

A1 Birtley to Coal House

Scheme Number: TR010031

ES Addendum: Additional Land – Appendix C Update Preliminary Ecological Appraisal: Updated to Incorporate Preliminary Bat Roost Assessment

Planning Act 2008

Rule 8(1)(b)

Infrastructure Planning (Examination Procedure Rules) 2010





Infrastructure Planning

Planning Act 2008

The Infrastructure Planning (Examination Procedure Rules) 2010

A1 Birtley to Coal House Development Consent Order 20[xx]

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EXECUTIVE SUMMARY

An extended Phase 1 assessment of the Order Limits was completed in 2018 (**Appendix 8.1: Preliminary Ecological Appraisal, Volume 3** of the ES [**APP-123**]. This Preliminary Ecological Appraisal report supplements this assessment, in order to assess the additional land that was proposed to be included in the Scheme in January 2020 [refer to AS-009] and was subsequently accepted into the Examination of the Scheme in May 2020. The additional land is directly adjacent to previously surveyed land in Lamesley, Gateshead.

This report comprises a desk study, a field survey, a preliminary bat roost assessment (PBRA) and appraisal/recommendations. The desk study reviewed and collated publicly available data and requested biological records to gather existing information regarding the presence of protected sites, habitats, and important or protected/notable species on or within proximity to the additional land. The field survey and PBRA were undertaken in February 2020. The survey comprised a walkover of the additional land to document the habitats present and their suitability to support protected/notable species, as well as an external inspection of all buildings and structures present on the additional land and within 50m, to assess their potential suitability for roosting bats.

The desk study identified two non-statutory designated sites within 200m of the additional land: Lamesley Meadows Local Wildlife Site (LWS) and the River Team Extension LWS.

A number of habitats were recorded on the additional land, including poor semi-improved grassland (grazed pasture), scattered scrub, scattered trees, tall ruderal and boundary features such as hedgerows, fences and walls. The habitats present both within and bordering the additional land were suitable to support bats, and wintering and breeding birds.

To ensure compliance with legislation and planning policy, further survey effort is recommended, with several of these surveys already underway or completed. The recommended further surveys are outlined within this report, with the findings to be presented in separate reports.

The impacts during construction and operation of the Scheme in relation to the additional land have been fully assessed and presented within the ES Addendum: Additional Land [**REP4-058**] report, which supports the ecological impact assessment presented in **Chapter 8**: **Biodiversity** of the Environmental Statement [**APP-029**]. The ES Addendum: Additional Land (**REP4-058**) also details additional proposed avoidance, mitigation and compensation measures to those detailed in **Chapter 8**: **Biodiversity**, if required to address additional predicted impacts. Following these surveys, the ecological impact assessment within the ES Addendum: Additional Land (**REP4-058**) is considered to remain valid.



1. INTRODUCTION

1.1. PROJECT BACKGROUND

- 1.1.1. An application for development consent, which included an ES, was submitted to the Secretary of State for Transport via the Planning Inspectorate (the "Inspectorate") on 14 August 2019 for the A1 Birtley to Coal House Scheme ("the Scheme").
- 1.1.2. Design development has continued to be undertaken by Highways England ("the Applicant") and its advisers since the application for a Development Consent Order (DCO) was made in order to realise efficiencies and design benefits.
- 1.1.3. In January 2020 Highways England submitted a proposed change to the A1 Birtley to Coal House Scheme (the "Scheme") to include an area of additional land ("additional land") for the purpose of stockpiling materials during the construction of the Scheme. This change was subsequently accepted into the Examination in May 2020.
- 1.1.4. A full description of the Scheme is provided in Chapter 2: The Scheme, Volume 1 of the ES [APP-023] with additional information provided within Chapter 2: The Scheme of the ES Addendum: Additional Land [REP4-058]. The layout of the additional land is provided in Appendix E, Figure 2.1: Scheme Location Plan.
- 1.1.5. This Preliminary Ecological Appraisal (PEA) has been carried out to support the environmental impact assessment that was carried out for the additional land and reported within the ES Addendum: Additional Land [**REP4-058**].
- 1.1.6. At the time that the ES Addendum: Additional Land [**REP4-058**] was submitted into the Examination certain surveys remained to be performed as part of the assessment of the environmental effects of the inclusion of additional land within the application at junction 67 (Coal House) to be used for material stockpiling. This updated PEA enables the assessments already before the Examining Authority to be ground-truthed in terms of the bat assessment.

1.2. ECOLOGICAL BACKGROUND

1.2.1. An ecological appraisal was completed for the Order Limits during 2018 (**Appendix 8.1: Preliminary Ecological Appraisal**, **Volume 3** of the ES [**APP-123**]. The 2018 PEA included an area of land directly north of the additional land, which was also subject to breeding bird surveys during 2018. Habitats recorded to the north of the additional land included poor semi-improved grassland, scattered trees, scattered scrub, buildings and hard standing. From an initial review of aerial imagery, the habitats within the additional land appear to be of similar types.

1.3. SCOPE OF REPORT

 The scope of this report is to validate the assessment completed within Chapter 5: Biodiversity of the ES Addendum: Additional Land [REP4-058], including:



- Providing a ground-truth of the baseline ecological information for the additional land (including a PBRA) and a surrounding study area with particular reference to whether legally protected and/or notable sites, species or habitats are present or likely to be present;
- Assessing if additional recommendations are required to enable compliance with relevant nature conservation legislation and planning policy; and
- Assessing if there is a need for additional avoidance, mitigation, compensation or enhancement measures.

1.4. RELEVANT LEGISLATION AND POLICY

- 1.4.1. The PEA has been compiled with reference to the following relevant nature conservation legislation, planning policy and the UK Biodiversity Framework from which the protection of sites, habitats and species is derived in England. The context and applicability of each item is explained as appropriate in the relevant sections of the report and additional details are presented in **Appendix C.1**.
 - The Conservation of Habitats and Species Regulations 2017 (as amended) (the Habitats Regulations);
 - Wildlife and Countryside Act (WCA) 1981 (as amended);
 - Countryside Rights of Way Act 2000;
 - Natural Environment and Rural Communities (NERC) Act 2006 (England);
 - Protection of Badgers Act 1992;
 - The Hedgerow Regulations 1997;
 - Wild Mammals (Protection) Act 1996;
 - The UK Post-2010 Biodiversity Framework (2011-2020) (JNCC and DEFRA, 2012);
 - Biodiversity 2020: A strategy for England's wildlife and ecosystem services (DEFRA, 2011);
 - UK Biodiversity Action Plan (UKBAP)¹;
 - National Planning Policy Framework (NPPF) 2019 (Ministry of Housing Communities & Local Government, February 2019);
 - Planning for the Future Core Strategy and Urban Core Plan for Gateshead and Newcastle-upon-Tyne 2010-2020 (hereby referred to as the 'Local Plan')
 - Action for Wildlife: The Durham Biodiversity Action Plan (applicable for Gateshead)
 - Highways England Biodiversity Plan, June 2015

¹ The UK BAP has now been replaced by the UK Post-2010 Biodiversity Framework, however, it contains useful information on how to characterise important species assemblages and habitats which is still relevant.



2. METHODS

2.1. OVERVIEW

- 2.1.1. This PEA has been prepared with reference to current good practice guidance published by the Chartered Institute for Ecology and Environmental Management (CIEEM) (2017a) and Joint Nature Conservation Committee (JNCC) (2010); and guidance contained in the British Standard - Code of Practice for Biodiversity and Development BS42020:2013 (British Standards Institution, 2013).
- 2.1.2. This PEA is based on the following data sources:
 - An ecological desk study
 - A habitat survey
 - A protected/notable species assessment
 - A preliminary bat roost assessment (PBRA)

2.2. DESK STUDY

- 2.2.1. A desk study was undertaken in February 2020 to review existing ecological baseline information available in the public domain and to obtain information held by relevant third parties. For the purpose of the desk study, records obtained from the Environmental Records Information Centre (ERIC) North East in 2018 (protected/notable species) and 2019 (non-statutory sites) were consulted. Records were obtained within various distances around the Order Limits. The search areas are consistent with current good practice guidance published by the CIEEM (2017b and 2018). Records within the following desk study search areas were obtained:
 - Legally protected and notable species within 2km of the Order Limits;
 - Bat records within 5km of the Order Limits; and
 - Records of non-statutory sites designated for nature conservation value within 2km of the Order Limits.
- 2.2.2. The findings of the 2018 desk study records have been incorporated within Section 3 and **Appendix C-2** of this report. It should be noted that the records were obtained within proximity to the entirety of the Order Limits (at the time of the data search, 2018/19) and therefore may occur at greater distances from the additional land than the search distances stated above. This has been considered within this report and only records within 2km of the additional land have been considered relevant.



- 2.2.3. Freely downloadable datasets (available from Natural England) were consulted for information regarding the presence of statutory designated habitats² within 2km of the additional land. This search was extended to 10km for Natura 2000 sites (Special Areas of Conservation (SAC) and Special Protection Areas (SPA)) of European importance and internationally designated Ramsar sites).
- 2.2.4. Records of Habitats of Principal Importance (HPI)³ within 2km of the additional land were provided by ERIC North East, although these were used for reference only. Freely downloadable datasets (available from Natural England) were consulted for information regarding woodland listed on the Ancient Woodland Inventory⁴ within 2km of the additional land.
- 2.2.5. In addition, open source 1:25,000 Ordnance Survey mapping was used to identify any mapped water bodies and watercourses within 500m of the additional land.

2.3. HABITAT SURVEY

- 2.3.1. A Phase 1 habitat survey of the additional land was carried out on 05 February 2020 in clear, dry conditions. The survey covered the entire additional land including boundary features. The Phase 1 habitat survey was carried out by a Consultant and Assistant Ecologist, both of whom have extensive experience of completing similar assessments.
- 2.3.2. Habitats were described and mapped following the standard Phase 1 habitat survey methodology (JNCC, 2010). Phase 1 habitat survey is a standard technique for classifying and mapping British habitats. The dominant plant species were recorded, and habitats are classified according to their vegetation types. Where appropriate consideration was given to whether habitats qualify, or could qualify, as a HPI following habitat descriptions published by the JNCC (JNCC, 2008).
- 2.3.3. A list of plant species was compiled (Appendix C-3), with relative plant species abundance estimated using the DAFOR scale⁵. The scientific names for plant species follow those in the New Flora of the British Isles (Stace, 2019) and are also listed in Appendix C-3.

² Sites of Special Scientific Interest (SSSI), National Nature Reserves (NNR) and Local Nature Reserves (LNR).

³ Mapped locations of HPI are usually not available, but HPI aligns in the most part with UKBAP habitats. Inventories of UKBAP habitat have been prepared by a variety of organisations and at a national (Natural England priority habitat inventory) and local scale (e.g. by local records centres). In some instances these are primarily based on aerial photograph analysis rather than field survey.

⁴ The ancient woodland inventory in England lists areas over two hectares in size which have been continuously wooded since at least 1600.

⁵ The DAFOR scale has been used to estimate the frequency and cover of the different plant species as follows: Dominant (D) - >75% cover, Abundant (A) – 51-75% cover, Frequent (F) – 26-50% cover, Occasional (O) – 11-25% cover, Rare



- 2.3.4. Habitats were marked on a paper base map and were subsequently digitised using a Geographical Information System (GIS).
- 2.3.5. Target notes were made to provide information on specific features of ecological interest (e.g. the location of a bat box) or habitat features too small to be mapped. These are included in **Appendix C-4**.
- 2.3.6. Invasive plant species listed on Schedule 9 of the WCA 1981 (as amended) would have been incidentally recorded where evident during the Phase 1 habitat survey and recorded in target notes. The Phase I habitat survey is a broad survey of habitats, therefore detailed mapping of such species or a full survey of the Additional Land for all invasive plant species is beyond the scope of this PEA. If required, this would be detailed within the recommendations section.

2.4. SPECIES ASSESSMENT

- 2.4.1. The potential for the additional land to support legally protected and notable species was assessed using the desk study results combined with field observations during the Phase 1 habitat survey. The assessment of habitat suitability for protected and notable species was based on professional experience and judgement. This was supplemented by standard sources of guidance on habitat suitability assessment for key faunal groups including: birds (Gilbert et al, 1998 and Bibby et al, 2000), great crested newt *Triturus cristatus* (Gent and Gibson, 2003 and English Nature, 2001); reptiles (Froglife, 1999 and Gent and Gibson, 2003); bats (Collins, 2016 and Mitchell-Jones, 2004); and badger *Meles meles* (Harris et al, 1991 and Roper, 2010).
- 2.4.2. In addition, all water bodies within the additional land were assessed for their suitability to support great crested newts, using the standard HSI assessment method (ARG UK, 2010, based on Oldham et al. (2000)).
- 2.4.3. Water bodies were assessed and scored on ten key variables which are known to influence breeding populations of great crested newts, in accordance with standard methods (ARG UK, 2010). These variables are:
 - Geographic location;
 - Water body area;
 - Water body permanence;
 - Water quality;
 - Water body shading;
 - Impact of waterfowl;

⁽R) - 1-10% cover., The term 'Locally' (L) is also used where the frequency and distribution of a species are patchy and 'Edge' (E) is also used where a species only occurs on the edge of a habitat type.



- Fish stocks;
- Number of water bodies within 1km;
- Terrestrial habitat around the water body; and
- Macrophyte cover of the water body.
- 2.4.4. Scores for each of the above variables were used to calculate an overall HSI value for each water body. This was then cross referenced with the guidelines (ARG, 2010) to assign the pond to one of five categories, poor, below average, average, good or excellent. Index calculation is not a failsafe method of identifying whether a water body supports great crested newts or not; therefore, professional judgement and availability of records of great crested newt in the locality has also been used to inform the requirement for further survey.
- 2.4.5. Results of HSI assessments and raw data can be found in Appendix C-6.

PRELIMINARY BAT ROOST ASSESSMENT

- 2.4.6. A building and tree bat roost assessment of the additional land, plus a buffer of 50m around its boundary (the "PBRA Survey Area"), was conducted to enable an assessment of their potential to support bat roosts, and to search for evidence indicating the current or historic use of the building by roosting bats.
- 2.4.7. A visual inspection of the exterior of buildings using binoculars was completed to search for features which may provide potential roosting opportunities for bats. Where suitable features were noted, their location and a brief description of their character was recorded. Additionally, each feature was visually inspected for evidence indicating use by roosting bats such as droppings, urine staining, and scratch marks / characteristic staining (from fur oils). Where it was safe to do so, an internal inspection was also completed to search for similar features and evidence inside buildings; particular attention was paid to loft spaces and cellars.
- 2.4.8. Buildings and trees were categorised in line with the descriptions in **Table 2-1**. Based on the features present and the location of the buildings, the potential for different types of bat roost was also considered. For the purpose of this preliminary roost assessment potential roost types were grouped as follows (from Collins, 2016):
 - Maternity (breeding roost);
 - Summer / transitional (to include transitional, satellite, night and day roosts); and
 - Hibernation.

Table 2-1 - Roost Potential Categorisation

| Category | Description |
|-----------|--|
| Confirmed | Buildings and trees with features confirmed to be used by roosting bats either by historic records (verified appropriately), or evidence recorded during survey. |



| Category | Description |
|------------|--|
| High | Buildings and trees with highly suitable features capable of supporting larger roosts, and/or multiple roost locations. Generally, these buildings are located in proximity to highly suitable foraging/commuting habitat such that the presence of a roost is considered highly probable. |
| Moderate | Buildings and trees exhibiting features with definite bat roost potential, but with only one or two suitable features suitable for larger roosts, or multiple features with the potential to be used by individual/small numbers of bats. Surrounding area includes good quality foraging habitat for bats e.g. broadleaved woodland, tree-lined watercourses and grazed parkland such that the presence of a roost is considered probable. |
| Low | Building with single, or few features capable of supporting individual/small numbers of bats e.g. external roosting features such as fascia or soffit boards, in which bats are considered less likely to be present. Or, a greater number or variety of features located in sub-optimal habitat such that bats would be less likely to use it e.g. isolated from foraging or commuting habitats. Trees with no obvious potential, although the tree is of a size and age that elevated surveys may result in cracks or crevices being found; or the tree |
| | supports some features which may have limited potential to support bats. |
| Negligible | Buildings and trees with no potential opportunities for roosting bats, or very few or minor features in an isolated/unsuitable location such that the presence of a roost is considered highly improbable. e.g. isolated from suitable foraging or commuting habitats. |

2.5. NOTES AND LIMITATIONS

2.5.1. The following limitations apply to this assessment:

- Ecological survey data is typically valid for two years unless otherwise specified, for example if conditions are likely to change more quickly due to ecological processes or anticipated changes in management.
- Records held by local biological record centres and local recording groups are generally collected on a voluntary basis. Therefore, the absence of records does not demonstrate the absence of species, it may simply indicate a gap in recording coverage.
- The survey was not completed during the optimal survey season for Phase 1 habitat survey, generally considered to be from April-September (inclusive). Botanical surveys are seasonally limited, and throughout the spring and summer period certain species will be more, or less, evident at different times (i.e. depending on the flowering season). However, sufficient information was gathered to enable an assessment of the habitat



types present, in line with standard Phase 1 habitat categories and the potential for these to support protected or notable species.

- The Phase 1 Habitat survey was carried out over the period of a single day, as such only
 a selection of all species that occur within the additional land will have been recorded.
 However, through use of desk study information to supplement site survey data, it is
 considered that an accurate assessment of the potential for the additional land to
 support protected species or those of conservation concern was possible.
- The extended Phase 1 habitat map (Figure 1) has been reproduced from field notes and plans. Whilst this provides a sufficient level of detail to fulfil the requirements of a PEA, the maps are not intended to provide exact locations of key habitats.
- Access to trees and buildings for the PBRA was limited. The tree line assessed in the railway corridor immediately east of the additional land was located behind a tall steel fence. Therefore, it was not possible to complete a full assessment. Access was not granted to access the two residential and one commercial complex within 50m of the additional land. However, these areas of land fall outside of the Order Limits. This has been taken into consideration within the assessment process within assessment and approach agreed with Natural England.



3. **RESULTS**

3.1. DESIGNATED SITES AND HABITATS STATUTORY SITES

3.1.1. No statutory sites (local, national or international) were identified within the desk study search areas.

NON-STATUTORY SITES

3.1.2. The desk study identified 13 non-statutory nature conservation sites within 2km of the additional land. A description of these sites is detailed in **Table 3-1** below and shown on **Figure 2**.

| Site Name | Designation | Size (ha) | Distance and orientation from Site | Description |
|-------------------------|---|--------------|---|--|
| Lamesley Meadows | Gateshead LWS | 20 | 0.08km southwest | A site containing permanent pasture, riverbank, ponds and reed beds. The site supports breeding waders such as lapwing Vanellus vanellus, redshank Tringa tetanus and snipe Gallinago gallinago. Otter Lutra lutra have also occasionally been recorded in the River Team. |
| River Team Extension | Multiple Ownership LWS (Gateshead, Sunderland & Durham Councils) | 11.8 | 0.16km west | The river has several bankside habitats listed under the BAP. The river has two main bankside habitats, which often alternate. In open, grazed land, the river usually has a good selection of aquatic habitat and small stands of branched bur-reed <i>Sparganium erectum</i> . In the wooded sections, the aquatic flora is considerably reduced by shade. The river is interrupted by several bridges and small weirs. |

Table 3-1 – Non-Statutory Sites within 2km



| Site Name | Designation | Size (ha) | Distance and orientation from Site | Description |
|--|---------------|--------------|---|---|
| Long Acre Wood | Gateshead LWS | 12 | 0.25km east | A substantial area of semi- natural deciduous woodland in an otherwise industrial and urban setting. The site is considered an important reservoir of local wildlife, with the presence of common spotted <i>Dactylorhiza fuchsia</i> and northern marsh <i>Dactylorhiza purpurella</i> orchids. This site also represents a wildlife corridor crossed by the Scheme. |
| Lamesley Reedbeds | Gateshead LWS | 8 | 0.87km southwest | The main habitat is a large reedbed, the largest <i>Phragmites</i> bed in Gateshead. There are also pools and tree planted areas. The wildlife assemblage includes, of particular importance, otter and kingfisher <i>Alcedo atthis (</i> Schedule 1 species, WCA 1981). |
| Hagg Wood / Gill and Mitcheson's Gill | Gateshead LWS | 5 | 0.9km southwest | The site supports semi-natural woodland and scrub, supporting breeding birds that include spotted flycatcher <i>Muscicapa striata</i> , hedge sparrow and song thrush. Badger are also regularly present. |
| Bowes Railway | Gateshead LWS | 5 | 1km south east | A 6km length of recolonised, disused railway line with patches of heathland and acid grassland. There are small areas of linear woodland and a small pond. This site also represents a wildlife corridor crossed by the Scheme. |
| Birtley Union Brickworks | Gateshead LWS | 7.5 | 1km south | A disused brickwork with a mosaic of wetland and |



| Site Name | Designation | Size (ha) | Distance and orientation from Site | Description |
|-----------------------------------|---------------|--------------|---|---|
| | | | | grassland habitats (including marsh). The site also includes several ponds, which are known to support breeding great crested newt. Much of the southern part of the site has been damaged by infill activities from the adjacent active brickworks, however, the central areas retain considerable wildlife value. |
| Team Colliery | Gateshead LWS | 7 | 1km east | Supports a particularly good example of species-rich early successional open mosaic habitats. Particularly notable for their orchid population. |
| Long Acre Dene | Gateshead LWS | 2 | 1.1km south east | An area of ancient semi-natural woodland in the valley of the River Team. The site is noted for its bird assemblage, including breeding hedge sparrow and song thrush, and frequent presence of hedgehog. |
| Bowes Valley Nature Reserve | Gateshead LWS | 31 | 1.2km southwest | Most of the site consists of grasslands, sown with wild-flower mixes, which have established quite successfully and support butterfly populations of importance (grayling <i>Hipparchia Semele</i> and dingy skipper <i>Erynnis tages</i>). The site contains two ponds that support populations of common amphibians. The breeding bird assemblage contains a variety of birds with little ringed plover <i>Charadrius dubius</i> of particular interest (Schedule 1 species, WCA 1981 (as amended)). |



| Site Name | Designation | Size (ha) | Distance and orientation from Site | Description |
|----------------------------------|---------------|--------------|---|---|
| Ravensworth Ponds and Wood | Gateshead LWS | 148 | 1.5km north west | This is one of the largest wildlife sites in Gateshead, conferring added importance as a refuge for wildlife, including badger and red squirrel <i>Sciurus vulgaris</i> . The site includes ancient replanted woodland, broadleaved and coniferous woodland in addition to several ponds. Great crested newts <i>Triturus cristatus</i> have been reported within the ponds. The site is considered ecologically diverse and supports a wide range of wildlife. |
| River Team Woodlands | Durham LWS | 20 | 1.6km south | An ancient woodland site of mixed deciduous and coniferous woodland, with a diverse ground layer. The rare climbing corydalis <i>Corydalis claviculata</i> occurs within the northeast of the site, which is considered to be of ornithological value. |
| Dunkirk Farm West | Gateshead LWS | 1 | 1.8km south east | The site includes grazed paddock and a disused wagon way (an extension of the Bowes Railway Line LWS). The site is noted for its breeding hedge sparrow and song thrush, and frequent presence of hedgehog. This site also represents a wildlife corridor crossed by the Scheme. |

ANCIENT WOODLAND

3.1.3. There is no ancient woodland within the additional land. The closest area of ancient woodland is approximately 1.4km to the north-west at Hill Head Wood.



3.2. HABITAT SURVEY

OVERVIEW

3.2.1. The following account summarises the findings of the Phase 1 habitat survey. Nine Phase 1 habitat types were identified in the additional land. The habitats are mapped on Figure 1 and are listed in Table 3-2, along with areas in hectares (or length in metres for linear features). A description of the dominant and notable species and the composition and management of each habitat is provided below. An indicative species list is provided in Appendix C-3. Target notes are provided in Appendix C-4 and photographs in Appendix C-5. Alpha-numeric codes used in this section cross-refer to the JNCC Phase 1 habitat survey classification (JNCC, 2010). The order of the habitat descriptions below reflects their ordering in the Phase 1 habitat survey manual and does not indicate importance.

| Phase 1 Habitat | Area (ha) | Length (m) | % of additional land area |
|--|--------------|---------------|---------------------------|
| A2.2: Scattered Scrub | 0.06 | | 1 |
| A3.1: Scattered Broadleaf Trees | 0.2 | | 3 |
| B6: Poor Semi-Improved Grassland | 5.2 | | 87 |
| C3.1: Tall Ruderal | 0.3 | | 6 |
| G1.3: Standing Water - Oligotrophic | 0.2 | | 3 |
| J2.1.2: Intact Hedge – Species Poor | | 160 | |
| J2.4: Fence | | 1200 | |
| J2.5: Wall | | 165 | |
| J3.6: Buildings | 0.003 | | 0 |
| TOTAL | 5.963 | 1525 | 100 |

Table 3-2 – Phase 1 Habitat Types

A2.2: SCATTERED SCRUB

3.2.2. Small patches of hawthorn *Crataegus monogyna* were present on the northern and southern boundaries of the additional land, with frequent bramble *Rubus fruticosus,* frequent dog rose *Rosa canina* and rare common broom *Cytisus scoparius* also present along the southern boundary.



A3.1 SCATTERED BROADLEAVED TREES

3.2.3. Scattered broadleaved trees were present on the eastern and southern boundary of the additional land. Trees included dominant poplar *Populus* spp. (**Photo 4; Appendix C-5**), which was coated heavily with lichen species, and frequent silver birch *Betula pendula*.

B6: POOR SEMI-IMPROVED GRASSLAND

3.2.4. The majority of the additional land was comprised of two poor-semi improved grassland fields used to graze horses. There was clear evidence of persistent horse grazing and horses were present during the survey. The field undulated resulting in depressions where water gathered. Species included dominant perennial ryegrass *Lolium perenne*, abundant cock's foot *Dactylis glomerata* and frequent creeping bent *Agrostis stolonifera* and creeping buttercup *Ranunculus repens*. Rare occurrences of soft rush *Juncus effusus* were also present (**TN7, Figure 1**).

C3.1: TALL RUDERAL

3.2.5. A large linear patch of tall ruderal existed on a steep verge along the southern boundary of the additional land. This patch included frequent willowherb *Epilobium* sp. and male fern *Dryopteris filix-mas* and rare occurrences of common knapweed *Centaurea nigra*.

G1.3: STANDING WATER – OLIGOTROPHIC

- 3.2.6. Six ephemeral water bodies were identified during the survey. Vegetation present was identical to that identified within the poor semi-improved grassland on the additional land (Photo 2; Appendix C-5). This included occasional common dock *Rumex obtusifolius* and occasional creeping buttercup and perennial ryegrass.
- 3.2.7. The largest areas of water, located at the northern and western boundary of the additional land, appeared to have persisted for some time as they were found to be deeper than the rest of the waterbodies found on the additional land. Additionally, there was a drainage pipe that connected these two waterbodies (TN3 & 4, Figure 1). Further, a culvert going under Lamesley Road was present at the most westerly area of water, which connects the two largest waterbodies on the additional land to land connected with the River Team Extension LWS (TN2; Figure 1. Photo 1; Appendix C-5).

J2.1.2: INTACT HEDGE – SPECIES POOR

3.2.8. A hedgerow consisting entirely of hawthorn separated the two poor semi-improved grassland fields. The hedgerow connected to the northern boundary of the additional land along the fence line and to the southern boundary of the additional land along the verge (**Photo 3; Appendix C-5**).

J2.4: FENCE

3.2.9. Boundary fencing existed around all boundaries of the additional land, comprised of barbed wire fencing and tall steel fencing separating the additional land from the railway line to the east.



J2.5: WALL

3.2.10. Stone walls exist along the western boundary of the additional land to separate it from the road and residential housing directly adjacent.

J3.6 BUILDINGS

3.2.11. Three buildings were identified within the additional land; two small timber stables with pitched roofs (**TN1, Figure 1**) and a large metal container with a flat roof (**TN6, Figure 1**), currently serving as a third shelter for horses that reside on additional land.

3.3. PROTECTED AND NOTABLE SPECIES ASSESSMENT

- 3.3.1. The potential for the additional land to support legally protected species and notable species has been assessed using the results of the desk study and observations made during the site survey of habitats within and immediately surrounding the additional land. A summary of desk study information is included within Appendix B, extracted from Appendix 8.1: Preliminary Ecological Appraisal, Volume 3 of the ES [APP-123]. Desk study records have only been considered below if they were recent (from the last 10 years) and/or if they relate to species that may be supported by habitats at the additional land. Habitats present within the additional land are suitable for the following species; further consideration is given below to the likelihood for these species to be present within the additional land:
 - Amphibians
 - Bats
 - Badger
 - Birds
 - Reptiles
 - Brown Hare
 - Hedgehog
- 3.3.2. The additional land does not provide suitable habitat for other protected or notable species. As such, other species, beyond those listed above, will not be considered further in this PEA.

AMPHIBIANS

- 3.3.3. The biological records obtained from ERIC North East included records for common toad *Bufo bufo*, palmate newt *Lissotriton helveticus*, common frog *Rana temporaria* and great crested newt within 2km of the additional land. The great crested newt records were all over 600m distance from the Order Limits and therefore, not considered to reflect populations likely to be impacted by the Scheme. As potential impacts to populations are only considered up to 500m from any give additional land (English Nature, 2001). Additionally, there is no hydrological connection of the additional land to ponds with great crested newt suitability.
- 3.3.4. The six ephemeral waterbodies identified on the additional land were subject to HSI assessments, all of which indicated Poor suitability for great crested newts (**Appendix F**).



This was generally due to the ephemeral nature of the waterbodies, their lack of connectivity to waterbodies in the surrounding area and the lack of appropriate vegetation. There were no other waterbodies suitable for great crested newts within 500m of the additional land.

3.3.5. Suitable terrestrial habitat for amphibians was recorded, including areas of scrub, grassland and linear features such as hedgerows. However, due to the absence of suitable aquatic habitat, amphibians are considered likely to be absent.

BATS

- 3.3.6. The biological records included the presence of common pipistrelle *Pipistrellus pipistrellus*, soprano pipistrelle *Pipistrellus pygmaeus*, noctule *Nyctalus noctula*, unconfirmed *Pipistrellus* species and unconfirmed bat species. Of the thirty-two bat records returned, only a single roost record was present; a small common pipistrelle roost that was destroyed under licence in 2013 (over 1.5km from the additional land).
- 3.3.7. The additional land was considered to offer foraging and commuting value for bats in relation to the boundary features (scattered broadleaved trees) and hedgerow within the additional land. These linear habitats provided connectivity to suitable habitats within the wider area that offer higher suitability for bat activity.

Preliminary Bat Roost Assessment

- 3.3.8. The PBRA Survey Area contained two wooden stables (B1 & B2, **Figure 1**), one of which was found to have a bat box installed at the northern gable end (TN1, **Figure 1**). Each had a pitched roof and appeared to have been built recently, as minimal wear was present on the fascias. No potential roosting features (PRF) were recorded, with the exception of the bat box installed to the end of the northern gable. Therefore, these buildings were assessed as having low roost suitability.
- 3.3.9. A large metal container with a flat roof, utilised as a shelter for horses, was located at the eastern end of the first field (B3, **Figure 1**). This was assessed as being negligible roosting suitability due to its size, shape, access points and lack of internal cavities. There were also two residential properties and one commercial property directly adjacent to the west of the additional land (TN7, TN8 & TN9, **Figure 1**), these could not be assessed due to access restrictions. Therefore, an assessment has not been made.
- 3.3.10. Trees which could contain potentially suitable features to support roosting bats were identified directly outside of the additional land. These trees comprised a line of poplar trees at the eastern boundary of the additional land (TN6, Figure 1), which were separated from the additional land by a large steel fence preventing access to the railway corridor. Additionally, a small group of trees within the residential properties could also hold potential for roosting bats (TN8, Figure 1), however due to access restrictions it was not possible to complete a full assessment.



BADGER

- 3.3.11. The biological records returned two badger records within 2km of the additional land, both located over 500m.
- 3.3.12. The additional land does not hold suitable habitat for badger sett creation, with the exception of the hedgerow and scattered trees to the east. However, no setts were recorded during the survey.
- 3.3.13. The additional land provides suitable foraging habitat for badgers, in relation to the poor semiimproved grassland, although there were no signs of badger activity recorded during the survey; such as prints, latrines, guard hairs or feeding scrapes. The wall along the western boundary of the additional land acts as a barrier to badger movement, although the post and wire fences along other boundaries are not considered barriers.

BIRDS

- 3.3.14. The biological records included a large number of bird records (7528 in total) within 2km of the Order Limits⁶. The records included fourteen Schedule 1 (WCA 1981 (as amended)) species, although the habitats within the additional land are not suitable to support these species. However, habitats within the additional land do have suitability to support other notable species. Breeding waders such as lapwing *Vanellus vanellus*, curlew *Numenius arquata*, snipe *Gallinago gallinago* and redshank *Tringa totanus* are listed on the Lamesley Meadows LWS citation, which is located less than 100m to the south-west of the additional land. The ephemeral waterbodies and grassland habitat of the additional land are suitable to support these bird species.
- 3.3.15. Habitats identified within the additional land; including trees, hedgerow and scrub; were suitable for supporting other breeding birds. There was also suitable habitat recorded for foraging wintering birds, such as the poor semi-improved grassland.

REPTILES

3.3.16. There were no records of reptiles within 2km of the additional land. Scattered scrub and dense bramble were present at the additional land boundaries, providing potential shelter for reptiles. However, no reptiles were recorded during a survey of land approximately 150m to the north in 2017 (Appendix 8.8: Reptile Survey Report, Volume 3 of the ES [APP-130]. As such, reptiles are considered to be absent from the additional land.

⁶ Due to the large number of records, these have not been interrogated with respect to records within 2km of the Additional Land.



BROWN HARE

- 3.3.17. There were nine records of brown hare *Lepus europaeus* within the data search, with the majority located over 1km to the southwest near Kibblesworth (closest records).
- 3.3.18. The poor semi-improved grassland fields, hedgerows and areas of scrub within the additional land provide suitable foraging habitat for brown hare. However, the additional land is open and does not provide shelter, likely decreasing the suitability for brown hare to be present. The roads to the west and south of the additional land act as partial barriers, as do the boundary fences.

HEDGEHOG

- 3.3.19. The desk study returned thirty-six records of hedgehog *Erinaceus europaeus* within 2km of the additional land. Of these records, only eight contained an accurate grid reference (above four digits). The data search confirmed the presence of hedgehog within 100m north east of the additional land (at Junction 67 of the A1), with records largely obtained in or near urban areas.
- 3.3.20. The additional land included grassland and scrub, suitable to support foraging and sheltering hedgehog.



4. DISCUSSION AND RECOMMENDATIONS

- 4.1.1. This section considers the potential for impacts to designated sites, legally protected species, notable species and notable habitats as a consequence of the Scheme construction and operation with respect to the additional land.
- 4.1.2. Where further surveys or detailed assessment of potential impacts are required in order to design suitable mitigation, this is identified. A full impact assessment will be detailed within a separate addendum impact assessment report to verify the impact assessment and mitigation presented in **Chapter 8: Biodiversity** of the ES [APP-029].

4.1. NON-STATUTORY DESIGNATED SITES

- 4.1.1. Lamesley Meadows LWS is located within close proximity (less than 100m) to the additional land. Also, the River Team Extension LWS is located less than 200m to the west of the additional land and is connected via the culvert identified during the survey.
- 4.1.2. There will be no direct loss of habitat within either of the LWS designations. However, there is the potential for indirect effects by way of the hydrological connection.

4.2. HABITATS

- 4.2.1. None of the habitats recorded within the additional land are afforded legal protection, although they are considered of ecological value. Hedgerows are identified as HPI in accordance with Section 41 of the NERC Act 2006. Under Section 40 of this legislation, every public body (including planning authorities) must, '*in exercising its functions, have regard so far as is consistent with the proper exercise of those functions, to the purpose of conserving biodiversity*'.
- 4.2.2. The Scheme may result in the loss and/or damage of the hedgerow habitat type. Whilst the hedgerow identified within the additional land was species-poor and would not qualify as important under the Hedgerows Regulations, as a HPI, compensatory habitat should be provided.

4.3. PROTECTED AND NOTABLE SPECIES

4.3.1. The results of the desk study, Phase 1 habitat Survey and protected species assessment highlighted the potential presence of protected species or species of conservation concern within the additional land, or within the immediate surroundings of the additional land. These include amphibians, bats, birds, badger, reptiles, brown hare and hedgehog. The legal protection afforded to these species is outlined below and, where appropriate, the requirement for further survey is identified.



AMPHIBIANS

- 4.3.2. Great crested newts are protected from killing, injury and disturbance⁷ and their places of rest or shelter (occupied habitat) protected from damage or destruction under the Habitats Regulations. Protection is also afforded under the WCA 1981 (as amended) with respect to disturbance of individuals occupying places of rest or shelter and obstruction of access to these. Activities that would otherwise constitute an offence under this legislation may be licensed by Natural England for certain purposes.
- 4.3.3. Great crested newt and common toad are also listed as SPI in accordance with Section 41 of the NERC Act 2006. Public bodies have an obligation under Section 40 to have regard for these species when carrying out their functions.
- 4.3.4. The waterbodies present on additional land were considered unlikely to support amphibians due to their ephemeral nature. In addition, there were no suitable waterbodies within 500m of the additional land. As such, no further survey is recommended.

BATS

- 4.3.5. All species of bats native to the UK are protected from killing, injury and disturbance⁸ and their roosts protected from damage or destruction under the Habitats Regulations. Protection is also afforded under the WCA 1981 (as amended) with respect to disturbance of individuals occupying places of rest or shelter and obstruction of access to these. Activities that would otherwise constitute an offence under this legislation may be licensed by Natural England for certain purposes.
- 4.3.6. Certain species of bats, including noctule, brown long-eared bat and soprano pipistrelle bat are also listed as SPI for the conservation of biodiversity in England in accordance with Section 41 of the NERC 2006. Section 40 obliges public bodies (including local planning authorities) to have regard for the conservation of biodiversity (including SPI) when discharging their duties (including determining planning applications).
- 4.3.7. The buildings assessed during the PBRA were found to have low or negligible roosting suitability. It was not possible to assess all buildings/trees within the PBRA Survey Area due to access restrictions. However, due to the scale of the proposed works and their distance from these buildings it is considered unlikely that the Scheme would impact bats that might be roosting there. Buildings assessed as having low roosting suitability (B1 & B2) are all

⁷ Disturbance is defined within the Habitats Regulations as that which is likely to impair a species ability to survive, breed or reproduce, hibernate or migrate or to significantly affect the local distribution or abundance of the species.

⁸ Disturbance is defined within the Habitats Regulations as that which is likely to impair a species ability to survive, breed or reproduce, hibernate or migrate or to significantly affect the local distribution or abundance of the species.



located outside of the Order Limits and will therefore be retained. The building assessed as having negligible roosting suitability (B3) will be lost, but this will not impact roosting bats.

- 4.3.8. Trees identified as having potential suitability for roosting bats within 50m of the additional land were all outside the Order Limits, and therefore all trees with potential suitability will be retained. As all the species recorded within the desk study are common and widespread throughout England, it is considered that any features identified, including the bat box, would support a roost of common and widespread species. Therefore, no further survey is required.
- 4.3.9. Loss of the hedgerow (approximately 150m in length) within the additional land would mean the loss of foraging/commuting habitat for bats. However, as the hedgerow is only connected to linear habitat features at its southern end and is separated from suitable foraging/commuting habitat along the eastern boundary of the additional land by at least 40m, fragmentation of foraging or commuting routes is not anticipated. As such, further survey in relation to bat foraging/commuting activity is not required.

BADGER

- 4.3.10. The Protection of Badgers Act 1992 makes it illegal to wilfully kill, injure or take any badger, or attempt to do so. It also makes it an offence to intentionally or recklessly damage, destroy or obstruct access to any part of a badger sett. Activities that would otherwise constitute an offence under this legislation may be licensed by Natural England for certain purposes.
- 4.3.11. There were no signs of badger or their setts on additional land during the walkover survey. In addition, badgers were not recorded within the wider Order Limits during surveys in 2018, as detailed in **Chapter 8: Biodiversity**. Therefore, no further survey is required.

BIRDS

- 4.3.12. The Habitats Regulations Part 1 Regulation 10(2) & (3) state that local authorities 'must take such steps in the exercise of their functions as they consider appropriate to contribute to...the preservation, maintenance and re-establishment of a sufficient diversity and area of habitat for wild birds in the UK including by means of the upkeep, management and creation of such habitat...'. The legislation continues to state that economic and recreation requirements must be taken into consideration in considering which measures are appropriate.
- 4.3.13. Under the WCA 1981 (as amended) all wild birds are protected from killing and injury, and their nests and eggs protected from taking, damage and destruction whilst in use. Additional protection is extended to species listed under Schedule 1 of the Act, meaning it is also an offence to disturb these species at or near the nest, or whilst they have dependent young.
- 4.3.14. The loss of habitat within the additional land would result in the loss of foraging and nesting habitat for wintering and breeding bird populations within the wider area. Further survey is recommended to verify the assessment of the additional land already completed within Chapter 5: Biodiversity of the ES Addendum: Additional Land [REP4-058], with respect to breeding and wintering birds (as detailed in Table 4-1 below). The findings of these surveys



will be used to verify the mitigation documented in **Chapter 8: Biodiversity** of the ES [**APP-029**].

REPTILES

- 4.3.15. Native widespread reptile species (common or viviparous lizard *Zootoca vivipara*, adder *Vipera berus*, grass snake *Natrix helvetica* and slow worm *Anguis fragilis*) are partially protected under Schedule 5 of the WCA 1981 (as amended). This includes protection from killing and injury.
- 4.3.16. All reptile species are also listed as SPI in accordance with Section 41 of the NERC Act 2006. Public bodies have an obligation under Section 40 to have regard for these species when carrying out their functions.
- 4.3.17. As reptiles are considered to be absent (based on the 2017 survey), no further survey is required.

BROWN HARE AND HEDGEHOG

- 4.3.18. Both brown hare and hedgehog are SPI in accordance with Section 41 of the NERC Act 2006. Public bodies have an obligation under Section 40 to have regard for these species when carrying out their functions.
- 4.3.19. Both species have undergone significant decline due to habitat loss and fragmentation. The additional land has the potential to support both species (less so for brown hare). Targeted surveys are not considered necessary in order to inform ecological impact assessment.



Table 4-1 - Key Ecological Constraints and Further Survey Requirements

| Ecological Receptor | Potential Constraints | Further Survey Requirements | Seasonal Constraints |
|---------------------|---|--|---|
| Birds | Loss of bird nesting habitat and habitats (including trees and hedgerow). Disturbance to and loss of migratory and wintering bird habitat. | Breeding bird surveys (BBS) to establish bird populations within one section of the additional land (the grassland field). Wintering bird surveys (currently ongoing) to establish presence and usage of the additional land during these times and therefore potential impacts of the Scheme. The survey work followed a standard method based on the British Trust for Ornithology's (BTO's) Common Bird Census (CBC), as summarised by Bibby et al. (2000). | BBS can be conducted between the period March and August. Wintering bird surveys can be conducted between October and March. |



5. CONCLUSIONS

- 5.1.1. A range of habitats were recorded within the additional land, including poor semi-improved grassland (grazed pasture), scattered trees, scattered scrub, standing water and boundary features (including hedgerows, fences and tree lines). The habitats present both within and adjacent to the additional land were suitable to support roosting, foraging and commuting bats and breeding and wintering birds. Lamesley Meadows LWS and the River Team Extension LWS are located within 200m of the additional land and hydrologically linked via a culvert beneath Lamesley Road.
- 5.1.2. To ensure compliance with legislation and planning policy and to inform an ecological impact assessment, further survey effort was recommended in relation to breeding birds and wintering birds, with the latter already completed. These surveys are outlined in **Table 4-1** above and the findings will be presented in separate reports.
- 5.1.3. The construction and operational impacts of the Scheme with respect to the additional land have been fully assessed and presented within the ES Addendum: Additional Land (**REP4-058**), which also verifies the suitability of proposed mitigation and compensation detailed in **Chapter 8: Biodiversity** of the ES [APP-029].
- 5.1.4. Following these surveys, the impact assessment within the ES Addendum: Additional Land (**REP4-058**) is considered to remain valid.



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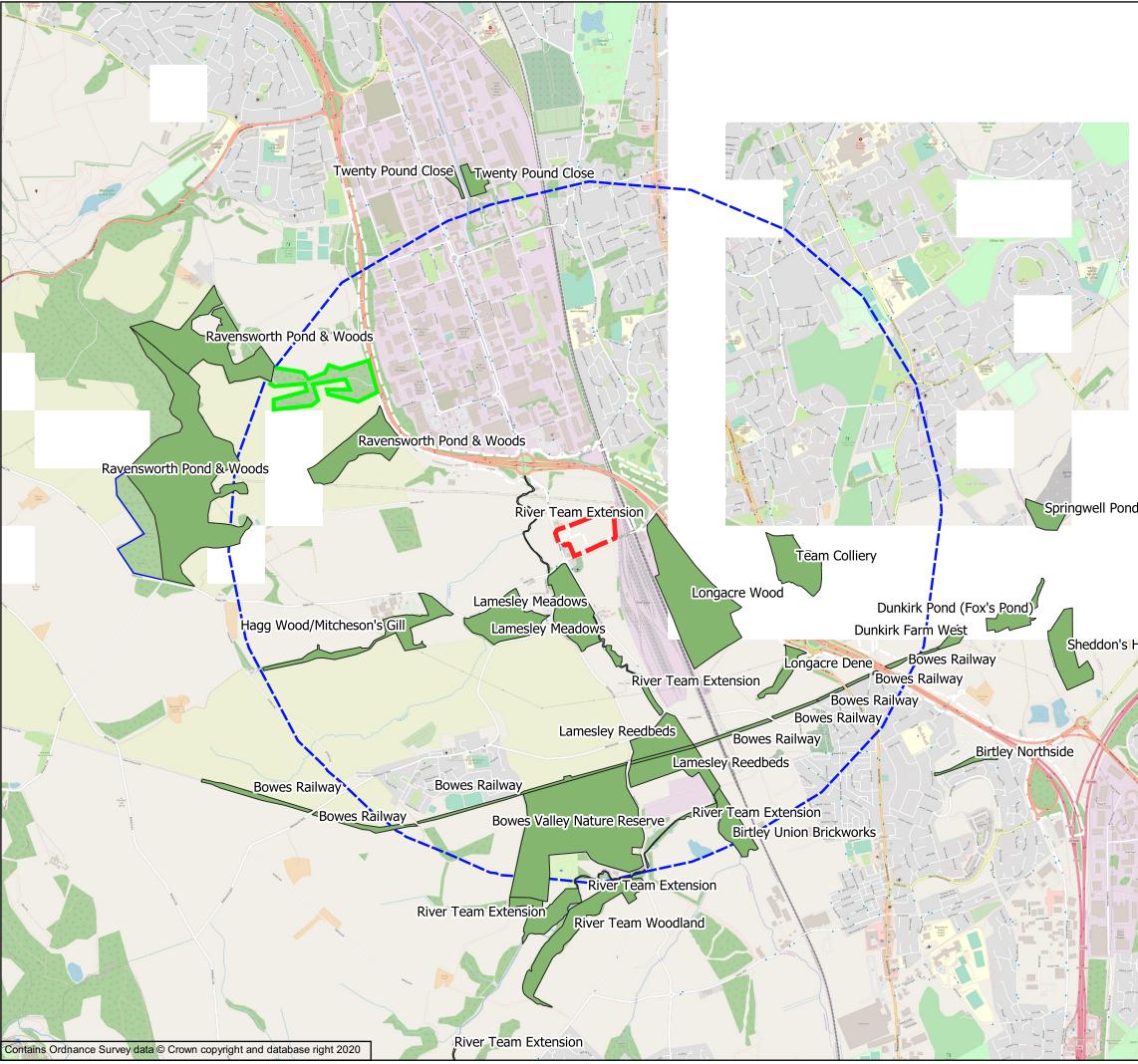
Figure 1 - Phase 1 Habitat Survey



| | Key | | | | | | | |
|-----------|---|---|------------------|------------------|----------------|----|---------------|-------|
| | Survey Area | | | | | | | |
| | Scheme Footprint | | | | | | | |
| | | Broadleaved Parkland/Scattered Trees | | | | | | |
| Buildings | | | | | | | | |
| | Other Tall Herb and Fern - Ruderal | | | | | | | |
| | ы | Poor Semi-Improved Grassland | | | | | | |
| • | | | | | | | | |
| | | Scrub - Scattered | | | | | | |
| | | | ding Water - | Oligotrophic | | | | |
| | ++++++ | HHHH Fence | | | | | | |
| | | Intact Hedge - Species-Poor | | | | | | |
| | | - Wall | | | | | | |
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Figure 2 – Non-statutory sites within 2km



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|-----------|---|--|--|--|--|--|
| \square | Site | | | | | |
| | Local Wildlife Sites | | | | | |
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Appendix C-1

RELEVANT LEGISLATION AND PLANNING POLICY

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ENGLAND & WALES LEGISLATION AND POLICY CONTEXT

This report has been compiled with reference to relevant wildlife legislation, planning policy and the UK Biodiversity Framework. An overview and context of relevant legislation is provided, with the relevant protection each species groups or species receives summarised in Table 1.

The Wildlife and Countryside Act 1981, (as amended) (WCA)

Protected birds, animals and plants are listed under Schedules 1, 5, 8 and 9 respectively of the WCA, a description of these Schedules and their meaning is provided below.

Under the WCA (England and Wales) all birds, their nests and eggs (with exception of species listed under Schedule 2) are protected by the WCA. It is an offence to:

- Intentionally kill, injure, or take any wild bird,
- Take or destroy an egg of any wild bird.
- Damage or destroy the nest of any wild bird (whilst being built, or in use). Under the WCA the clearance of vegetation within the additional land boundary, or immediately adjacent to the additional land during the bird nesting season could result in an offence occurring by the disruption or destruction of nest sites. The bird breeding season can be taken to occur between March - August inclusive, although is subject to variations based on species, geographical and seasonal factors.

Schedule 1

Birds listed under Schedule 1 of the WCA⁹ are afforded additional protection with regard to intentional or reckless disturbance whilst nest-building, or at a nest containing eggs or young, or disturb the dependent young of such a bird.

Schedule 5

Species listed in Schedule 5 can either be fully protected or be partially protected under Section 9, which makes it unlawful to intentionally:

- Part 1: kill, injure or take;
- Part 2: possess or control (live or dead animal, part or derivative);
- Part 4 (a): damage or destruct any structure used for shelter or protection;
- Part 4 (b): disturb them in a place of shelter or protection;
- Part 4 (c): obstruct access to place of shelter or protection;
- Part 5 (a): sell, offer for sale, possess or transport for the purpose of sale (live or dead animal, part or derivative);
- Part 5 (b): advertise for buying or selling.

Schedule 8

The Act makes it an offence (subject to exceptions) to pick, uproot, trade in, or possess (for the purposes of trade) any wild plant listed in Schedule 8, and prohibits the unauthorised intentional uprooting of such plants.

Schedule 9

Invasive species listed under Schedule 9 are prohibited from release into the wild and the Act prohibits planting or "causing to grow" in the wild of any plant species listed in Schedule 9. It should be noted that certain bird species listed on Schedule 1 of the WCA are also listed on Schedule 9 to prevent release of non-native and captive individuals, this includes barn owl, red kite, goshawk and corncrake.



⁹ To view the current list of Schedule 1 listed birds visit: http://www.legislation.gov.uk/ukpga/1981/69/schedule/1 [Accessed 15/02/2020].

Countryside Rights of Way Act 2000 (CRoW Act)

The CRoW Act has amended the WCA in England and Wales strengthening the protection afforded to Sites of Special Scientific Interest (SSSI) and the legal protection for threatened species. It adds the word 'reckless' to the wording of the offences listed under Section 9(4) of the WCA. This alteration makes it an offence to recklessly commit an offence, where previously an offence had to be intentional to result in a breach of legislation.

Natural Environment and Rural Communities (NERC) Act 2006

Species and Habitats of Principal Importance in England and Wales are listed under Section 41 and Section 42 respectively of the NERC Act. The Section 41 and 42 lists detail species that are of principal importance for the conservation of biodiversity in England and Wales, and should be used to guide decision-makers such as local and regional authorities when implementing their duty to have regard for the conservation of biodiversity in the exercise of their normal functions – as required under Section 40 of the NERC Act 2006. The Protection of Badgers Act (1992)

It is an offence to wilfully take, kill, injure, possess or ill-treat a badger. Under the Act their setts are protected against intentional or reckless interference. Sett interference includes damaging or destroying a sett, obstructing access to any part of the sett, or disturbance of a badger whilst it is occupying a sett. The Act defines a badger sett as 'any structure or place, which displays signs indicating the current use by a badger' and Natural England (NE) takes this definition to include seasonally used setts that are not occupied but that show sign of recent use by badgers (Natural England, 2009¹⁰).

If impacts to badgers or their setts are unavoidable then authorised sett disturbance requires a licence.

The UK Post-2010 Biodiversity Framework (2011-2020) (JNCC and DEFRA, 2012)

This Framework lists the UK's most threatened species and habitats and sets out targets and objectives for their management and recovery. The UK Biodiversity Action Plan (BAP) process is delivered nationally, regionally and locally and should be used as a guide for decision-makers to have regards for the targets set by the framework and the goals they aim to achieve. The UK BAP has now been replaced by the UK Post-2010 Biodiversity Framework, however, it contains useful information on how to characterise important species assemblages and habitats which is still relevant (UK Post-2010) Biodiversity Framework, 2012¹¹).

The Conservation of Habitats and Species Regulations 2017 (as amended)

The Conservation of Habitats and Species Regulations 2017 (as amended) consolidate the Conservation of Habitats and Species Regulations 2010 with subsequent amendments. The Regulations transpose Council Directive 92/43/EEC, on the conservation of natural habitats and of wild fauna and flora (EC Habitats Directive), into national law. They also transpose elements of the EU Wild Birds Directive in England and Wales. The Regulations came into force on 30th November 2017, and extend to England and Wales (including the adjacent territorial sea) and to a limited extent in Scotland (reserved matters) and Northern Ireland (excepted matters). In Scotland, the Habitats Directive is transposed through a combination of the Habitats Regulations 2010 (in relation to reserved matters) and the Conservation (Natural Habitats &c.) Regulations 1994. The Conservation (Natural Habitats, &c) Regulations (Northern Ireland) 1995 (as amended) transpose the Habitats Directive in relation to Northern Ireland.

All species listed under Annex IV of the Habitats Directive require strict protection and are known as European Protected Species (EPS). Under Regulation 42 of the Habitats Regulations it is unlawful to:

- Deliberately kill, capture or disturb;
- Deliberately take or destroy the eggs of; and
- Damage or destroy the breeding site/resting place of any species protected under this legislation.



¹⁰ Natural England, June 2009, Protection of Badgers Act 1992 (as amended), Guidance on 'Current Use' in the definition of a Badger Sett WMLG17, Natural England, Peterborough

¹¹ JNCC and Defra (on behalf of the Four Countries' Biodiversity Group), July 2012, UK Post-2010 Biodiversity Framework, Available from: <u>http://jncc.defra.gov.uk/pdf/UK Post2010 Bio-Fwork.pdf</u> [Accessed 15/02/2020].

If the Ecologist determines that impacts to an EPS are unavoidable then the works may need to be carried out under a site specific mitigation licence from Natural England (NE) or Natural Resources Wales (NRW). Low Impact Class licences are also available in both England and Wales for bats and great crested newts. This enables Registered Low Impact Consultants to undertake certain low impact activities reducing the EPS application paperwork and process length.

Certain EPS are also listed under Annex II of the Habitats Directive and are afforded protection by the establishment of core areas of habitat known as Special Areas of Conservation. This means these species are a relevant consideration in a Habitats Regulations Assessment (HRA).

The Birds Directive seeks to maintain populations of all wild bird species across their natural range (Article 2). All bird species listed under Annex I¹² of the Birds Directive are rare or vulnerable and afforded protection by the classification of Special Protection Areas (SPAs), these are also designated under all regularly occurring migratory species, with regard to the protection of wetlands of international importance (Article 4). This means these bird species and communities are a relevant consideration in HRA.

¹² To view birds listed under Annex I visit: <u>http://ec.europa.eu/environment/nature/conservation/wildbirds/threatened/index_en.htm</u> [accessed 15/02/2020]



| Table A:1: Key Sp | pecies and Nat | ional Wildlife Le | egislation, Polic | y and Biodiver | sity Framework Applicable in Engla | nd & Wales | | |
|-------------------|----------------|---------------------------|--|--|---|---|---|-----------------|
| Species | Legislation, F | Planning Policy a | nd UK Biodivers | ity Framework | | | | |
| | | | The Conservation of Habitats and Species Regulations 2017 (as amended) (Habitats Regulations) - Regulation 41 | Natural Environment and Rural Communities (NERC) Act 2006 | The Protection of Badgers Act 1992 | The UK Post-2010 Biodiversity Framework 2011-2020 (JNCC and DEFRA, 2012) | | |
| | Schedule1 | Schedule 5 | Schedule 8 | Schedule 9 | European Protected Species (Annex IV of the EC Habitats Directive), | | | |
| Badger | | | | | | | Υ | |
| Bats | | Y ¹³ (part) | | | Y ¹⁴ | Y ¹⁵ | | Y ¹⁶ |
| Hazel Dormouse | | Y 5(part) | | | Y | Y | | Y |
| Otter | | Y 5(part) | | | Y | Y | | Y |
| Water vole | | Y ¹⁷ (full) | | | | Y | | Y |

¹³ These species are partially protected under section 9(4)(b), (4)(c) and (5).

¹⁴ Only Barbastelle (Barbastella barbastellus), Bechstein's bat (Myotis bechsteinii), greater horseshoe bat (Rhinolophus ferrumequinum) and lesser horseshoe bat (Rhinolophus hipposideros) are listed on Annex II of the Habitats Directive.

¹⁵ Greater horseshoe bat, lesser horseshoe bat, Bechstein's bat, noctule (*Nyctalus noctula*), soprano pipistrelle (*Pipistrellus pygmaeus*), brown long-eared bat (*Plecotus auritus*) and barbastelle are listed as Species of Principal Importance in England with the addition of common pipistrelle (*Pipistrellus pipistrellus*) in Wales listed under

Section 7 of the Environment (Wales) Act (2016) <u>http://www.legislation.gov.uk/ukpga/2006/16/contents</u>.

¹⁶ Barbastelle bat, Bechstein's bat, noctule, soprano pipistrelle, brown long-eared bat, greater horseshoe bat, lesser horseshoe bat are listed as UK BAP species of bat.

¹⁷ Class Licences are available to Registered Consultants to intentionally disturb, damage or destroy water vole burrows or to displace water voles from their burrows in relation to a development proposal where the licensed action provides a conservation benefit for water voles. Certain displacement operations may be carried out under a Class licence by a registered person in England, however in Wales all displacement operations must be carried out under a site specific licence.



| Table A:1: Key Species and National Wildlife Legislation, Policy and Biodiversity Framework Applicable in England & Wales | | | | | | |
|---|------------------------------|-----------------|-----------------|-----------------|--|-----------------|
| Birds Y | | Y ¹⁸ | | Y ¹⁹ | | Y ²⁰ |
| Reptiles | Y ²¹ (part) | Y٩ | Υ ²² | Y ²³ | | Y ²⁴ |
| Amphibians | Y ²⁵ (part) | Y 26 | Y 27,28 | Y ²⁹ | | |
| White-clawed Crayfish | Y ³⁰ (partial) | | Y ³¹ | Υ | | Υ |

²³ All 6 reptile species are listed as Species of Principal Importance in England listed under Section 41 of the NERC Act 2006 and 5 species, excluding smooth snake, listed under Section 7 of the Environment (Wales) Act (2016) http://www.legislation.gov.uk/ukpga/2006/16/contents.

²⁷ Great crested newt, Natterjack toad and Pool frog are the only amphibians to be designated European Protected Species.

- ²⁸ Great crested newt is the only amphibian listed on Annex II of the Habitats Directive.
- ²⁹ Great crested newt, Natterjack toad and Common toad are listed as Species of Principal Importance in England in Section 41 of the NERC Act 2006 http://www.legislation.gov.uk/ukpga/2006/16/contents.
- ³⁰ Under the Wildlife and Countryside Act it is illegal to take or sell white clawed crayfish under the WCA. A licence is required to survey (hand net or trap) for the species. To undertake work within WCC inhabited rivers a Class Licence maybe issued by the relevant authority to move WCC away from harm prior to works. Although WCC are not protected from killing or injury Natural England state in their Class licence that due to declining numbers all efforts should be made to conserve the species.

31 White clawed crayfish are listed under Annex II and V of the Habitats Directive.



¹⁸ To view plants and animals listed on Schedule 9 Part 1 visit <u>http://www.legislation.gov.uk/ukpga/1981/69/schedule/9</u> [accessed 6 April 2017]

¹⁹ There are 49 species of birds listed as Species of Principal Importance in England in Section 41 of the NERC Act 2006 and 51 species in Wales under Section 7 of the Environment (Wales) Act (2016) http://www.legislation.gov.uk/ukpga/2006/16/contents.

²⁰ To view the current list of UK BAP priority birds visit: <u>http://jncc.defra.gov.uk/page-5163</u> [Accessed 15/02/2020].

²¹ The four common reptile species, Adder (Vipera berus), Grass snake (Natrix natrix), Common lizard (Zootoca vivipara) and Slow worm (Anguis fragilis) are offered partial protection under section 9(5). The rarer UK reptile species (Smooth snake (Coronella austriaca)) and Sand lizard (Lacerta agilis)) are partially protected under section 9(4)(b) and (c) and (5).

²² Smooth snake (Coronella austriaca) and Sand lizard (Lacerta agilis) are the only reptiles to be designated as European Protected Species.

²⁴ To view the current list of UK BAP priority herptile species visit: <u>http://jncc.defra.gov.uk/page-5166</u> [Accessed 15/02/2020].

²⁵ The four common reptile species, Adder (*Vipera berus*), Grass snake (*Natrix natrix*), Common lizard (*Zootoca vivipara*) and Slow worm (*Anguis fragilis*) are offered partial protection under section 9(5). The rarer UK reptile species (Smooth snake (*Coronella austriaca*) and Sand lizard (Lacerta agilis)) are partially protected under section 9(4)(b) and (c) and (5).

²⁶ Common frog (Rana temporaria), Common toad (Bufo bufo), Smooth newt (Lissotriton vulgaris) and Palmate newt (Lissotriton helveticus) are offered partial protection under section 9(5). Great crested newt (Triturus cristatus) and Natterjack toad (Epidalea calamita) are offered partial protection under section 9(4)(b) and (c) and (5). Pool frog (Pelophylax lessonae) is offered partial protection under section 9(4)(b) and (c)(1) only and with respect to England only.

| Table A:1: Key Species and National Wildlife Legislation, Policy and Biodiversity Framework Applicable in England & Wales | | | | | | | |
|---|--------------------------------|-----------------|----|------------|-----------------|--|-----------------|
| Invertebrates | Y ³² (full/part) | | Y | Y 33,34 | Y ³⁵ | | Y ³⁶ |
| Fish | Y ³⁷ (full/part) | | Y9 | Y 38,39 | Y ⁴⁰ | | Y ⁴¹ |
| Plants | | Y ⁴² | Y9 | Y 43,44 | Y 45 | | Y 46 |

³² To view the current list of invertebrates that are protected under this Act either in part or full visit: <u>http://www.legislation.gov.uk/ukpga/1981/69/schedule/5</u> [Accessed 15/02/2020].

³³ The Large blue butterfly (*Maculinea arion*), Fisher's estuarine moth (*Gortyna borelii lunata*) and Lesser whirlpool ram's-horn snail (*Anisus vorticulus*) are the only invertebrates to be designated European Protected Species.

³⁴ There are currently twelve invertebrates listed in Annex II of the Habitats Directive; White-clawed crayfish (*Austropotamobius pallipes*), Southern damselfly (*Coenagrion mercuriale*), Marsh fritillary butterfly (*Eurodryas aurinia*), Violet click beetle (*Limoniscus violaceus*), Stag beetle (*Lucanus cervus*), Freshwater pearl mussel (Margaritifera margaritifera), Narrow-mouthed whorl snail (*Vertigo angustior*), Round-mouthed whorl snail (*Vertigo genesii*), Geyer's whorl snail (*Vertigo geyeri*), Desmoulin's whorl snail (*Vertigo moulinsiana*), Lesser whirlpool ram's-horn snail (*Anisus vorticulus*) and Fisher's estuarine moth (*Gortyna borelii lunata*).

³⁵ There are currently 379 invertebrate species (not including marine species) listed as Species of Principal Importance in England

http://www.google.co.uk/url?sa=t&rct=j&q=&esrc=s&source=web&cd=4&ved=0ahUKEwivvu7J9trSAhXiCsAKHX4TBGcQFggvMAM&url=http%3A%2F%2Fpublications.naturalengland.org.uk%2Ffile%2F6518755878240256&usg=AFQjCNEpiUWYuOqhVcfSDvi_3iK2TJytfQ listed under Section 41 of the NERC Act 2006 [Accessed 15/02/2020]

³⁶ To view the current list of UK BAP priority invertebrates visit: <u>http://jncc.defra.gov.uk/page-5169</u> [Accessed 15/02/2020].

³⁷ To view the current list of fish either part or fully protected under the Act visit: <u>http://www.legislation.gov.uk/ukpga/1981/69/schedule/5</u> [Accessed 15/02/2020].

³⁸ Sturgeon (Acipenser sturio) is the only fish to be designated a European Protected Species.

³⁹ There are eight fish species listed on Annex II of the Habitats Directive. To view the current list visit: <u>http://jncc.defra.gov.uk/page-1523</u> [Accessed 15/02/2020].

⁴⁰ There are 35 species of fish listed as Species of Principal Importance in England listed under Section 41 of the NERC Act 2006 and 10 species in Wales listed under Section 7 of the Environment (Wales) Act 2016.

⁴¹ To view the current list of UK BAP priority fish visit: <u>http://jncc.defra.gov.uk/page-5164</u> [Accessed 15/02/2020].

⁴² To view the current list of Schedule 8 listed plants visit: <u>http://www.legislation.gov.uk/ukpga/1981/69/schedule/8</u> [Accessed 15/02/2020].

⁴³ There are nine plant species designated as European Protected Species. To view the current list visit: <u>http://www.legislation.gov.uk/uksi/2010/490/schedule/5/made</u> [Accessed 15/02/2020].

⁴⁴ To view the current list of plant species on Annex II of the Habitats Directive visit: <u>http://jncc.defra.gov.uk/page-1523</u> [Accessed 15/02/2020].

⁴⁵ There are currently 152 vascular plants listed as Species of Principal Importance in England listed under Section 41 of the NERC Act 2006 and 77 species in Wales listed under Section 7 of the Environment (Wales) Act 2016.³¹ To view the current list of UK BAP priority plants visit: <u>http://jncc.defra.gov.uk/page-5171</u> and <u>http://jncc.defra.gov.uk/page-5168</u> [Accessed 15/02/2020].

⁴⁶ To view the current list of UK BAP priority plants visit: <u>http://jncc.defra.gov.uk/page-5171</u> and <u>http://jncc.defra.gov.uk/page-5168</u> [Accessed 15/02/2020].



SUMMARY OF ECOLOGICAL DESK STUDY DATA

SD)



Table 2 - Protected and notable species (excluding birds) for which records have been identified within 2 km of the additional land

| Species common name | Species Latin name | No. of records | Distance and orientation from Order Limits | Legal / Conservation Status ⁴⁷ |
|---------------------------|---------------------------|-------------------|--|--|
| Common Toad | Bufo bufo | 6 | 250m south | BAP 2007, Bern A3, England NERC S.41, WACA Sch5 Sect 9.5a |
| Palmate Newt | Lissotriton helveticus | 4 | 500m north east | Bern A3, WACA Sch5 Sect 9.5a |
| Smooth Newt | Lissotriton vulgaris | 6 | 500m north east | Bern A3, WACA Sch5 Sect 9.5a |
| Common Frog | Rana temporaria | 6 | 250m south | Bern A3, HabDir A5, WACA Sch5 Sect 9.5a |
| Great Crested Newt | Triturus cristatus | 14 | 1.1km south | BAP 2007, Bern A2, Durham BAP, England NERC S.41, FEP 007, HabDir A2, HabDir A4, HabReg Sch2, Northumberland BAP, WACA Sch5 Sect 9.4b, WACA Sch5 Sect 9.5a, WACA Sch5 Sect 9.4c, |

⁴⁷ HabReg = Conservation of Habitats and Species Regulations (2017), HabDir = Habitats Directive (Council Directive 92/43/EEC), WACA = Wildlife and Countryside Act (1981), NERC = Schedule 41 Natural Environment and Rural Communities Act (2006), FEP = Farm Environment Plan Guidance 001, LBAP = Local Biodiversity Action Plan, RD1 (UK) = UK Red Data Book listing based on IUCN guidelines, RD2 (UK) = UK Red Data Book listing not based on IUCN guidelines (Nationally Rare and Scarce).



| | | , | | |
|--------------------------|---------------------------|---|--------------------|--|
| Heather | Calluna vulgaris | 1 | 700m north east | RedList GB post 2001 NT ⁴⁸ |
| Harebell | Campanula rotundifolia | 1 | 700m north east | RedList GB post 2001 NT |
| Scots Pine | Pinus sylvestris | 1 | 800m west | IUCN Nationally Scarce but excluded from Red List |
| Japanese Knotweed | Reynoutria japonica | 7 | 20m north | WCA 1981 (Sch 9 Sct 14 part 2), EPA 1990 |
| Mat-Grass | Nardus stricta | 1 | 600m north east | RedList GB post2001 NT |
| Tormentil | Potentilla erecta | 1 | 600m north east | RedList GB post2001 NT |
| Lesser Spearwort | Ranunculus flammula | 1 | 600m north east | RedList GB post2001 VU ⁴⁹ |
| Goldenrod | Solidago virgaurea | 1 | 600m north east | RedList GB post2001 NT |
| Large- Leaved Lime | Tilia platyphyllos | 1 | 1.5km east | FEP 001, IUCN Nationally Scarce but excluded from Red List |
| Cup Lichen | Cladonia | 1 | 500m north | Habitat Directive – A5 |
| Flat-topped Bog-moss | Sphagnum fallax | 1 | 1.3km north | Habitat Directive – A5 |
| European Water Vole | Arvicola amphibius | 3 | 100m north | BAP-2007, Durham BAP |

⁴⁸ NT = Near Threatened

⁴⁹ VU = Vulnerable



| Roe Deer | Capreolus capreolus | 11 | 700 south west | Bern-A3 |
|------------------------------|------------------------------------|----|---------------------|--|
| West European Hedgehog | Erinaceus europaeus | 36 | 150m south west | BAP-2007, Bern-A3, Durham BAP, England NERC S.41, Northumberland BAP |
| Brown Hare | Lepus europaeus | 9 | 700m south west | BAP 2007, Durham BAP, England NERC S.41, FEP 007 tab2 |
| European Otter | Lutra lutra | 26 | 50m west | BAP-2007, Bern A2, Durham BAP, ECCITES A, England NERC S.41, FEP 007 tab2, HabDir A2, HabDir A4, HabReg Sch2, Northumberland BAP, RedList Global post 2001 NT, WACA Sch5 sect9.4b, WACA Sch5 sect9.5a, WACA Sch5Sect9.4c |
| Eurasian Badger | Meles meles | 2 | 1.4km south west | Bern A3, Durham BAP, Protection of Badgers Act 1992 |
| Stoat | Mustela erminea | 5 | 10m north | Bern A3 |
| Weasel | Mustela nivalis | 5 | 900m south | Bern A3 |
| Feral Ferret | Mustela putorius subsp. furo | 1 | 1.7km south | BAP 2007, Bern A3, Durham BAP, England NERC S.41, HabDir A5, HabReg Sch4 |
| American Mink | Mustela vison | 3 | 700m south west | WACA Sch 9 Part 1 |
| Eurasian Water Shrew | Neomys fodiens | 1 | 1km south | Bern A3, Durham BAP |



| Common Pipistrelle | Pipistrellus pipistrellus | 21 | 1km west | CMS ⁵⁰ A2, CMS EUROBATS-A1, HabReg Sch2, WACA Sch5 sect9.1(kill/injuring), WACA Sch5 sect9.4b, WACA Sch5 sect9.5a, WACA Sch5 Sect9.4c |
|-----------------------------|------------------------------|----|-------------|---|
| Soprano Pipistrelle | Pipistrellus pygmaeus | 5 | 1km west | BAP 2007, Bern A2, CMS A2, CMS EUROBATS-A1, Durham BAP, England NERC S.41, HabDir A4, HabReg Sch2, Northumberland BAP, WACA Schsect9.1(kill/injuring), WACA Sch5 sect9.4b, WACA Sch5 sect9.5a, WACA Sch5Sect 9.4c |
| Noctule Bat | Nyctalus noctula | 2 | 2.2km south | BAP 2007, Bern A2, CMS A2, CMS EUROBATS A1, Durham BAP, England NERC S.41, FEP 007 tab2, HabDir A4, HabReg Sch2, Northumberland BAP, WACA Sch5 sect9.1(kill/injuring), WACA Sch5 sect9.4b, WACA-Sch5 sect9.5a, WACA Sch5 Sect 9.4c |
| Eastern Grey Squirrel | Sciurus carolinensis | 21 | 300m east | WACA Sch 9 Part 1 |

⁵⁰ Secretariat of the Convention on Migratory Species



| Eurasian Red Squirrel | Sciurus vulgaris | 1 | 1.4km north | BAP 2007, Bern A3, Durham BAP, England NERC S.41, FEP 007 tab2, Northumberland BAP, WACA Sch5 sect9.2, WACA Sch5 sect9.4.a, WACA Sch5 sect9.4b, WACA Sch5 sect9.5a, WACA Sch5 Sect9.4c |
|-----------------------------|---------------------|---|-------------|---|
| Eurasian Common Shrew | Sorex araneus | 3 | 400m north | Bern A3 |

Table 3 - Protected and notable birds for which records have been identifiedwithin 2 km from the additional land

| Species common name | Species Latin name | No. of record s | Distance and orientatio n from Order Limits | Legal / Conservation Status 51 |
|---------------------------|-----------------------|-----------------------|--|---|
| Sparrowhaw k | Accipiter nisus | 70 | 1.3km south | CMS A2, ECCITES-A |
| Common Sandpiper | Actitis hypoleucos | 6 | 1.3km south | CMS A2, CMS AEWA ⁵² A2 |
| Skylark | Alauda arvensis | 5 | 1.3km south | BirdsDir A2.2, Durham BAP, England NERC S.41, FEP 007 tab2, Northumberland BAP |

⁵¹ HabReg = Conservation of Habitats and Species Regulations (2017), W&CA = Wildlife and Countryside Act (1981), NERC = Schedule 41 Natural Environment and Rural Communities Act (2006), LBAP = Local Biodiversity Action Plan, BoCC Red = Birds of Conservation Concern Red List, BoCC Amber = Birds of Conservation Amber List.

⁵² The Agreement on the Conservation of African-Eurasian Migratory Waterbirds



| King Fisher | Alcedo atthis | 29 | 1.3km south | Bern A2, BirdsDir A1, FEP 007 tab2, WACA Sch1 part1 |
|---------------------------|-----------------------------|-----|----------------|--|
| Teal | Anas crecca | 201 | 1.3km south | Bird Amber, BirdsDir A2.1, CMS A2, CMS AEWA A2, ECCITES C, Northumberland BAP |
| Wigeon | Anas Penelope | 79 | 1.3km south | Bird-Amber, BirdsDir-A2.1, CMS_A2, CMS_AEWA-A2, ECCITES-C, Northumberland BAP |
| Mallard | Anas platyrhynchos | 228 | 1.3km south | Bird-Amber, BirdsDir-A2.1, CMS_A2, CMS_AEWA-A2 |
| Gadwall | Anas strepera | 23 | 1.3km south | Bird-Amber, BirdsDir-A2.1, CMS_A2, CMS_AEWA-A2 |
| White Fronted Goose | Anser albifrons | 2 | 1.3km south | Bird-Red, BirdsDir-A2.2, CMS_A2, CMS_AEWA-A2 |
| Greylag Goose | Anser anser | 200 | 1.3km south | Bird-Amber, BirdsDir-A2.1, CMS_A2, CMS_AEWA-A2, WACA-Sch1_part2 |
| Pink Footed Goose | Anser brachyrhynchu s | 24 | 1.3km south | Bird-Amber, BirdsDir-A2.2, CMS_A2, CMS_AEWA-A2 |
| Meadow Pipit | Anthus pratensis | 41 | 1.3km south | Bern-A2, Bird-Amber |
| Swift | Apus apus | 60 | 1.3km south | Bird-Amber, Northumberland BAP |
| Grey Heron | Ardea cinerea | 121 | 1.3km south | CMS_AEWA-A2 |
| Little Owl | Athene noctua | 3 | 1.3km south | Bern-A2, ECCITES-A |
| Pochard | Aythya farina | 3 | 1.3km south | Bird-Red, BirdsDir-A2.1, CMS_A2, CMS_AEWA-A2 |



| Tufted Duck | Aythya fuligula | 4 | 1.3km south | BirdsDir-A2.1, CMS_A2, CMS_AEWA-A2 |
|-------------------------|--------------------------------|-----|----------------|---|
| Waxwing | Bombycilla garrulous | 2 | 1.3km south | Bern-A2 |
| Canada Goose | Branta Canadensis | 46 | 1.3km south | BirdsDir-A2.1, CMS_A2, WACA Sch 9 Part 1 |
| Goldeneye | Bucephala clangula | 1 | 1.3km south | Bird-Amber, BirdsDir-A2.2, CMS_A2, CMS_AEWA-A2, WACA-Sch1_part2 |
| Buzzard | Buteo buteo | 136 | 1.3km south | CMS_A2, ECCITES-A |
| Dunlin | Calidris alpine | 3 | 1.3km south | Bird-Amber, Bern-A2, CMS_A2, CMS_AEWA-A2, FEP-007_tab2 |
| Goldfinch | Carduelis carduelis | 151 | 1.3km south | Bern-A2, Northumberland BAP |
| Greenfinch | Carduelis chloris | 56 | 1.3km south | Bern-A2, Northumberland BAP |
| Tree Creeper | Certhia familiaris | 1 | 1.3km south | Bern-A2 |
| Little Ringed Plover | Charadrius dubius | 41 | 1.3km south | Bern-A2, CMS_A2, CMS_AEWA-A2, WACA- Sch1_part1 |
| Ringed Plover | Charadrius hiaticula | 13 | 1.3km south | Bern-A2, Bird-Red, CMS_A2, CMS_AEWA-A2, Northumberland BAP |
| Black Headed Gull | Chroicocephal us ridibundus | 205 | 1.3km south | Bird-Amber, BirdsDir-A2.2, CMS_AEWA-A2, |
| Dipper | Cinclus cinclus | 6 | 1.3km south | Bern-A2, Bird-Amber |
| Rock Dove | Columba livia | 8 | 1.3km south | BirdsDir-A2.1, ECCITES-A |



| Stock Dove | Columba oenas | 70 | 1.3km south | Bird-Amber, BirdsDir-A2.2, Northumberland BAP |
|--------------------------------|---|-----|----------------|--|
| Woodpigeon | Columba palumbus | 270 | 1.3km south | BirdsDir-A2.1, Northumberland BAP |
| Carrion Crow | Corvus corone | 240 | 1.3km south | BirdsDir-A2.2 |
| Rook | Corvus frugilegus | 5 | 1.3km south | BirdsDir-A2.2, Northumberland BAP |
| Jackdaw | Corvus monedula | 246 | 1.3km south | BirdsDir-A2.2, Northumberland BAP |
| Cuckoo | Cuculus canorus | 1 | 1.3km south | BAP-2007, Bird-Red, England_NERC_S.41, |
| Blue Tit | Cyanistes caeruleus | 214 | 1.3km south | Bern-A2 |
| Bewick's Swan | Cygnus columbianus subsp. bewickii | 1 | 1.3km south | BAP-2007, Bern-A2, Bird- Amber, BirdsDir-A1, CMS_A2, CMS_AEWA-A2, England_NERC_S.41 |
| Whooper Swan | Cygnus Cygnus | 13 | 1.3km south | Bern-A2, BirdsDir-A1, CMS_A2, CMS_AEWA-A2, FEP-007_tab2, WACA- Sch1_part1 |
| Mute Swan | Cygnus olor | 60 | 1.3km south | Bird-Amber, BirdsDir-A2.2, CMS_A2, CMS_AEWA-A2 |
| House Martin | Delichon urbicum | 67 | 1.3km south | Bern-A2, Bird-Amber |
| Great Spotted Woodpecker | Dendrocopos major | 23 | 1.3km south | Bern-A2 |
| Little Egret | Egretta garzetta | 2 | 1.3km south | Bern-A2, BirdsDir-A1, CMS_AEWA-A2, ECCITES-A |
| Yellowhamm er | Emberiza citronella | 3 | 1.3km south | BAP-2007, Bern-A2, England_NERC_S.41, |



| | | | | FEP-007_tab2, Northumberland BAP | | | |
|----------------------|--------------------------|-----|----------------|---|--|--|--|
| Reed Bunting | Emberiza schoeniclus | 40 | 1.3km south | BAP-2007, Bern-A2, England_NERC_S.41, FEP-007_tab2, Northumberland BAP | | | |
| Robin | Erithacus rubecula | 206 | 1.3km south | Bern-A2 | | | |
| Peregrine | Falco peregrinus | 5 | 1.3km south | Bern-A2, BirdsDir-A1, CMS_A2, ECCITES-A, WACA-Sch1_part1 | | | |
| Hobby | Falco Subbuteo | 1 | 1.3km south | Bern-A2, CMS_A2, ECCITES-A, WACA- Sch1_part1 | | | |
| Kestrel | Falco tinnunculus | 186 | 1.3km south | Bern-A2, CMS_A2, ECCITES-A, FEP- 007_tab2, Northumberland BAP | | | |
| Coot | Fulica atra | 49 | 1.3km south | BirdsDir-A2.1, CMS_AEWA-A2 | | | |
| Snipe | Gallinago gallinag | 65 | 1.3km south | BirdsDir-A2.1, CMS_A2, CMS_AEWA-A2, Durham BAP, FEP-007_tab2, Northumberland BAP | | | |
| Moorhen | Gallinula chloropus | 252 | 1.3km south | BirdsDir-A2.2, CMS_A2, CMS_AEWA-A2 | | | |
| Jay | Garrulus glandarius | 12 | 1.3km south | BirdsDir-A2.2 | | | |
| Oystercatch er | Haematopus ostralegus | 68 | 1.3km south | Bird-Amber, BirdsDir-A2.2, CMS_AEWA-A2, Northumberland BAP | | | |
| Swallow | Hirundo rustica | 78 | 1.3km south | Bern-A2, Northumberland BAP | | | |
| Great Grey Shrike | Lanius excubitor | 1 | 1.3km south | Bird-Red, BirdsDir-A2.2, CMS_AEWA-A2 | | | |



| Herring Gull | Larus argentatus | 198 | 1.3km south | Bird-Red, BirdsDir-A2.2, CMS_AEWA-A2 |
|-----------------------------|-----------------------------|-----|----------------|---|
| Common Gull | Larus canus | 41 | 1.3km south | Bird-Amber, BirdsDir-A2.2, CMS_AEWA-A2 |
| Lesser Black Headed Gull | Larus fuscus | 84 | 1.3km south | Bird-Amber, BirdsDir-A2.2, CMS_AEWA-A2 |
| Great Black Headed Gull | Larus marinus | 18 | 1.3km south | Bird-Amber, BirdsDir-A2.2, CMS_AEWA-A2 |
| Mediterrane an Gull | Larus melanocephal us | 1 | 1.3km south | Bern-A2, Bird-Amber, BirdsDir-A1, CMS_A2, CMS_AEWA-A2, WACA- Sch1_part1 |
| Black-tailed Godwit | Limosa limosa | 2 | 1.3km south | BirdsDir-A2.2, CMS_A2, CMS_AEWA-A2, FEP- 007_tab2, RedList_Global_post2001_ NT, WACA-Sch1_part1 |
| Linnet | Linaria cannabina | 39 | 1.3km south | Bern-A2, Durham BAP, FEP-007_tab2, Northumberland BAP |
| Grasshopper Warbler | Locustella naevia | 2 | 1.3km south | BAP-2007, Bird-Red, England_NERC_S.41 |
| Goosander | Mergus merganser | 2 | 1.3km south | BirdsDir-A2.2, CMS_A2, CMS_AEWA-A2 |
| Red Kite | Milvus milvus | 23 | 1.3km south | BirdsDir-A1, CMS_A2, ECCITES-A, FEP- 007_tab2, RedList_Global_post2001_ NT, WACA-Sch1_part1 |
| Pied Wagtail | Pied Wagtail Motacilla alba | | 1.3km south | Bern-A2 |



| White Wagtail | Motacilla alba subsp. alba | 7 | 1.3km south | Bern-A2 |
|-------------------|-------------------------------|-----|----------------|--|
| Grey Wagtail | Motacilla cinerea | 10 | 1.3km south | Bern-A2, Bird-Red |
| Yellow Wagtail | Motacilla flava | 7 | 1.3km south | Bern-A2, Durham BAP, FEP-007_tab2, Northumberland BAP |
| Curlew | Numenius arquata | 182 | 1.3km south | Bird-Red, BAP-2007, BirdsDir-A2.2, CMS_A2, CMS_AEWA-A2, Durham BAP, England_NERC_S.41, FEP-007_tab2, Northumberland BAP, RedList_Global_post2001_ NT |
| Wheatear | Oenanthe oenanthe | 1 | 1.3km south | Bern-A2 |
| Osprey | Pandion haliaetus | 1 | 1.3km south | Bird-Amber, BirdsDir-A1, CMS_A2, ECCITES-A, WACA-Sch1_part1 |
| Great Tit | Parus major | 213 | 1.3km south | Bern-A2 |
| House Sparrow | Passer domesticus | 240 | 1.3km south | BAP-2007, Bird-Red, Durham BAP, England_NERC_S.41 |
| Tree Sparrow | Passer montanus | 178 | 1.3km south | BAP-2007, Durham BAP, England_NERC_S.41, FEP-007_tab2, Northumberland BAP |
| Grey Partridge | Perdix perdix | 3 | 1.3km south | BAP-2007, BirdsDir-A2.1, England_NERC_S.41, FEP-007_tab2, Northumberland BAP |
| Coal Tit | Periparus ater | 156 | 1.3km south | Bern-A2 |



| Cormorant | Phalacrocorax carbo | 17 | 1.3km south | CMS_AEWA-A2 |
|-------------------|----------------------------|-----|------------------|---|
| Pheasant | Phasianus colchicus | 134 | 1.3km south | BirdsDir-A2.1 |
| Redstart | Phoenicurus phoenicurus | 1 | 1.3km south | Bern-A2, Bird-Amber |
| Willow Warbler | Phylloscopus trochilus | 7 | 1.3km south | Bird-Amber |
| Magpie | Pica pica | 246 | 1.3km south | BirdsDir-A2.2 |
| Willow Tit | Poecile montana | 43 | 1.3km south | Bern-A2, Bird-Red, FEP- 007_tab2 |
| Marsh Tit | Poecile palustris | 1 | 1.3km south | Bern-A2, Bird-Red |
| Dunnock | Prunella modularis | 208 | 1.3km south o | Bern-A2, Bird-Amber, Northumberland BAP |
| Bullfinch | Pyrrhula pyrrhula | 20 | 1.3km south | FEP-007_tab2, Northumberland BAP |
| Goldcrest | Regulus regulus | 7 | 1.3km south | Bern-A2, Northumberland BAP |
| Sand Martin | Riparia riparia | 68 | 1.3km south | Bern-A2 |
| Nuthatch | Sitta europaea | 4 | 1.3km south | Bern-A2 |
| Siskin | Spinus spinus | 2 | 1.3km south | Bern-A2 |
| Collared Dove | Streptopelia decaocto | 89 | 1.3km south | BirdsDir-A2.2 |
| Starling | Sturnus vulgaris | 234 | 1.3km south | BirdsDir-A2.2, Durham BAP, FEP-007_tab2, Northumberland BAP |



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|--------------------|----------------------------|-----|----------------|--|
| Little Grebe | Tachybaptus ruficollis | 1 | 1.3km south | CMS_AEWA-A2 |
| Shelduck | Tadorna tadorna | 88 | 1.3km south | Bern-A2, Bird-Amber, CMS_A2, CMS_AEWA-A2 |
| Wood Sandpiper | Tringa glareola | 2 | 1.3km south | Bern-A2, Bird-Amber, BirdsDir-A1, CMS_A2, CMS_AEWA-A2, WACA- Sch1_part1 |
| Green Sandpiper | Tringa ochropus | 3 | 1.3km south | Bern-A2, Bird-Amber, CMS_A2, CMS_AEWA-A2, WACA-Sch1_part1 |
| Greenshank | Tringa nebularia | 5 | 1.3km south | Bird-Amber, BirdsDir-A2.2, CMS_A2, CMS_AEWA-A2, WACA-Sch1_part1 |
| Redshank | Tringa totanus | 81 | 1.3km south | BirdsDir-A2.2, CMS_A2, CMS_AEWA-A2, Durham BAP, FEP-007_tab2, Northumberland BAP |
| Wren | Troglodytes troglodytes | 91 | 1.3km south | Bern-A2 |
| Redwing | Turdus iliacus | 71 | 1.3km south | Bird-Red, BirdsDir-A2.2, WACA-Sch1_part1 |
| Blackbird | Turdus merula | 233 | 1.3km south | BirdsDir-A2.2 |
| Song Thrush | Turdus philomelos | 50 | 1.3km south | BirdsDir-A2.2, Durham BAP, FEP-007_tab2, Northumberland BAP |
| Fieldfare | Turdus pilaris | 59 | 1.3km south | Bird-Red, BirdsDir-A2.2, WACA-Sch1_part1 |
| Mistle Thrush | Turdus viscivorus | 72 | 1.3km south | Bird-Red, BirdsDir-A2.2 |
| Lapwing | Vanellus vanellus | 191 | 1.3km south | BAP-2007, BirdsDir-A2.2, CMS_A2, CMS_AEWA-A2, Durham BAP, England_NERC_S.41, FEP-007_tab2, Northumberland BAP |

PLANT SPECIES RECORDED

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Table 4 - Plant species recorded

| Common name | Latin name | Frequency (DAFOR) | | | | | | |
|-----------------------------|----------------------|-------------------|--|--|--|--|--|--|
| B6: Poor Semi-Improved G | rassland | | | | | | | |
| Perennial Ryegrass | Lolium Perenne | D | | | | | | |
| Cocksfoot | Dactylis glomerate | F | | | | | | |
| Creeping Bent | Agrostis stolonifera | F | | | | | | |
| Creeping Buttercup | Ranunculus repens | 0 | | | | | | |
| Soft Rush | Juncus effusus | R | | | | | | |
| Mousear | Cerastium fontanum | 0 | | | | | | |
| Common Daisy | Bellis perennis | 0 | | | | | | |
| Knapweed | Centaurea nigra | 0 | | | | | | |
| Common Nettle | Urtica dioica | 0 | | | | | | |
| A2.2: Scattered Scrub | | | | | | | | |
| Hawthorn | Crataegus monogyna | F | | | | | | |
| Bramble | Rubus fruticosus | 0 | | | | | | |
| Dog Rose | Rosa canina | 0 | | | | | | |
| Common Broom | Cytisus scoparius | 0 | | | | | | |
| A3.1: Scattered Broadleaf T | rees | | | | | | | |
| Poplar Sp. | Populus sp. | D | | | | | | |
| Silver Birch | Betula pendula | F | | | | | | |
| C3.1: Tall Ruderal | C3.1: Tall Ruderal | | | | | | | |
| Willowherb Sp. | Epilobium sp. | F | | | | | | |
| Male Fern | Dryopteris filix-mas | F | | | | | | |
| Knapweed | Centaurea nigra | R | | | | | | |
| Vetch Sp. | Vicia sp. | F | | | | | | |



| Common name | Latin name | Frequency (DAFOR) |
|-----------------------------|----------------------|-------------------|
| Common Dock | Rumex obtusifolius | F |
| Hogweed Sp. | Heracleum sp. | R |
| Creeping Thistle | Cirsium arvense | Ο |
| Bramble | Rubus fruticosus | А |
| G3.1: Standing Water - Ogli | otrophic | |
| Perennial Ryegrass | Lolium Perenne | D |
| Cocksfoot | Dactylis glomerate | F |
| Creeping Bent | Agrostis stolonifera | F |
| Common Dock | Rumex obtusifolius | 0 |
| Creeping Buttercup | Ranunculus repens | Ο |
| J2.1.2: Intact Hedge – Spec | | |
| Hawthorn | Crataegus monogyna | D |

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TARGET NOTES



TN1 – Bat box fixed to gable end of a stable block – assessed as low suitability for roosting bats

TN2 – Culvert going under Lamesley Road draining from ephemeral water body present on the additional land

TN3 – Outflow of pipe connecting waterbodies together

TN4 – Intake of pipe draining from large ephemeral waterbody into another

TN5 – Soft rush present within ephemeral water body

TN6 – Poplar tree line – potential suitability to support roosting bats

TN7 – Church hall and additional commercial buildings present – potential suitability to support roosting bats.

TN8 – Residential complex containing trees, all of which have the potential to contain features suitable for supporting roosting bats.

TN9 – Residential complex, potential suitability to support roosting bats.

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PHOTOGRAPHS



Table 5 - Photographs



Photo 3: Hawthorn hedgerow within the additional land.

Photo 4: Poplar tree line at the eastern boundary of the additional land.

HSI CALCULATIONS

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Table 7 - HSI Calculations

| Pond Ref. | S1: Geographic location | S2: Water body area | S3: Water body permanence | S4: Water quality | S5: % Shade (1m from bank) | S6: Impact of waterfowl | S7: Fish stocks | S8: Number of water bodies <1km | S9: Terrestrial habitat | S10: Macrophyte cover (%cover) | HSI SCORE | HSI CATEGORY |
|--------------|-------------------------|---------------------|------------------------------|-------------------|-------------------------------|-------------------------|-----------------|------------------------------------|-------------------------|-----------------------------------|-----------|--------------|
| P1 | 1 | 0.1 | 0.1 | 0.33 | 1 | 1 | 1 | 1 | 0.33 | 0.3 | 0.45 | Poor |
| P2 | 1 | 0.1 | 0.1 | 0.33 | 1 | 1 | 1 | 1 | 0.33 | 0.3 | 0.45 | Poor |
| P3 | 1 | 0.1 | 0.1 | 0.33 | 1 | 1 | 1 | 1 | 0.33 | 0.3 | 0.45 | Poor |
| P4 | 1 | 0.1 | 0.1 | 0.33 | 1 | 1 | 1 | 1 | 0.33 | 0.3 | 0.45 | Poor |
| P5 | 1 | 0.1 | 0.1 | 0.33 | 1 | 1 | 1 | 1 | 0.33 | 0.3 | 0.45 | Poor |
| P6 | 1 | 0.1 | 0.1 | 0.33 | 1 | 1 | 1 | 1 | 0.33 | 0.3 | 0.45 | Poor |

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