status.
National protection	
European Protected Species and other species including water vole and white clawed crayfish	These animals receive full protection under the Wildlife and Countryside Act 1981 (as amended by the Countryside and Rights of Way Act 2000), which makes it illegal (subject to exceptions) to: <ul style="list-style-type: none"> <li>• Intentionally kill, injure or take any such animal.</li> <li>• Intentionally or recklessly damage, destroy or obstruct any place used for shelter or protection by any such animal; and</li> <li>• Intentionally or recklessly disturb such animals while they occupy a place used for shelter or protection.</li> </ul>
Common amphibians and reptile species	These animals receive limited protection under The Wildlife and Countryside Act 1981 (as amended by the Countryside and Rights of Way Act 2000), which makes it illegal to intentionally kill or injure any such animal.
Badger	The Protection of Badgers Act 1992 makes it illegal to wilfully kill or injure a Badger or attempt to do so and also make it illegal to intentionally or recklessly interfere with a Badger sett. This includes damaging or destroying a sett, obstructing access to a sett and disturbing a Badger while it is occupying a sett. Licences can be granted by Natural England to permit sett closure and/or disturbance between July and November inclusive.
Schedule 1 birds	Special penalties relate to offences concerning birds listed on Schedule 1 of the Wildlife and Countryside Act 1981 (as amended). In addition to the offences detailed above relating to all wild birds, it is illegal to intentionally or recklessly disturb any Schedule 1 bird or their dependent young while nesting.
All bird species	All wild birds are protected under the Wildlife and Countryside Act 1981 (as amended by the Countryside and Rights of Way Act 2000), which makes it illegal (subject to exceptions) to: <ul style="list-style-type: none"> <li>• Intentionally kill, injure or take any wild bird.</li> <li>• Take, damage or destroy the nest (whilst being built or in use) or eggs of any wild bird.</li> </ul>
Invasive species	The Wildlife and Countryside Act 1981 (as amended) contains measures for preventing the establishment of non-native species which may be detrimental to native wildlife, prohibiting the release of animals and planting of plants listed in Schedule 9 of the Act. In relation to Schedule 9 plants it is an offence to plant or otherwise cause these plant species to grow in the wild.

### Species and Habitats of Principal Importance

Planning authorities have a duty under Section 40 of the NERC Act 2006 to have regard to priority species and habitats in exercising their functions including development control and planning. In compliance with Section 41 of the NERC Act, the Secretary of State has published a list of species and habitats considered to be of principal importance for conserving biodiversity in England under the UK Post-2010 Biodiversity Framework. This is known as the list of Habitats and Species of Principal Importance (HPI/SPI). The HPI/SPI list is used to guide planning authorities in implementing their duty under the NERC Act.

### **National Planning Policy Framework**

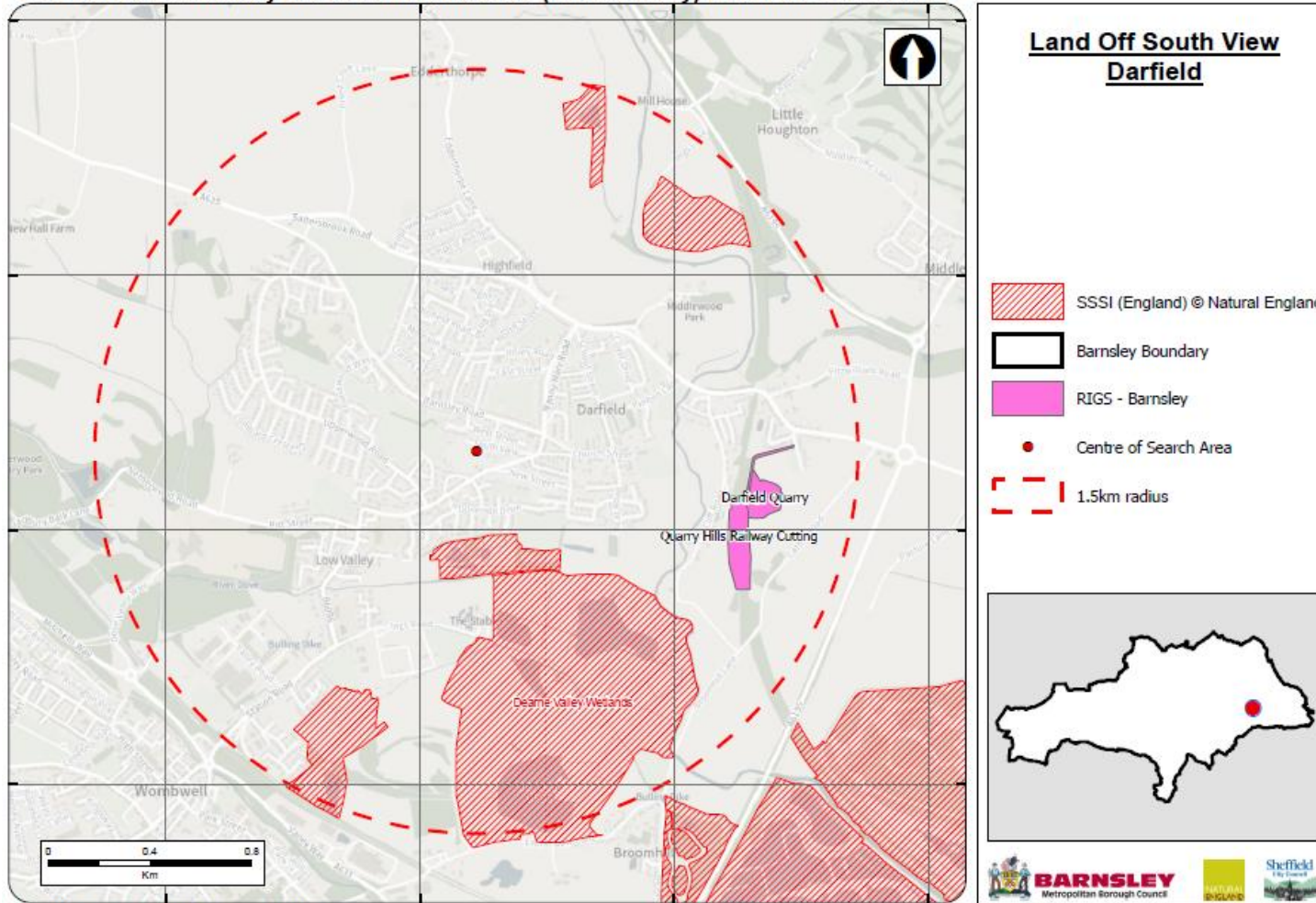
The National Planning Policy Framework for England was revised in 2018. This document states that plans should 'promote the conservation, restoration and re-creation of priority habitats, ecological networks and the protection and recovery of priority species; and identify and pursue opportunities for securing measurable net gains for biodiversity'. It also puts an emphasis on refusing development which would result in the 'loss or deterioration of irreplaceable habitats (such as ancient woodland)' unless there are 'wholly exceptional reasons and a suitable mitigation strategy exists'.

### **Local Biodiversity Action Plans**

The HPI/SPI list included on Section 41 of the NERC Act 2006 is supported by a series of Local Biodiversity Action Plans (LBAPs), usually set up on a local authority local authority administrative boundary basis. Each LBAP identifies those habitats and species considered to be most important in that area (usually referred to as priority habitats and species). Commonly, an LBAP will identify a number of habitats and species for which "action plans" have been prepared.

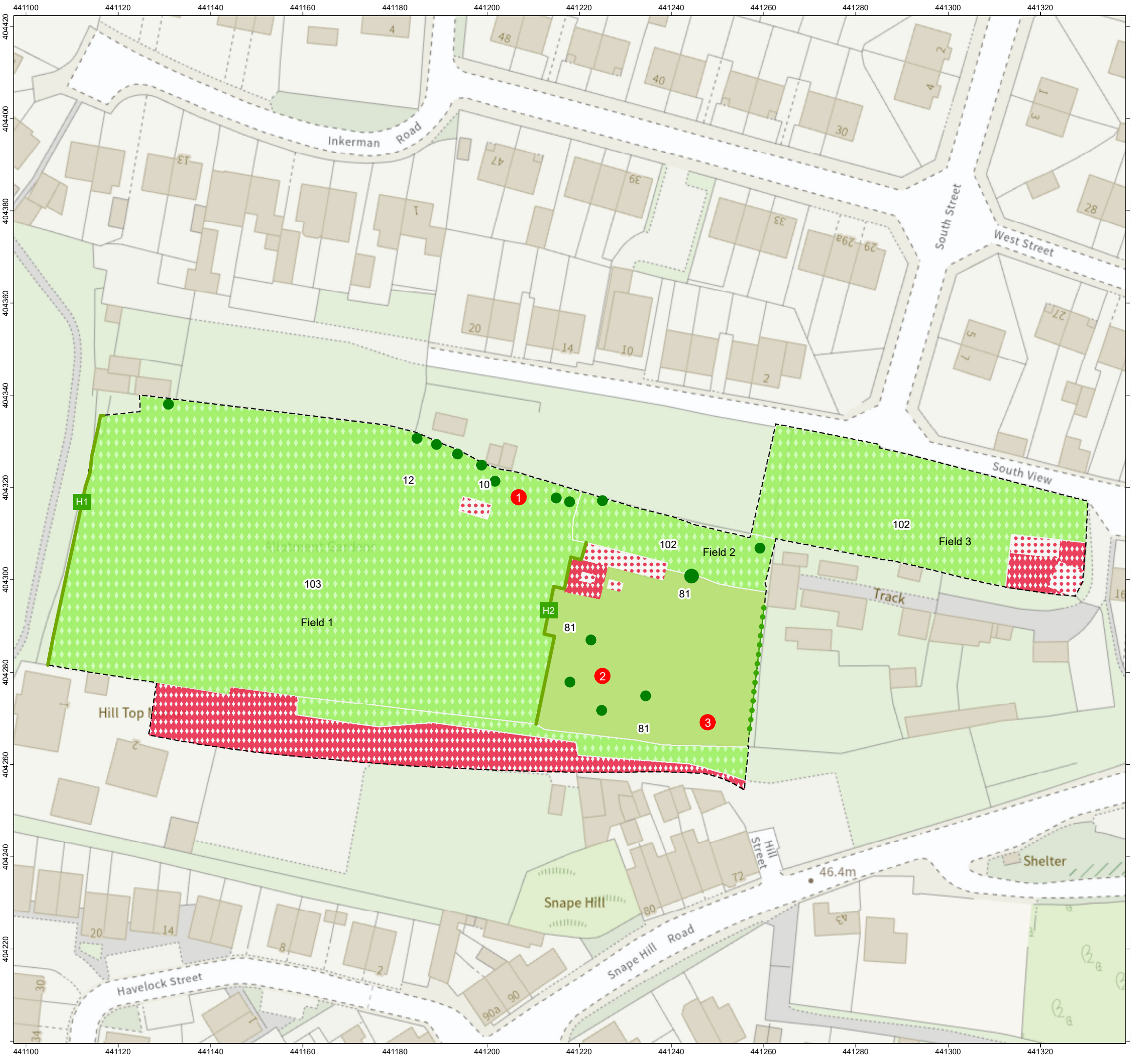
# Appendix 3. Designated Sites Map

Boundaries of Statutory and Local Wildlife Sites (non-statutory) Within the Search Area



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## **Appendix 4. UK Habitat Classification Plan**



Survey Information	
	Site boundary (11,378.2m <sup>2</sup> )
UK Habitat Survey (Primary Habitats)	
	g3c6 - Lolium-Cynosurus neutral grassland (8,473.7m <sup>2</sup> )
	g4 - Modified grassland (1,565.5m <sup>2</sup> )
	u1b5 - Buildings (186.1m <sup>2</sup> )
	u1b6 - Other developed land (1,152.9m <sup>2</sup> )
	h2a - Other native hedgerow (103.7m)
	33 - Line of trees (27.8m)
	32 - Scattered tree, medum (1)
	32 - Scattered tree, small (14)
	Target note

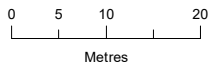
**Secondary codes:**

- 10 - Scattered scrub
- 81 - Ruderal or ephemeral
- 102 - Sheep grazed
- 103 - Horse grazed

**Target notes:**

- Cluster of scattered mature hawthorn and elder shrub
- Former small orchard, now largely comprising dead trees due to goat browsing/bark stripping
- Modified grassland includes two abandoned cars, two caravans, two canoes and extensive scattered building materials, such as sections of corrugated tin

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PROJECT TITLE  
**LAND AT SOUTH VIEW, DARFIELD**

DRAWING TITLE  
**Figure 1. UK Habitat Survey Plan**

VER	DATE	REMARKS	Drawn	Checked
2.2	21/05/25	UKHab	MP	RB

DRAWING NUMBER:  
**MIDDLETONBELLECOLOGY/LandatSouthViewDarfield/UKHab**

SCALE	1:800	PLOT SIZE	A3	DATUM	OSGB	PROJECTION	BNG
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## Appendix 5. Plant Species Recorded on Site

Common Name	Latin Name	g3c6 - Lolium-Cynosurus neutral grassland	g4 - modified grassland	h2a - other native hedgerow	32 - scattered trees	33 - line of trees
Perennial Rye-grass	<i>Lolium perenne</i>	A	O			
Common Nettle	<i>Urtica dioica</i>	F	A			
Creeping Bent	<i>Agrostis stolonifera</i>	F	F			
Autumn Hawkbit	<i>Scorzoneroides autumnalis</i>	F				
Creeping Thistle	<i>Cirsium arvense</i>	F				
Yorkshire-fog	<i>Holcus lanatus</i>	F				
Common Ragwort	<i>Jacobaea vulgaris</i>	O	F			
Wall Barley	<i>Hordeum murinum</i>	O	F			
Broad-leaved Dock	<i>Rumex obtusifolius</i>	O	O			
Cock's-foot	<i>Dactylis glomerata</i>	O	O			
White Clover	<i>Trifolium repens</i>	O	O			
Soft Brome	<i>Bromus hordeaceus</i>	O				
Yarrow	<i>Achillea millefolium</i>	O	O			
Bracken	<i>Pteridium aquilinum</i>	O				
Cat's-ear	<i>Hypochaeris radicata</i>	O				
Common Chickweed	<i>Stellaria media</i>	O				
Cow Parsley	<i>Anthriscus sylvestris</i>	O				
False Oat-grass	<i>Arrhenatherum elatius</i>	O				
Meadow Buttercup	<i>Ranunculus acris</i>	O				
Rough Meadow-grass	<i>Poa trivialis</i>	O				
Wormwood	<i>Artemisia absinthium</i>	O				
Common Mallow	<i>Malva sylvestris</i>	R				

Common Name	Latin Name	g3c6 - Lolium-Cynosurus neutral grassland	g4 - modified grassland	h2a - other native hedgerow	32 - scattered trees	33 - line of trees
Red Dead-nettle	<i>Lamium purpureum</i>	R				
Sheep's Sorrel	<i>Rumex acetosella</i>	R				
Soft-brome	<i>Bromus hordeaceus</i>	R				
Spear Thistle	<i>Cirsium vulgare</i>	R				
Wild Teasel	<i>Dipsacus fullonum</i>	R				
Red Clover	<i>Trifolium pratense</i>	R				
Dandelion	<i>Taraxacum</i>		F			
Ribwort Plantain	<i>Plantago lanceolata</i>		O			
Hawthorn	<i>Crataegus monogyna</i>			F	F	
Cherry Plum	<i>Prunus cerasifera</i>			F		
Elder	<i>Sambucus nigra</i>			O	O	
Blackthorn	<i>Prunus spinosa</i>			O		
Bramble	<i>Rubusfruticosus</i>			O		
Field Maple	<i>Acer campestre</i>			O		
Fig	<i>Ficus carica</i>			O		
Horse-chestnut	<i>Aesculus hippocastanum</i>			O		
Lilac	<i>Syringa vulgaris</i>			O		
Willow	<i>Salix</i>			O		
Garden Privet	<i>Ligustrum ovalifolium</i>				O	
Apple	<i>Malus</i>				O	
Goat Willow	<i>Salix caprea</i>				O	
Pear	<i>Pyrus communis</i>				O	
Pedunculate Oak	<i>Quercus robur</i>				O	
Silver Birch	<i>Betula pendula</i>				O	
Austrian Pine	<i>Pinus nigra</i>					F
Cherry	<i>Prunus</i>					F

## **Appendix 6. Habitat Condition Assessment Sheets (Other Than Trees)**

Condition Sheet: GRASSLAND Habitat Type (medium, high and very high distinctiveness)																				
UK Habitat Classification (UKHab) Habitat Types																				
Grassland - Lowland calcareous grassland Grassland - Lowland dry acid grassland Grassland - Lowland meadows Grassland - Other lowland acid grassland Grassland - Other neutral grassland Grassland - Tall herb communities (H6430) [Not to be confused with the Tall forbs secondary code – see UKHab guidance for details.] Grassland - Upland acid grassland Grassland - Upland calcareous grassland Grassland - Upland hay meadows Sparsely vegetated land - Calaminarian grassland																				
Habitat Description																				
ukhab – UK Habitat Classification																				
On-site or off-site, site name and location	South View, Darfield				Survey date and Surveyor name						19/05/2025 - Robert Bell									
					Survey reference (if relating to a wider survey)															
Limitations (if applicable)	Habitat parcel reference																			
	Field 1	Field 2	Field 3	Verge																
Condition Assessment Criteria	Grid reference																			
	S	E	4	1	1	6	0	4	3	0										
	Criterion passed (Yes or No)										Notes (such as justification)									
A	The parcel represents a good example of its habitat type, with a consistently high proportion of characteristic indicator species present relevant to the specific habitat type (and relative to Footnote 3 suboptimal species which may be listed in the UKHab description). <sup>1</sup>  <b>Note - this criterion is essential for achieving Moderate or Good condition for non-acid grassland types only.</b>				No	No	No	No												Due to proportion of grassland covered by suboptimal species
B	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.				Yes	Yes	Yes	Yes												
C	Cover of bare ground is between 1% and 5%, including localised areas, for example, rabbit warrens <sup>2</sup> .				No	No	No	No												More than 5 % bare ground
D	Cover of bracken <i>Pteridium aquilinum</i> is less than 20% and cover of scrub (including bramble <i>Rubus fruticosus</i> agg.) is less than 5%.				Yes	Yes	Yes	Yes												Bracken was present but cover was less than 20 %
E	Combined cover of species indicative of suboptimal condition <sup>3</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.  If any invasive non-native plant species <sup>4</sup> (as listed on Schedule 9 of WCA <sup>5</sup> ) are present, this criterion is automatically failed.				No	No	No	No												Cover of suboptimal species >5 %, notably including nettles
Additional Criterion - must be assessed for all non-acid grassland types																				
F	There are 10 or more vascular plant species per m <sup>2</sup> present, including forbs that are characteristic of the habitat type (species referenced in Footnote 3 and 5 cannot contribute towards this count).  <b>Note - this criterion is essential for achieving Good condition for non-acid grassland types only.</b>				No	No	No	No												Between 5.3-7 species per m2 depending on field

Essential criterion for Good condition achieved (for non-acid grassland) (Yes or No)		No	No	No	No															
Number of criteria passed		2	2	2	2															Poor condition for
Condition Assessment Result	Condition Assessment Score	Score Achieved x/√																		
<b>Acid grassland types (Result out of 5 criteria)</b>																				
Passes 5 criteria	Good (3)																			
Passes 3 or 4 criteria	Moderate (2)																			
Passes 2 or fewer criteria	Poor (1)																			
<b>Non-acid grassland types (Result out of 6 criteria)</b>																				
Passes 5 or 6 criteria, including essential criterion A and additional criterion F.	Good (3)																			
Passes 3 - 5 criteria, including essential criterion A.	Moderate (2)																			
Passes 2 or fewer criteria; OR Passes 3 or 4 criteria excluding criterion A and F.	Poor (1)																			
<b>Suggested enhancement interventions to improve condition score</b>																				
<b>Notes</b>																				
<p><b>Footnote 1</b> - Professional judgement should be used alongside the UKHab description.</p> <p><b>Footnote 2</b> – For example, this could include small, scattered areas of bare ground allowing for plant colonisation, or localised patches not exceeding 5% cover.</p> <p><b>Footnote 3</b> - Species indicative of suboptimal condition for this habitat type include: 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> and cow parsley <i>Anthriscus sylvestris</i>. There may be additional relevant species local to the region and or site.</p> <p><b>Footnote 4</b> – Assess this for each distinct habitat parcel. If the distribution of invasive non-native species varies across the habitat, split into parcels accordingly, applying a buffer zone around the invasive non-native species with a size relative to its risk of spread into adjacent habitat, by applying professional judgement.</p> <p><b>Footnote 5</b> – Wildlife and Countryside Act 1981 (as amended).</p>																				

Condition Sheet: GRASSLAND Habitat Type (low distinctiveness)											
UK Habitat Classification (UKHab) Habitat Type											
Grassland - Modified grassland											
Habitat Description											
<a href="#">ukhab - UK Habitat Classification</a>											
On-site or off-site, site name and location	South View, Darfield				Survey date and Surveyor name		19/05/2025 - Robert Bell				
					Survey reference (if relating to a wider survey)						
Limitations (if applicable)	N/A				Habitat parcel reference						
Condition Assessment Criteria					Grid reference						Notes (such as justification)
				Criterion passed (Yes or No)							
A	There are 6-8 vascular plant species per m <sup>2</sup> present, including at least 2 forbs (these may include those listed in Footnote 1). <b>Note - this criterion is essential for achieving Moderate or Good condition.</b>				No						4 species per m2
	Where the vascular plant species present are characteristic of medium, high or very high distinctiveness grassland, or there are 9 or more of these characteristic species per m <sup>2</sup> (excluding those listed in Footnote 1), please review the full UKHab description to assess whether the grassland should instead be classified as a higher distinctiveness grassland. Where a grassland is classed as medium, high, or very high distinctiveness, please use the relevant condition sheet.										
B	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 vertebrates and invertebrates to live and breed.				Yes						
C	Any scrub present accounts for less than 20% of the total grassland area. (Some scattered scrub such as bramble <i>Rubus fruticosus</i> agg. may be present). Note - patches of scrub with continuous (more than 90%) cover should be classified as the relevant scrub habitat type.				Yes						
D	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.				No						Yes, extensive tipped waste, extensive over grazing
E	Cover of bare ground is between 1% and 10%, including localised areas (for example, a concentration of rabbit warrens) <sup>2</sup> .				No						Bare ground exceeded 10 %
F	Cover of bracken <i>Pteridium aquilinum</i> is less than 20%.				Yes						
G	There is an absence of invasive non-native plant species <sup>3</sup> (as listed on Schedule 9 of WCA <sup>4</sup> ).				Yes						
Essential criterion achieved (Yes or No)				No							
Number of criteria passed				3							
Condition Assessment Result (out of 7 criteria)		Condition Assessment Score		Score Achieved x/√							
Passes 6 or 7 criteria including passing essential criterion A		Good (3)									
Passes 4 or 5 criteria including passing essential criterion A		Moderate (2)									
Passes 3 or fewer criteria; OR Passes 4 - 6 criteria (excluding criterion A)		Poor (1)									

**Suggested enhancement interventions to improve condition score**

**Footnotes**

**Footnote 1** – Creeping thistle *Cirsium arvense*, spear thistle *Cirsium vulgare*, curled dock *Rumex crispus*, broad-leaved dock *Rumex obtusifolius*, common nettle *Urtica dioica*, creeping buttercup *Ranunculus repens*, greater plantain *Plantago major*, white clover *Trifolium repens* and cow parsley *Anthriscus sylvestris*.

**Footnote 2** – For example, this could include small, scattered areas of bare ground allowing establishment of new species, or localised patches where not exceeding 10% cover.

**Footnote 3** – Assess this for each distinct habitat parcel. If the distribution of invasive non-native species varies across the habitat, split into parcels accordingly, applying a buffer zone around the invasive non-native species with a size relative to its risk of spread into adjacent habitat, using professional judgement.

**Footnote 4** – Wildlife and Countryside Act 1981 (as amended).



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).  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).	Yes	Yes													
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 hedgerow (at least).	This is the level of disturbance (excluding wildlife disturbance) at the base of the hedgerow.  Undisturbed ground is present for at least 90% of the hedgerow length, greater than 1 m in width and must be present along at least one side of the hedgerow.  This criterion recognises the value of the hedgerow 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.	Yes	Yes													
C2.	Nutrient-enriched 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, does not exceed the 20% cover threshold.	No	No													Nettle growth across more than 20 % of undisturbed ground
D1.	Invasive and neophyte species	>90% of the hedgerow and undisturbed ground is free of invasive non-native plant species (including those listed on Schedule 9 of WCA <sup>3</sup> ) and recently introduced species.	Recently introduced species refer to plants that have naturalised in the UK since AD 1500 (neophytes). Archaeophytes count as natives. For information on archaeophytes and neophytes see the JNCC website <sup>4</sup> , as well as the BSBI website <sup>5</sup> where the 'Online Atlas of the British and Irish Flora' <sup>6</sup> contains an up-to-date list of the status of species. For information on invasive non-native species see the GB Non-Native Secretariat website <sup>7</sup> .	Yes	Yes													
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.  This could include evidence of pollution, piles of manure or rubble, or inappropriate management practices (for example, excessive hedgerow cutting).	No	No													More than 10 % of hedgerow base impacted by damage (typically tipped waste or corrugated metal sheeting)
<b>Additional group - applicable to hedgerows with trees only</b>																		
E1.	Tree class	There is more than one age-class (or morphology) of tree present (for example: young, mature, veteran and or ancient <sup>8</sup> ), and there is on average at least one mature, ancient or veteran tree present per 20 - 50m of hedgerow.	This criterion addresses if there are a range of age-classes or morphologies which allow for replacement of trees and provide opportunities for different species.	N/A	N/A													
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.	N/A	N/A													

The hedgerow condition assessment generates a weighting (score) ranging from 1 - 3, which is used within the Statutory Biodiversity Metric. The scores for each are set out in the tables below.

**Condition categories for hedgerows without trees**

Category	Category Requirements	Metric Score
Good	No more than 2 failures in total; <b>AND</b> No more than 1 failure in any functional group.	3

Moderate	No more than 4 failures in total; <b>AND</b> <u>Does not fail both attributes</u> in more than one functional group (for example, fails attributes A1, A2, B1 and C2 = Moderate condition).	2
Poor	Fails a total of more than 4 attributes; <b>OR</b> <u>Fails both attributes</u> in more than one functional group (for example, fails attributes A1, A2, B1 and B2 = Poor condition).	1
<b>Score achieved:</b>		
<b>Condition categories for hedgerows with trees</b>		
<b>Category</b>	<b>Category Requirements</b>	<b>Metric score</b>
Good	No more than 2 failures in total; <b>AND</b> No more than 1 failure in any functional group.	3
Moderate	No more than 5 failures in total; <b>AND</b> <u>Does not fail both attributes</u> in more than one functional group (for example, fails attributes A1, A2, B1, C2 and E1 = Moderate condition).	2
Poor	Fails a total of more than 5 attributes; <b>OR</b> <u>Fails both attributes</u> in more than one functional group (for example, fails attributes A1, A2, B1 and B2 = Poor condition).	1
<b>Score achieved:</b>		

**Suggested enhancement interventions to improve condition score**

Condition Sheet: LINE OF TREES Habitat Type																			
Habitat Types																			
<b>Line of trees</b> <b>Line of trees – associated with bank or ditch</b> <b>Ecologically valuable line of trees</b> <b>Ecologically valuable line of trees – associated with bank or ditch</b>																			
Habitat Description																			
See the Statutory Biodiversity Metric User Guide. This assessment is based on the Hedgerow Survey Handbook <sup>1</sup> . For further clarifications please refer to the Handbook. Where ancient and veteran trees are present within the line of trees, see Footnote 2 for standing advice.																			
<b>On-site or off-site, site name and location</b>	South View, Darfield				<b>Survey date and Surveyor name</b>	19/05/2025 - Robert Bell													
					<b>Survey reference (if relating to a wider survey)</b>														
<b>Limitations (if applicable)</b>					<b>Habitat parcel reference</b>														
<b>Condition Assessment Criteria</b>					<b>Grid reference</b>								<b>Notes (such as justification)</b>						
<b>A</b>	At least 70% of trees are native species.				No														
<b>B</b>	Tree canopy is predominantly continuous with gaps in canopy cover making up <10% of total area and no individual gap being >5 m wide.				No														
<b>C</b>	One or more trees has veteran features and or natural ecological niches for vertebrates and invertebrates, such as presence of standing and attached deadwood, cavities, ivy or loose bark.				Yes														
<b>D</b>	There is an undisturbed naturally-vegetated strip of at least 6 m on both sides to protect the line of trees from farming and other human activities (excluding grazing). Where veteran trees are present, root protection areas should follow standing advice <sup>2</sup> .				Yes														
<b>E</b>	At least 95% of the trees are in a healthy condition (deadwood or veteran features valuable for wildlife are excluded from this). 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.				No														
<b>Number of criteria passed</b>					2														Poor
<b>Condition Assessment Result (out of 5 criteria)</b>		<b>Condition Assessment Score</b>		<b>Score Achieved x/√</b>															
Passes 5 criteria		Good (3)																	
Passes 3 or 4 criteria		Moderate (2)																	
Passes 2 or fewer criteria		Poor (1)																	
Suggested enhancement interventions to improve condition score																			

## Appendix 7. Individual Tree Condition Assessment Table

Tree number (Arboricultural Report)	T1	T2	G3	T4	T5	G6	T8	G14 (Part 1)	G14 (Part 2)
Number of component trees	1	1	1	1	1	5	1	3	1
Size	Small	Medium	Small	Small	Small	Small	Small	Small	Small
A - Tree is a native species	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
B - Tree canopy is predominantly continuous	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
C - The tree is mature	No	Yes	No	No	No	No	No	No	No
D - There is little or no evidence of an adverse impact on tree health by human activities	No	No	No	No	No	No	No	No	Yes
E - Natural ecological niches for vertebrates and invertebrates are present	Yes	No	No	No	No	No	Yes	No	No
F - More than 20 % of the tree canopy is oversailing vegetation beneath	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Condition	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Poor	Moderate
Notes	Pruning wounds and compaction damage	Bark damage	Compaction	Bark damage and exposed roots	Bark damage and exposed roots	Soil erosion and exposed roots	Pruning wounds, soil erosion, bark damage and compaction	Two apple and one pear. Damage from grazing	One pedunculate oak

## **Appendix 8. Tree Constraints Plan**



**Appendix 5:  
Tree Constraints Plan**  
Land at South View Hill Street, Darfield  
Ref: AWA5536

BRITISH STANDARD 5837:2012  
RETENTION CATEGORIES  
Definitions of these categories can be found in Appendix 2 of the report.

SCALE: 1:500 PAPER: A2

	CATEGORY A: HIGH VALUE RETENTION MOST DESIRABLE
	CATEGORY B: MODERATE VALUE RETENTION DESIRABLE
	CATEGORY C: LOWER VALUE COULD BE RETAINED
	CATEGORY U: UNSUITABLE FOR RETENTION
	RPA: ROOT PROTECTION AREA
	TREE STEM

## Appendix 9. Biodiversity Metric Headline Results

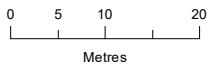
South View Darfield					
Headline Results					
Scroll down for final results ▲					
On-site baseline	Habitat units	4.88			
	Hedgerow units	0.87			
	Watercourse units	0.00			
On-site post-intervention <small>(Including habitat retention, creation &amp; enhancement)</small>	Habitat units	2.12			
	Hedgerow units	0.90			
	Watercourse units	0.00			
On-site net change <small>(units &amp; percentage)</small>	Habitat units	-2.76	-56.54%	On-site net gain is less than target set ▲	
	Hedgerow units	0.23	34.42%		
	Watercourse units	0.00	0.00%		
Off-site baseline	Habitat units	0.00			
	Hedgerow units	0.00			
	Watercourse units	0.00			
Off-site post-intervention <small>(Including habitat retention, creation &amp; enhancement)</small>	Habitat units	0.00			
	Hedgerow units	0.00			
	Watercourse units	0.00			
Off-site net change <small>(units &amp; percentage)</small>	Habitat units	0.00	0.00%		
	Hedgerow units	0.00	0.00%		
	Watercourse units	0.00	0.00%		
Combined net unit change <small>(Including all on-site &amp; off-site habitat retention, creation &amp; enhancement)</small>	Habitat units	-2.76			
	Hedgerow units	0.23			
	Watercourse units	0.00			
Spatial risk multiplier (SRM) deductions	Habitat units	0.00			
	Hedgerow units	0.00			
	Watercourse units	0.00			
<b>FINAL RESULTS</b>					
Total net unit change <small>(Including all on-site &amp; off-site habitat retention, creation &amp; enhancement)</small>	Habitat units	-2.76			
	Hedgerow units	0.23			
	Watercourse units	0.00			
Total net % change <small>(Including all on-site &amp; off-site habitat retention, creation &amp; enhancement)</small>	Habitat units	-56.54%		Total net gain achieved is less than target set ▲	
	Hedgerow units	34.42%			
	Watercourse units	0.00%			
Trading rules satisfied?	No - Check Trading Summaries ▲				

## **Appendix 10. Proposed Habitat Plan For Metric**



Survey Information	
	Site boundary (11,378.2m <sup>2</sup> )
UK Habitat Survey (Primary Habitats)	
	g3c - Other neutral grassland (731.7m <sup>2</sup> )
	g4 - Modified grassland (186.9m <sup>2</sup> )
	h3h - Mixed scrub (722.2m <sup>2</sup> )
	u1b - Developed land; sealed surface (6,987.7m <sup>2</sup> )
	828 - Vegetated garden (2,749.7m <sup>2</sup> )
	h2a - Other native hedgerow, retained (55.9m)
	h2a5 - Species-rich native hedgerow (66.8m)
	32 - Scattered tree, small newly planted (22)

Source: Ordnance Survey © Crown copyright 2024. All rights reserved. License Number 100049837.



PROJECT TITLE  
**LAND AT SOUTH VIEW, DARFIELD**

DRAWING TITLE  
**Figure 2. Proposed Habitat Plan**

VER	DATE	REMARKS	Drawn	Checked
2.1	10/12/24	Proposed	MP	RB

DRAWING NUMBER:  
**MIDDLETONBELLECOLOGY/LandatSouthView/Proposed**

SCALE	1:800	PLOT SIZE	A3	DATUM	OSGB	PROJECTION	BNG
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## Appendix 12. Bats and Roofing Membranes

Standard roof membranes can cause the death of significant numbers of bats. Traditional bitumen coated roofing felt is recommended where roosting bats are expected to be present.

### The problem

Standard non-bitumen coated membranes (including almost all breathable membranes) used below roof slates and tiles present a significant problem for bats. Over time, strands are pulled away from the surface of these materials as bats crawl over them. These fuzzy strands are very strong and can tangle and trap bats, sometimes causing the death of bats over multiple years<sup>1</sup>.

One example we have encountered comprised a pipistrelle roost which formed in a building extension constructed in 2009. Over the course of just 13 years the roofing felt degraded to the extent that it trapped and killed more than 10 bats. Fortunately, the problem in this roost was identified and remedial work was undertaken to replace the roofing membrane in 2022.

### Plate A12.1. Four dead pipistrelles tangled in breathable roofing membrane



Although a new roof might be considered to lack potential bat access points, that is often not the case. Roofs covered with stone slates almost always have gaps large enough to be accessed by bats, this is often also the case where imitation stone slates are used. On older buildings the uneven roof timbers and/or building design also often results in gaps on wall tops and between slates. Even on new builds it is often possible for bats to access potential roosts via features such as dry verge capping. Some bats can access a space no wider than a biro pen, therefore it is not surprising that they can find their way into most buildings.

### Safe roofing membranes (and membranes behind cladding)

From a bat perspective, the best membrane option for areas where roosts are expected comprises traditional hessian-backed Type 1F bituminous felt. This product has been widely and safely used as a secondary weather barrier since approximately the 1950s/1960s. Wooden sarking has also been used for many decades and if appropriately treated, is safe for use in bat roosts. Wooden sarking also has the benefit of providing adding additional insulation

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<sup>1</sup> Wearing S. Essah E., Gunnel K. & Bonser R. (2013) Double jeopardy: the potential for problems when bats interact with breathable roofing membranes in the United Kingdom. Architecture and Environment

and it is usually breathable.

At the time of writing (and to our knowledge) two products have passed the ‘snagging propensity’ test; consequently these products are approved by Natural England for use in bat roosts. This test attempts to replicate the wear and tear which results from bats crawling over the membrane. The approved products are: TLX BatSafe<sup>2,3</sup> and SIGA Majcoat 350. Although they have passed this test, it is unclear how these membranes will degrade in the medium-long term, particularly in larger bat roosts. Therefore we do not recommend that they are used for roosts with multiple bats, and particularly for large (maternity roosts). A third product, SIGA Majcoat 200 SOB Diffusion, passed the test for its upper surface only. This product should not be used in known bat roosts or locations where bat mitigation is to be installed. Although none of these products are considered to be as safe as traditional Type 1F bituminous felt, they may provide an option for roofs where future bat use cannot be ruled out, and a breathable solution is required.

### Additional considerations

In recent years a fairly substantial proportion of the lofts we have surveyed which had existing breathable felt, were found to have been damaged by wasps (Plate A3.2). The wasps appear to have chewed holes in the felt and formed nests. This doesn't appear to be a problem associated with traditional bitumen coated roofing felt. Any holes within roofing felt are likely to significantly reduce its functionality as a secondary weather barrier. Where bats or birds come into contact with breathable roofing membranes, they can also damage it causing it to leak, they can also significantly reduce the breathability of the felt in that location.

#### Plate A12.2. Damage to a breathable roofing membrane adjacent to a wasp nest



Traditional bituminous Type 1F roofing felt is a non-breathable product and therefore ventilation is required. Sufficient ventilation can be usually be achieved, even in buildings with vaulted ceilings, however, some consideration during the design stage is required. Products to increase the ventilation within roofs where bituminous Type 1F felt has already been installed are also available.

<sup>2</sup> <https://www.gov.uk/government/publications/bats-apply-for-a-mitigation-licence#full-publication-update-history~:text=Use%20of%20safe%20roofing%20membranes>

<sup>3</sup> TLX BatSafe requires all joints and cut edges to be taped in order to prevent the fraying of bare edges.