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Phase 1 Extended Ecological Survey



Site: Birley Hill Barn, Bush Bank, Herefordshire, HR4 8EN

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Summary Sheet

Date of Survey:	31 August 2024
OS Grid Reference:	SO 454 519
Main Findings:	<ul style="list-style-type: none"> • Location is a large modern steel framed building of no ecological value. • Land around the barn is dominated by hardstanding associated with access, the field adjacent to the application is improved grassland and currently used for sheep grazing, within this area traditional fruit trees are located and external of application area. • Higher value hedgerow habitats and Woodland is present in wider area and unaffected by proposal. • No potential bird nesting on or in the building, external hedgerows are juvenile and poor. • Negligible potential for bats within the building due to modern construction type and materials. • No herpetological opportunities on site.
Conclusions:	<ul style="list-style-type: none"> • Protected species are present locally and a risk of disturbance is minimal. • Timing of work is to be programmed to reduce disturbance to wildlife ie refurbishment, vegetation removal, dust and noise • The habitat on site is common and widespread locally, regionally and within the UK and it is not considered that habitat losses will result in a significant ecological impact. • There will be no significant adverse ecological impacts upon any designated sites external of search area resulting from this proposal.
Recommendations for Mitigation & Enhancement:	<ul style="list-style-type: none"> • Ecological clerk of works to be appointed to check surrounding area prior to work commencing. • Bats – No external lighting, during construction and post construction of boundaries, sensitive lighting design will replace existing floodlighting. • Bird and bat boxes are to be incorporated within the development scheme. Insect/bee and hedgehog hotels to be installed. • Hibernaculum is to be constructed. • Biodiversity Enhancement scheme to be initiated post construction.

1. Introduction

1.1 Instructions and Objectives

Heritage Environmental Contractors Ltd (HEC Ltd) was commissioned by Applicant to undertake a Phase 1 Habitat Survey in support of a planning application for the conversion of an existing structure utilising existing access arrangements.

The desk study, field survey and evaluation are intended to provide information on the general habitat characteristics of the site and its surroundings including the likely presence of legally protected species and habitats encountered within the study area.



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2. Methodology

2.1 Study Area

The site is situated in the small settlement of Bush Bank, North Herefordshire approximately 10km to north of the city of Hereford and can be located by Ordnance Survey National Grid Reference (OSN GR) SO 454 519. It covers an area of approximately 400m² and is currently unused.

2.2 Desk Top Study

A desk study was carried out to identify the presence of any statutory or non-statutory sites within 1km of the study area together with records of any known legally protected or rare species.

The site and land within the area was surveyed to the guidelines as in the Handbook for Phase 1 Habitat Survey (JNCC 2010). The report follows the 2018 CIEEM guidance to reflect the small size of the site and the limited impact of the proposal.

Herefordshire Biological Record Centre (HBRC) were consulted to provide data of legally protected species and locally rare species within 1km of the boundary of the study area. Details of any designated sites of importance for nature conservation were also requested.

Google maps was used for aerial views to identify important landscape features around the site.

2.3 Field Survey

A walk-over ecological survey of the study area was undertaken following guidelines for baseline ecological assessment '95 and as per the Handbook for Phase 1 Habitat Survey (JNCC 2010). The site survey was carried out on 31 August 2024 and the weather conditions were bright with light rain shower prior to start of survey developing at and a temperature of 22°C. conditions were typical for time of years and suitable for site survey. The survey was carried out by Mr J Fennessy BSc Hons. MEECW. M Arbor A. with over 25 years ecological surveying experience.

The Phase 1 habitat survey provides information on the habitats in the study area and assesses the potential for notable fauna to occur in the study area. Local Biodiversity BAP species and habitats potentially capable of supporting these species will be identified.

Preliminary investigations were undertaken to determine whether the site is supporting legally protected species by:

- Searching for signs of bird nests and identifying suitable nesting sites with the recording of mature trees and hedgerows.
- Recording of all birds observed during study area visits.
- Searching for signs of badger activity including setts, tracks, and latrines.
- Searching for signs of potential roosting sites and flight lines for bats
- Searching for suitable habitats for breeding populations of great crested newts.
- Searching for suitable habitats for reptiles and general amphibians.
- Searching for signs of dormice.
- Searching for other species and habitats.

2.4 Evaluation and Significance of Impacts

The assessment of the potential impacts of the proposed development needs to consider both on-site impacts as well as those which may occur to adjacent areas of ecological value. Impacts can be permanent or temporary, direct or indirect and can include:

- Direct loss of wildlife habitats;
- Fragmentation and isolation of habitats;
- Disturbance to species

2.4.1 Limitations

Ecological surveys are limited by factors which affect the presence of plants and animals such as the time of year and behaviour, the ecological survey of this site has not produced a complete list of plants and animals. Specific fauna and flora have a narrow period for leaf, flower or fruiting evidence outside this period of their existence can be limited or non-existent. Late spring/early summer is the period when most species show identifiable characteristics. Surveys can also be affected by time of day and weather conditions. For the purpose of this report the time of year will give an accurate indication of likely habitats and species to be found on site.

Please note the absence of a past record does not necessarily mean the absence of a rare species and may be an example of under recording.

HEC Ltd findings are limited to the specific time of the survey, any changes to the site post survey will have a bearing on composition and may affect the site recommendations.

Legal Guidance

The information set out within this report in no way constitutes a legal opinion on the relevant legislation. The opinion of a legal professional should be sought if further advice is required.

3. Results

3.1 Site Location and Setting

The proposed site is situated in the village of Bush Bank, North Herefordshire, the area is generally mixed farming, typical of this part of the county with Westhope Woods being a major feature of the landscape. The proposal is the conversion of an existing modern structure. The immediate area around the building is used for vehicle access and dominated by hardstanding associated with previous usage, a field with improved grass and fruit trees are found external of application area.

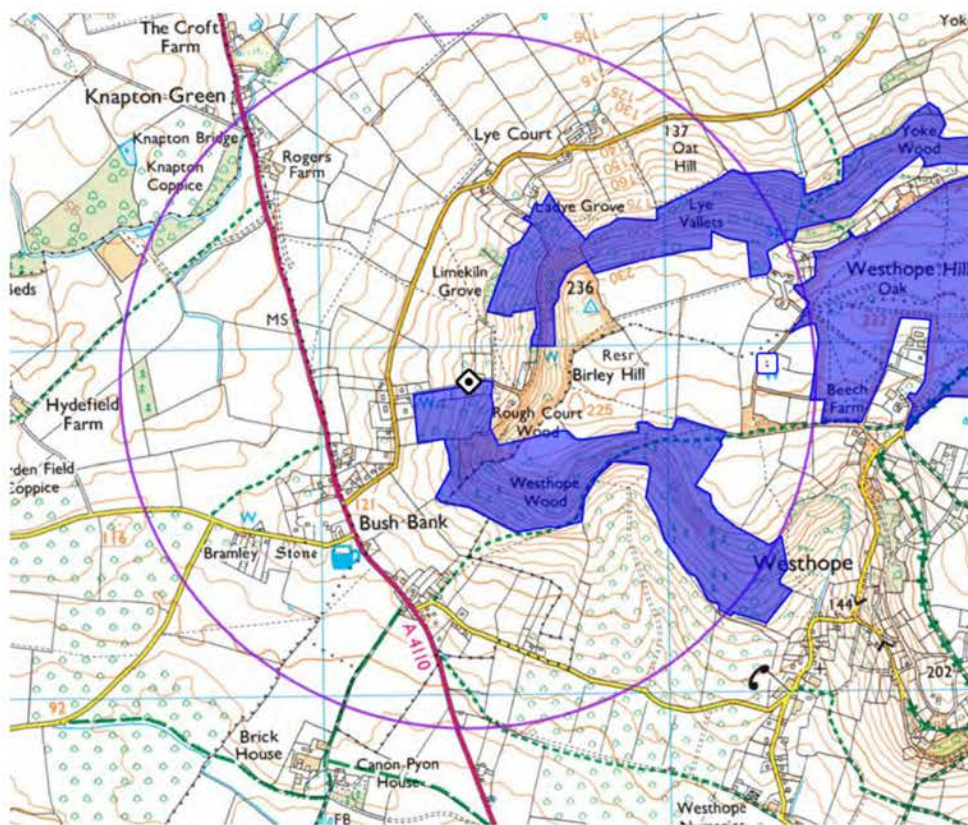
3.2 Desk Study

Data was provided for statutory and non-statutory designated sites and protected species within a 1km radius of the site from HBRC records and maps are to be found in appendix at rear. From details provided the relevant ecological data has been reviewed. HEC Ltd is not aware of any previous surveys conducted on this site

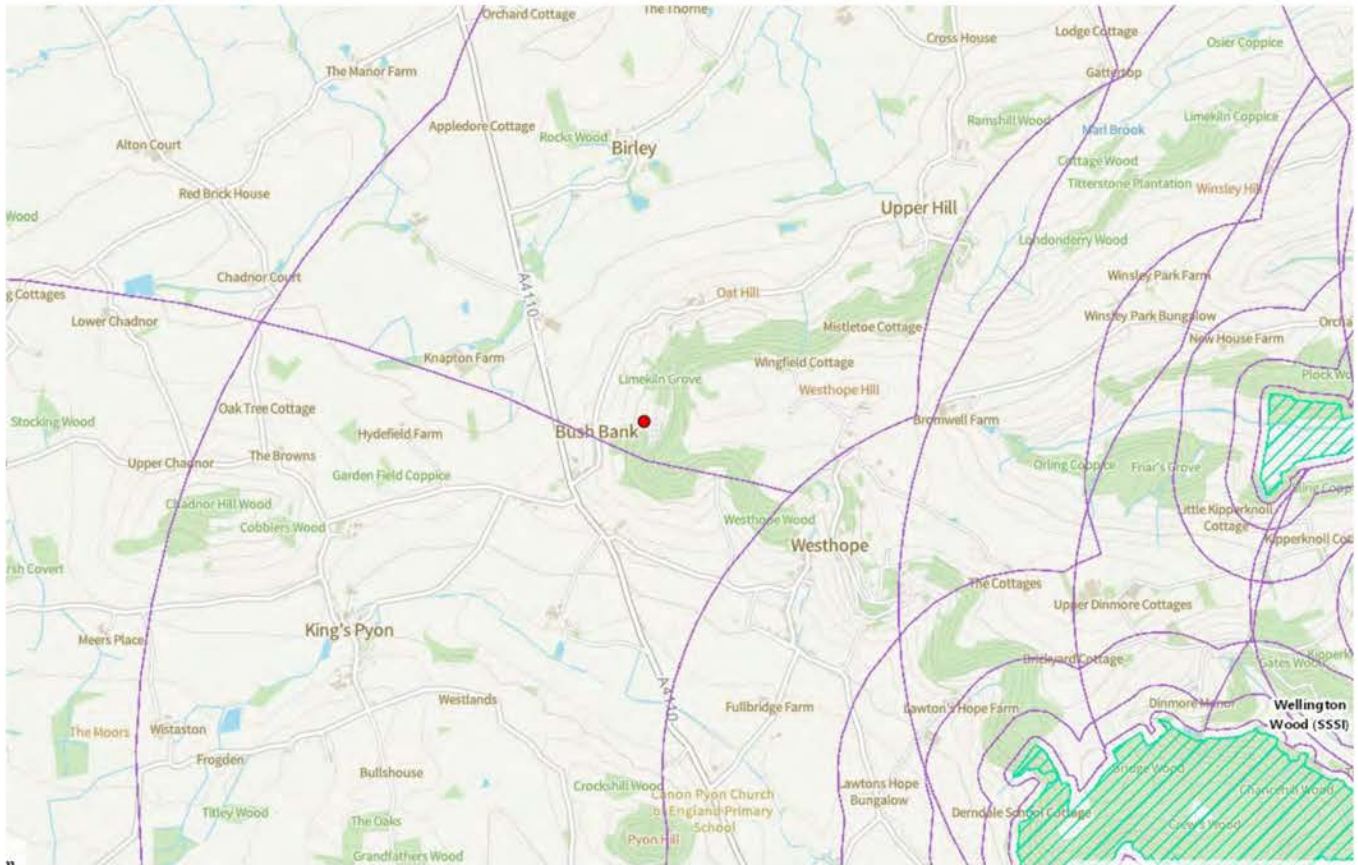
Designated Sites

No SAC or SSSI sites recorded .

Westhope Hill and Surrounding Woodland SWS -SO45/009 – located on opposite side of lane.



SSSI Impact Risk Zones - to assess planning applications for likely impacts on SSSIs/SACs/SPAs & Ramsar sites (England)



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3.2.1 Protected species

Protected species have been recorded within 1km of the local area of the site. For species list please refer to HBRC records and locations maps in rear appendix.

Bats –2017 has 3 entries for Common Pipistrelle (*Pipistrellus pipistrellus*) as Present from a linear survey along village road 390m -734m from site.

2014 Records Bat (Chiroptera) droppings 515m to south west within village centre.

1989 also records Bat (Chiroptera) at 2 sites around Ladye Grove as present.

Dormice – This species has been recorded locally in 1991 and 1977 within woodland and closet record 400m to east.

Hedgehog- Recorded 4 times between 2006 -2012 458m from site.

Polecat- Recorded within Westhope Woods 409m from site in 2017 and at Rogers Farm 1992 near edge of data search to north.

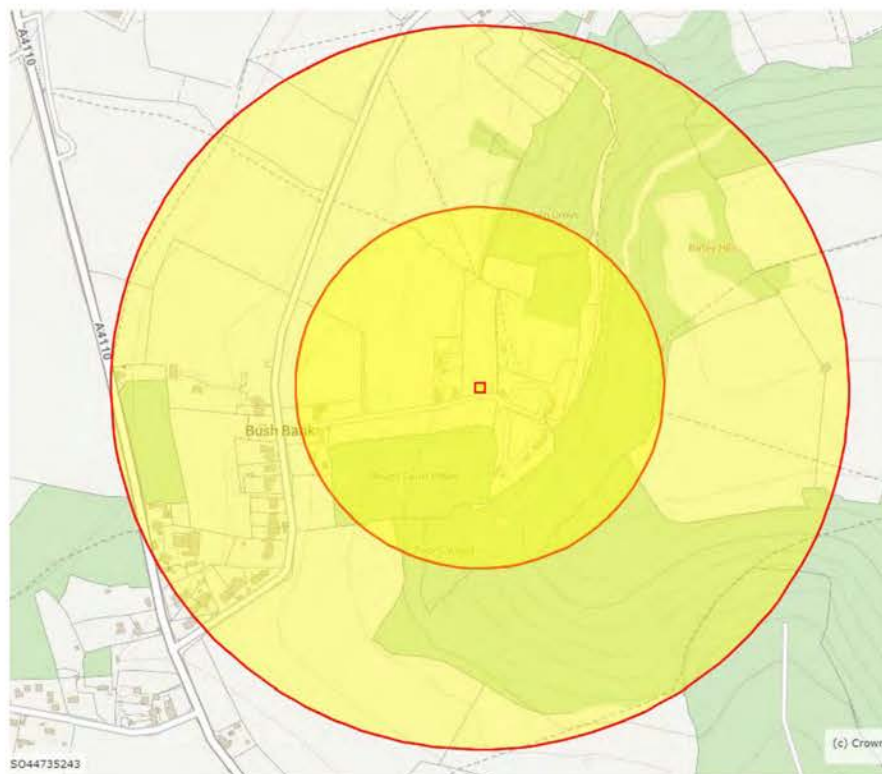
Birds – The majority of data is located to the north of Ladye Grove 603m 2006-2011 and at Knapton 2003-2009 730m from site. Red list species include Cuckoo (*Cuculus canorus*), Redwing (*Turdus iliacus*), Lesser Spotted Woodpecker (*Dendrocopos minor*), Lapwing (*Vanellus vanellus*), Fieldfare (*Turdus pilaris*), Starling (*Sturnus vulgaris*), Skylark (*Alauda arvensis*), Spotted Flycatcher (*Muscicapa striata*) and Yellow hammer (*Emberiza citronella*) full list of species can be found in rear appendices.

Barn Owl is also recorded at same location as other bird records above and Present.

Amphibians – Not Recorded.

Great Crested Newts (*Triturus cristatus*) – Not recorded locally. The closest Great Crested Newt Class Survey Licence Return is located 7 km to south around Wellington Marsh area with no connectivity.

250/500m buffer zone



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Reptiles – This species has not been recorded locally.

Invertebrates – Recorded locally at 3 site with closest 410m to south within Westhope Wood species include Buff Ermine (*Spilosoma luteum*), White Ermine (*Spilosoma lubricipeda*), Blood vein (*Timandra comae*), Cinnabar (*Tyria jacobaeae*), Silver washed fritillary (*Argynnis paphia*), Small Heath (*Coenonympha pamphilus*), Wall Lasiommata megera, Mouse moth (*Amphipyra tragopoginis*), and Small Square spot (*Diarsia rubi*) full list in rear

4. Survey

4.1 Site description

The site comprises of approximately 400m² which is completely dominated by the structure and hardstanding around the external margins of the building.

The proposal is approached via an existing site entrance with mixed native hedge on margin of roadside.

Buildings (J3.6)/ Hard Standing (J5)

The building is currently unused and completely empty, it has a solid concrete floor and constructed with a standard steel frame portal with modern sheet cladding, access is via a large roller door and single pedestrian door.

Externally the surrounding area has crushed stone and scalplings, these are also associated with the site access, within these areas low numbers of self-sown weeds forming and can be considered to be a temporary feature and short term and will be dependent upon ongoing maintenance

The building has internal and external floodlighting.



Native Hedge

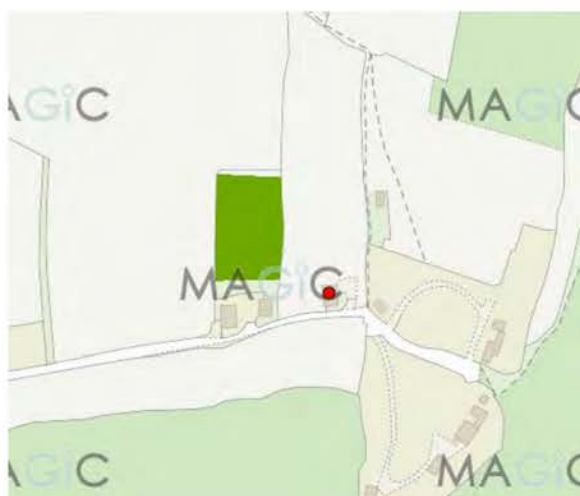
The roadside hedge at rear of barn and along gated entrance is mixed and juvenile, species include *Crataegus monogyna* (Hawthorn), *Corylus avellane* (Hazel), *Viburnum opulus* (Wayfair), *Prunus spinosa* (Blackthorn) and *Acer Campestre* (Field maple), Mixed mature hedgerow is found external of application area, associated with the wider field and roadside margin opposite site boundary. Ground flora is narrow due to location.



Adjacent habitats

The surrounding land is dominated by Poor Semi Improved Grassland (B6) which the application area is located within. The field is currently grazed by sheep and in long term grazing. The grassland has coverage of common grass species, species noted on the day include *Lolium perenne* (Perennial ryegrass), *Agrostis stolonifera* (Creeping bent), *Festuca* spp, (*Festuca*) and *Dactylis glomerata* (Cocksfoot) with the maximum diversity around margins. Other species recorded within the sward and around the margins were common and include *Urtica dioica* (Nettle), *Rumex obtusifolius* (Broad-leaved dock), *Trifolium repens* (Clover), *Cirsium arvense* (Creeping thistle) and *Taraxacum officinale* (Common dandelion).

Within the adjacent field to the east a small group of fruit trees are present, background data check does not show this area as orchard and likely planted by the adjacent cottage in recent past. The field to the north of the adjacent property is recorded as Traditional Orchard, both of these areas are external of application area and unaffected.



4.2 Protected Species

Badgers – Badger activity was not recorded within the application area and the field margin of the adjacent field was walked in its entirety and no evidence found, the roadside margin was also walked. Access was not gained to adjacent residential gardens.

Bats - A full bat survey was not conducted. Internally the modern building is sealed with no potential bat access points observed, no evidence of bat usage were noted during the assessment, this included dead bats, droppings, staining, smell and fras etc. Floodlighting is present internally and externally. This structure is unsuitable for bats . No trees are present on site, the short roadside hedge offers some foraging/ flightlines, but would be mainly associated with opposite side of road.



A bat risk assessment was carried out as part of this survey and classified as "Negligible " (Collins) and does not require further surveys.

Guidelines for assessing bat roosting potential of structures and trees.

Suitability	Habitat description	Further action required?
Negligible	Negligible habitat features on site likely to be used by roosting bats.	No further bat risk assessment effort or bat activity surveys are required.
Low	A structure with one or more potential roost sites that could be used by individual bats opportunistically. However, these potential roost sites do not provide enough space, shelter, protection, appropriate conditions and/or suitable surrounding habitat to be used on a regular basis or by larger numbers of bats (i.e. unlikely to be suitable for maternity or hibernation).	Structures: One bat activity survey is required to determine whether the structure is being utilised by roosting bats; this may be a dusk or dawn survey. This survey must occur between May and August. The discovery of a roosting bat during this single bat activity survey will require further survey effort.
	A tree of sufficient size and age to contain PRFs, but with none seen from the ground or features seen with only very limited roosting potential.	Trees: No further bat risk assessment effort or bat activity surveys are required.
Moderate	A structure or tree with one or more potential roost sites that could be used by bats due to their size, shelter, protection conditions and surrounding habitat, but unlikely to support a roost of high conservation status.	Two bat activity surveys are required to determine whether the structure or tree is being utilised by roosting bats; this should be comprised of one dusk and one dawn survey. One survey must occur between May and August.
High	A structure or tree with one or more potential roost sites that are obviously suitable for use by larger numbers of bats on a more regular basis and potentially for longer periods of time due to their size, shelter, protection, conditions and surrounding habitat.	Three bat activity surveys are required to determine whether the structure or tree is being utilised by roosting bats; this should be comprised of one dusk and one dawn survey, with an additional survey (either dusk or dawn). Two surveys must occur between May and August.

External of the application area woodland and treelined fields will provide valuable flight corridors and link other various woodlands providing valuable habitats.

Dormouse – A nut check was able to be carried out along roadside and only squirrel opening techniques observed, hedges at rear of application area are poor with major breaks due to access arrangements breaking connectivity with more mature hedge lines. The general area has large blocks of woodlands with hedgerow links providing optimum habitats.

Amphibians – Not observed, the site has very limited suitable habitat and only associated with the very narrow section of juvenile hedgerow along roadside. The external grassland in adjacent field was short grazed and will have minimal potential depending upon current grazing arrangements.
No ponds are present on or adjacent to site.

Great Crested Newts - A daytime survey was carried out and not observed. The building and its surrounds offer no opportunities. The external field offers poor habitat for this species due to tight grazing, no ponds are found within 250m or 500m of site.

Reptiles – Not observed, the site has no suitable cover around the building, the hedge margins are very narrow and lack vegetation further limiting potential use. Grass snakes may visit the external field on a casual basis, but will be dependent upon cover.

Birds – No evidence of Barn owl use observed and no seasonal migratory bird nesting on structure. The external hedge currently provides poor nesting habitat due to age, this will develop over time to provide higher quality nesting habitat.
Birds recorded on the day include Buteo buteo (Buzzard), Turdus merula (Black bird), Pica pica (Magpie), and Columba palumbus (Pigeon).

Invertebrates- The site has minimal opportunities as the building and hardstanding dominate the application area.



5. Site Evaluation

5.1 Habitat

The proposal is the conversion of an existing modern steel framed building, the structure provides no opportunities for any protected species with the external hardstanding offering limited/ no potential to support any protected species.

Access is via the existing entrance that is to remain unchanged and so no hedgerows are affected by proposal. External of the application area traditional fruit trees are found within the main field and a Traditional Orchard is recorded within the adjacent property, both of these areas are external of application area and unaffected by proposal.

LPA will need to assess application via habitat regulation assessment in relation to residual nitrogen, phosphates or suspended solids – “polices SD3 and SD4 of Herefordshire core strategy”. The discharge of water will be dealt with in the Surface Water Plan following best practice and sustainable drainage (SuDs).

The conversion of the steel framed structure is localised in nature, construction activities will be confined to areas within the site boundary. Any direct impacts to designated sites beyond the search area are expected to be negligible.

5.2 Mammals

Bats – The building offers “Negligible” potential for roosting bats, the large modern structure does not provide roosting opportunities. The construction and materials are not considered suitable for bats with large temperature fluctuations. Horseshoe species have been considered and the lack of any evidence reduces the use by these species to negligible.

Externally and internally large flood lighting is also present which further reduces the value of the structure and surrounding habitat, the removal of these and replacement with a sensitive design will be directly beneficial to these species.

External of application area optimum woodland habitat is located within WestHope Woods, these areas are sufficiently removed from application area to be adversely effected by this small project.

The recorded data is limited, these and unrecorded populations will be associated with traditional buildings and veteran trees within woodlands and are unlikely to be affected by this proposal.

No external lighting is to be used on any boundary or site margins, the existing external lighting on the property can be substituted to a more sensitive scheme with the use of directional beams, PiR sensors and low wattage. Dark Sky Principle can be followed and will be beneficial for the general area .

Ref: Institution of Lighting Professionals and Bat Conservation Trust (2018) Bats and artificial lighting in the UK -Bats and the built environment series guidance notes 08/18

Badgers – No evidence of badgers using the application area or adjacent field was found. The wider area has mixed woodland and field hedgerows that all offer potential for this transitory species. The conversion of this structure is unlikely to affect potential use by this species even on a casual basis, as a general precaution the Ecological Clerk of Work should carry out a walk over prior to any site work.

Dormice - Dormice are associated with deciduous woodland, hazel coppice and species rich hedges. The site only possesses a poor juvenile hedge along the roadside and unsuitable for this species. The wider region has optimum habitat associated with large broadleaved woodlands and unaffected by proposal, this species has been recorded historically within these woods. The conversion of the existing structure is unlikely to effect this species.

Hedgehogs - The site has minimal suitable habitat for this species along the narrow roadside margin, this area is to remain unaltered, no detrimental effect to this species will occur. Consideration should be given to the installation of a hedgehog nest box. Any new fences are required to have hedgehog free movement incorporated to allow unimpeded movement across the site.

5.3 Birds

The conversion of the buildings will have limited effect to the local bird population, any potential loss of opportunities can be mitigated with the erection of additional bird boxes. No nesting activity was observed at time of survey. The general area has the standard opportunities for farmland bird species, these will remain unchanged as no trees or hedges are to be affected. New bird boxes are required within the Biodiversity Enhancement Plan, these should also include at least house sparrow terraces.

5.4 Amphibians

The current buildings and associated hardstanding has no use for amphibians. No ponds are present on or adjacent to site, the site lacks suitable habitat for these species. The external field may provide some seasonal opportunities but will be dependant upon grazing levels and cover. The construction of hibernaculum within the existing hedgeline will be beneficial. Not recorded within Biological data.

Great Crested Newts – The structures and surrounding hardstanding provides no habitat for this species. No ponds are recorded within 500m of site and not recorded within biological data, the closest licence application is 7Km away with no connectivity due to agricultural practices and roads.

5.5 Reptiles

Reptiles prefer a mosaic type habitat, with varied structure to flourish. The site lacks any suitable habitat for this species. The general field to rear may offer some seasonal opportunities for transitory grass snake but will be dependent upon the amount of cover present.

5.6 Invertebrates

The actual site has no value for invertebrates. The construction of a habitat pile around the field margins will also help local populations increase.

Legislation

Badgers

The Protection of Badgers Act 1992 makes it illegal to kill, injure or capture badgers or deliberately or recklessly interfere with a badger sett which includes damaging a sett, obstructing access to a sett, and disturbing a badger while it is occupying a sett.

Bats

All species of bats and their breeding sites or resting places are protected under the Conservation of Habitats and Species Regulation 2010 and the Wildlife and Countryside Protection act 1981(amended). The deliberate capture, disturbance, injury or killing of bats is prohibited as is damaging, destroying or obstructing access to any place used by bats for shelter or breeding, whether they are present or not. Reckless disturbance or obstruction of access to a roost are also a criminal offence.

Birds

The Wildlife and Countryside Protection act 1981(amended) provides the legal protection of wild birds. All nesting birds and their nests eggs and young are protected from killing, injury, taking or selling.

Great Crested Newts

The Great Crested Newt is protected under Schedule 5 of the Wildlife and Countryside Protection act 1981 (amended) and are protected under the Conservation of Habitats and Species Regulation 2010. They are protected from deliberate killing, injury or capture with their habitat, including breeding site, resting place or any structure or place used for shelter or protection also protected against damage or destruction .it is also illegal to disturb great Crested Newts and their eggs are protected from taking or destroying.

Reptiles

Common reptile species are protected under the Wildlife and Countryside Protection act 1981(amended). The deliberate capture, killing and injury or being sold. The habitat of these reptiles is not directly protected, however, disturbing or destroying their habitat whilst they are present may lead to an offence.

Dormice

The Dormouse is protected under the Wildlife and Countryside Protection act 1981 (amended) and the conservation of Habitats and species Regulations 2010. The deliberate capture, disturbance, injury or killing of Dormice is prohibited as is damaging, destroying any place used by Dormice for shelter or breeding, whether they are present or not. Reckless disturbance or obstruction of places used for shelter is also a criminal offence.

6. Policy

National Planning Policy Framework (NPPF) (Dec 2023)

Habitats and biodiversity

180. Planning policies and decisions should contribute to and enhance the natural and local environment by:

- a) protecting and enhancing valued landscapes, sites of biodiversity or geological value and soils (in a manner commensurate with their statutory status or identified quality in the development plan);
- b) recognising the intrinsic character and beauty of the countryside, and the wider benefits from natural capital and ecosystem services – including the economic and other benefits of the best and most versatile agricultural land, and of trees and woodland;
- c) maintaining the character of the undeveloped coast, while improving public access to it where appropriate;
- d) minimising impacts on and providing net gains for biodiversity, including by establishing coherent ecological networks that are more resilient to current and future pressures;
- e) preventing new and existing development from contributing to, being put at unacceptable risk from, or being adversely affected by, unacceptable levels of soil, air, water or noise pollution or land instability. Development should, wherever possible, help to improve local environmental conditions such as air and water quality, taking into account relevant information such as river basin management plans; and
- f) remediating and mitigating despoiled, degraded, derelict, contaminated and unstable land, where appropriate.

181. Plans should: distinguish between the hierarchy of international, national and locally designated sites; allocate land with the least environmental or amenity value, where consistent with other policies in this Framework⁶²; take a strategic approach to maintaining and enhancing networks of habitats and green infrastructure; and plan for the enhancement of natural capital at a catchment or landscape scale across local authority boundaries.

182. Great weight should be given to conserving and enhancing landscape and scenic beauty in National Parks, the Broads and Areas of Outstanding Natural Beauty which have the highest status of protection in relation to these issues. The conservation and enhancement of wildlife and cultural heritage are also important considerations in these areas, and should be given great weight in National Parks

185. To protect and enhance biodiversity and geodiversity, plans should:

- a) Identify, map and safeguard components of local wildlife-rich habitats and wider ecological networks, including the hierarchy of international, national and locally designated sites of importance for biodiversity⁶⁵; wildlife corridors and stepping stones that connect them; and areas identified by national and local partnerships for habitat management, enhancement, restoration or creation⁶⁶; and
- b) promote the conservation, restoration and enhancement of priority habitats, ecological networks and the protection and recovery of priority species; and identify and pursue opportunities for securing measurable net gains for biodiversity.

186. When determining planning applications, local planning authorities should apply the following principles:

- a) if significant harm to biodiversity resulting from a development cannot be avoided (through locating on an alternative site with less harmful impacts), adequately mitigated, or, as a last resort, compensated for, then planning permission should be refused;
- b) development on land within or outside a Site of Special Scientific Interest, and which is likely to have an adverse effect on it (either individually or in combination with other developments), should not normally be permitted. The only exception is where the benefits of the development in the location proposed clearly outweigh both its likely impact on the features of the site that make it of special scientific interest, and any broader impacts on the national network of Sites of Special Scientific Interest;
- c) development resulting in the loss or deterioration of irreplaceable habitats (such as ancient woodland and ancient or veteran trees) should be refused, unless there are wholly exceptional reasons⁶⁷ and a suitable compensation strategy exists; and
- d) development whose primary objective is to conserve or enhance biodiversity should be supported; while opportunities to improve biodiversity in and around developments should be integrated as part of their design, especially where this can secure measurable net gains for biodiversity or enhance public access to nature where this is appropriate.

187. The following should be given the same protection as habitats sites:

- a) potential Special Protection Areas and possible Special Areas of Conservation;
- b) listed or proposed Ramsar sites⁶⁸; and
- c) sites identified, or required, as compensatory measures for adverse effects on habitats sites, potential Special Protection Areas, possible Special Areas of Conservation, and listed or proposed Ramsar sites.

188. The presumption in favour of sustainable development does not apply where the plan or project is likely to have a significant effect on a habitats site (either alone or in combination with other plans or projects), unless an appropriate assessment has concluded that the plan or project will not adversely affect the integrity of the habitats site.

The UK Post 2010 Biodiversity Framework

“The purpose of this UK Biodiversity Framework is to set a broad enabling structure for action across the UK between now and 2020:

- To set out a shared vision and priorities for UK-scale activities, in a framework jointly owned by the four countries, and to which their own strategies will contribute.
- To identify priority work at a UK level which will be needed to help deliver the Aichi targets and the EU Biodiversity Strategy.
- To facilitate the aggregation and collation of information on activity and outcomes across all countries of the UK, where the four countries agree this will bring benefits compared to individual country work. iv. To streamline governance arrangements for UK-scale activity.”

The tools and works which were previously carried out under the UK Biodiversity Action Plan (UK BAP) remain in place and in use but they are now focused at country level.

Herefordshire Local Plan – Core Strategy 2011 - 2031

LD2 – Biodiversity and geodiversity – requires development proposals to conserve, restore and enhance the biodiversity and geodiversity assets of Herefordshire. This is achieved through the retention and protection of nature conservation sites and habitats, and important species in accordance with their status, prioritising European sites and species.

LD3 – Green infrastructure encourages development proposals to protect, manage and plan for the “preservation of existing and delivery of new green infrastructure” with the aim of fulfilling the three listed criteria; identification and retention of existing green infrastructure corridors and linkages; provision of on-site green infrastructure with enhancement where possible and integration to and connection with the surrounding green infrastructure network.

Protected Species and Lighting (Dark Skies) (DEFRA-NPPF 2013/18)

- a) At no time shall any external lighting except in relation to safe use of the approved or existing buildings be installed or operated in association with the approved development and no permanently illuminated external lighting shall be operated at any time, without the written approval of this local planning authority.
- b) No external lighting should illuminate any biodiversity enhancement, boundary feature, highway corridors or adjacent habitats.

All lighting installed shall demonstrate compliance with latest best practice guidance relating to lighting and protected species-wildlife available from the Institution of Lighting Professionals

7. Conclusions

An ecological assessment comprising of a desk study and site visit has been conducted at the above site SO 454 519 HBRC confirmed that there are legally protected species of conservation concern within the 1km search of the site.

Further to the assessment of the site and results as identified within this survey it is concluded that there is a minimal risk of disturbance to protected species. The initiation of a Biodiversity Enhancement Plan will be of value to this area.

The site will constitute a “Net gain” and the development of new fauna and flora will constitute enrichment for the area and as time passes it will continue to gain conservational value.

8. Recommendations

No external lighting will be used on boundaries so that it will not affect the foraging opportunities for the transitory bat species recorded locally, current lighting is to be altered from floodlighting to utilise more sensitive design techniques.

New bat boxes should be incorporated within the proposal and provide for various species.

New bird boxes should be incorporated within the proposal

Construction of hibernacula and habitat piles should be made and the erection of bug hotels/insect boxes would also help increase the invertebrate population and increase food sources for other species.

Addition of a hedgehog box should be included and any new boundaries will have hedgehog free access.

Ecological clerk of works should carry out a walk over prior to start, a badger check is to be carried out at this time.

9 Biodiversity Enhancements

All local authorities have a statutory duty to assess the biodiversity implications and to ensure all site attain a “net gain” to the local environment and is a major influence upon a site delivering sustainable development. Biodiversity enhancement should be tailored specifically to each individual site, achieving a high standard and gaining the best options for the individual site and the wider region. The National Planning Policy Framework and any specific local policies should feed into all findings from the initial ecological survey and any species-specific surveys and findings/mitigation.

Features are:-

- Habitat and species present
- Habitats and Species of Principle Importance
- UK and Local Action Plan species and habitats
- Statutory and Non statutory conservation sites
- Environmental Corridors linking habitats, allowing species movement

Impacts upon Biodiversity are far reaching and can often act together to increase the affect upon a particular site, these can include: -

- Direct loss or damage of an areas
- Fragmentation and isolation due to disturbance of an existing environmental corridor
- Reduction of resources available for species
- Alteration of existing management regimes to a less conducive state
- General disturbance including noise, light, dust etc.
- Pollution of soil, air, water and light

Biodiversity impacts are: -

- Direct /indirect
- Short term/long term
- Permanent/temporary
- Cumulative

Objective 1

Maintain, protect and enhance all existing ecological features.

The only ecological feature on site is the juvenile hedgerow, during the construction phase this area is to be fenced off from construction traffic, this exclusion zone will protect this environmental corridor and any species that use it will remain unaffected. Within these areas no excavation, construction traffic, storage of site materials or alteration of ground levels should occur. This should also include the mature trees on sites external margin within adjacent field. All hedgerows will continue to be managed to increase their ecological value on site, the hedges are to be managed as wildlife corridors, these linear features are vital to a number of other important species.

The hedgerows are to be maintained on a bi-annual basis to increase production of fruit and blossom and therefore will increase the ecological value of this feature. Cutting is to take place late in the season to allow all wildlife to take full advantage of fruit and nuts on the hedges. The height will be allowed to increase to approximately 2 m over time subject to visibility requirements of access.

Protection of general nocturnal habitat

Sensitive positioning of lighting to avoid any spill onto hedgerows and general boundaries surrounding the buildings. Measures include -

Angle of lighting: avoidance of direct lighting and light spill onto areas of habitat that are of importance as commuting pathways and/or foraging areas.

Type of lighting: studies have shown that light sources emitting higher amounts of UV light have a greater impact to wildlife. Use of narrow-spectrum bulbs that avoid white and blue wavelengths are likely to reduce the number of species impacted by the lighting.

Reduce the height of lighting columns to avoid unnecessary light spill.

Objective 2

Create a variety of habitats to improve the potential for local biodiversity of the area.

The planting of additional mixed native hedging with hedgerow trees will improve biodiversity of area and connectivity,

New Native Hedge

BS 3936 Nursery Stock

The mixed species native hedge will be planted in double rows 15cm apart, 30cm apart within the rows. 1 + 1 60/80cm transplants will be used with a standard 45cm spiral guards. A 1m weed free strip will be initiated and maintained throughout the establishment period, during this period a slow-release fertilizer will also be applied.

Species to include: -

Acer campestre	600 – 800mm, BR 10%
Corylus avellana	600 – 800mm, BR 20%
Cornus sanguinea	600 – 800mm, BR 10%
Crataegus monogyna	600 – 800mm, BR 40%
Ilex aquifolium	400 – 600mm, 2L. 10%
Prunus spinosa	600 – 800mm, BR 10%

Hedgerow Tree Planting

New Tree Planting – to be locate around the margins of site within hedge line.

Acer Campestre(Field Maple) 8-10 feathered RBr x 2

900mm x 900mm x 600mm tree pits. Planting in accordance with BS 5845:2014 Trees; From Nursery to Independence. Backfilling with 10 litres of peat free compost and approved topsoil, 10g approved slow-release fertilizer, watering tubes, staking, and tying with 1 tall stake and clearly marked to avoid hedge cutting operations. Sides and bottoms to be scarified and broken up to a depth of 150mm.

Native Hedge Re-enforcement Planting

BS 3936 Nursery Stock /specifications for trees and shrubs.

Any gaps within the existing hedge line will be planted up using the following species list

The mixed species native hedge will be planted in double rows 15cm apart, 30cm apart within the rows. 1 + 1 60/80cm transplants will be used with a standard 45cm spiral guards. A 1m weed free strip will be initiated and maintained throughout the establishment period, during this period a slow-release fertilizer will also be applied.

Species to be include: - See Native hedge list above

Objective 3

Additional Biodiversity Enhancements.

Bird Enhancements.

2 x Schwegler 1B 32mm Nest box.

The nest box can be attached to a mature trees around site margins using an aluminium nail or by hanging over a branch. Designed to attract Great, Blue, Marsh, Coal and Crested Tit, Redstart, Nuthatch, Collared and Pied Flycatcher, Wryneck, Tree and House Sparrow and bats.



1 x Schwegler 1SP Sparrow Terrace –

Provides housing for 3 sparrow families, to be erected under the eaves on the northeast side of the build.



Bat Enhancements.

2x Bat box

To be located at least 4m above ground preferably south or S/E facing for summer maternity roost where possible. Exact location can be decided upon on site



Insect Enhancements.

Insects

WoodStone Insect Block– Used by ladybirds, lacewings and solitary bees x 2



General Enhancements.

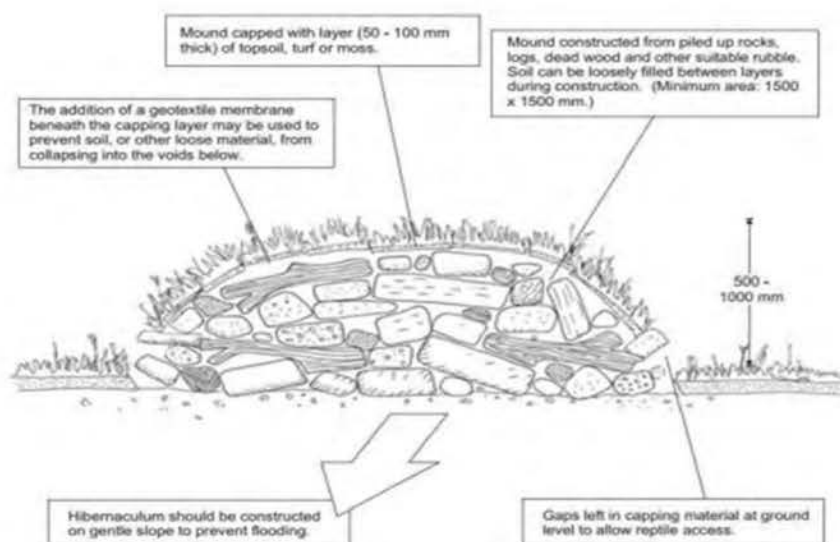
Hedgehogs

Hedgehog nest box- Position in a quiet area on floor and cover with leaves x1



Hibernacula

Minimum of 1 be built on site by hand, along hedge line margins, exact locations to be decided with the Ecological Clerk of the Works



Biodiversity Enhancement Plan

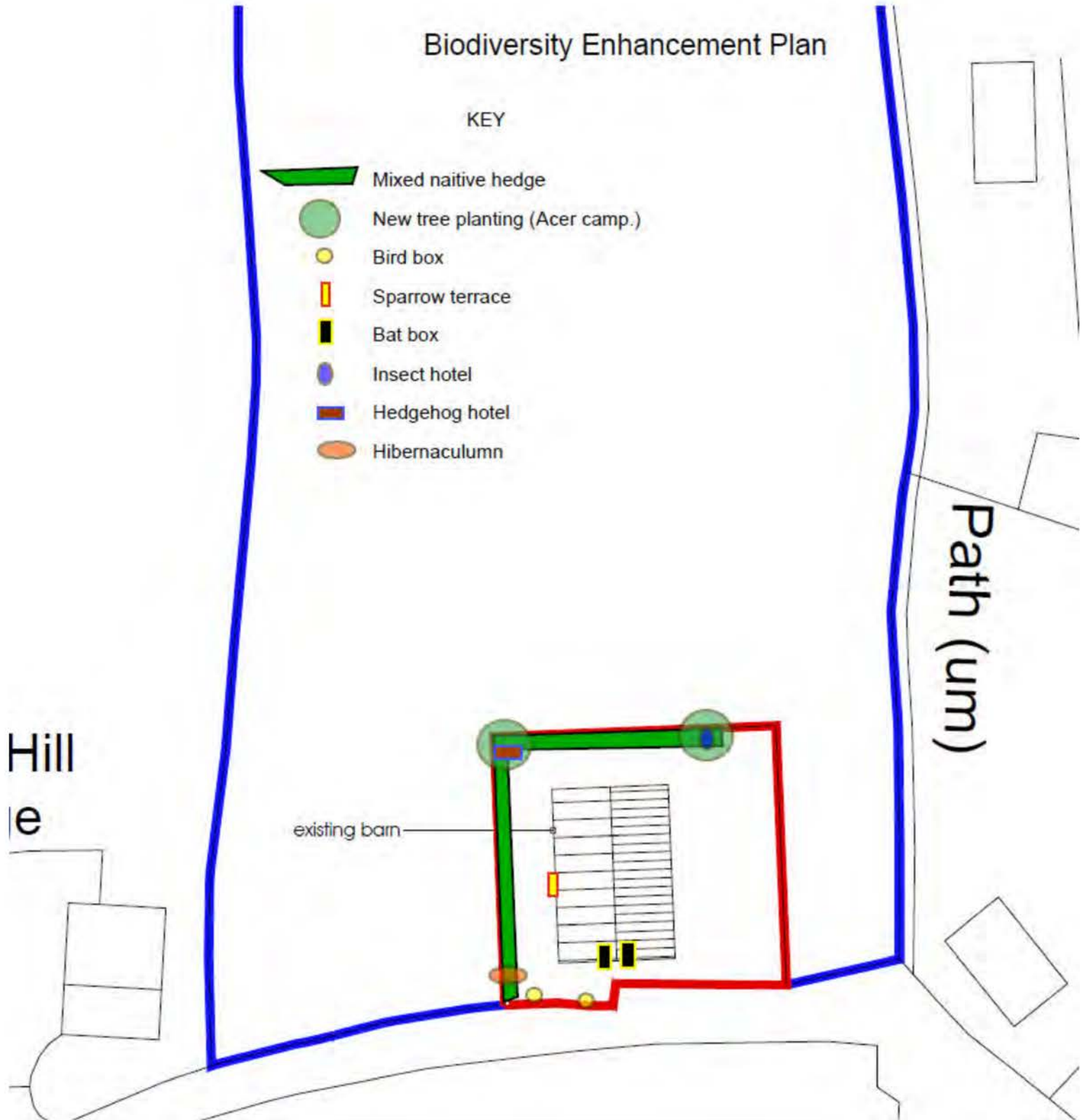
KEY

- Mixed native hedge
- New tree planting (Acer camp.)
- Bird box
- Sparrow terrace
- Bat box
- Insect hotel
- Hedgehog hotel
- Hibernaculum

Hill
e

Path (um)

existing barn

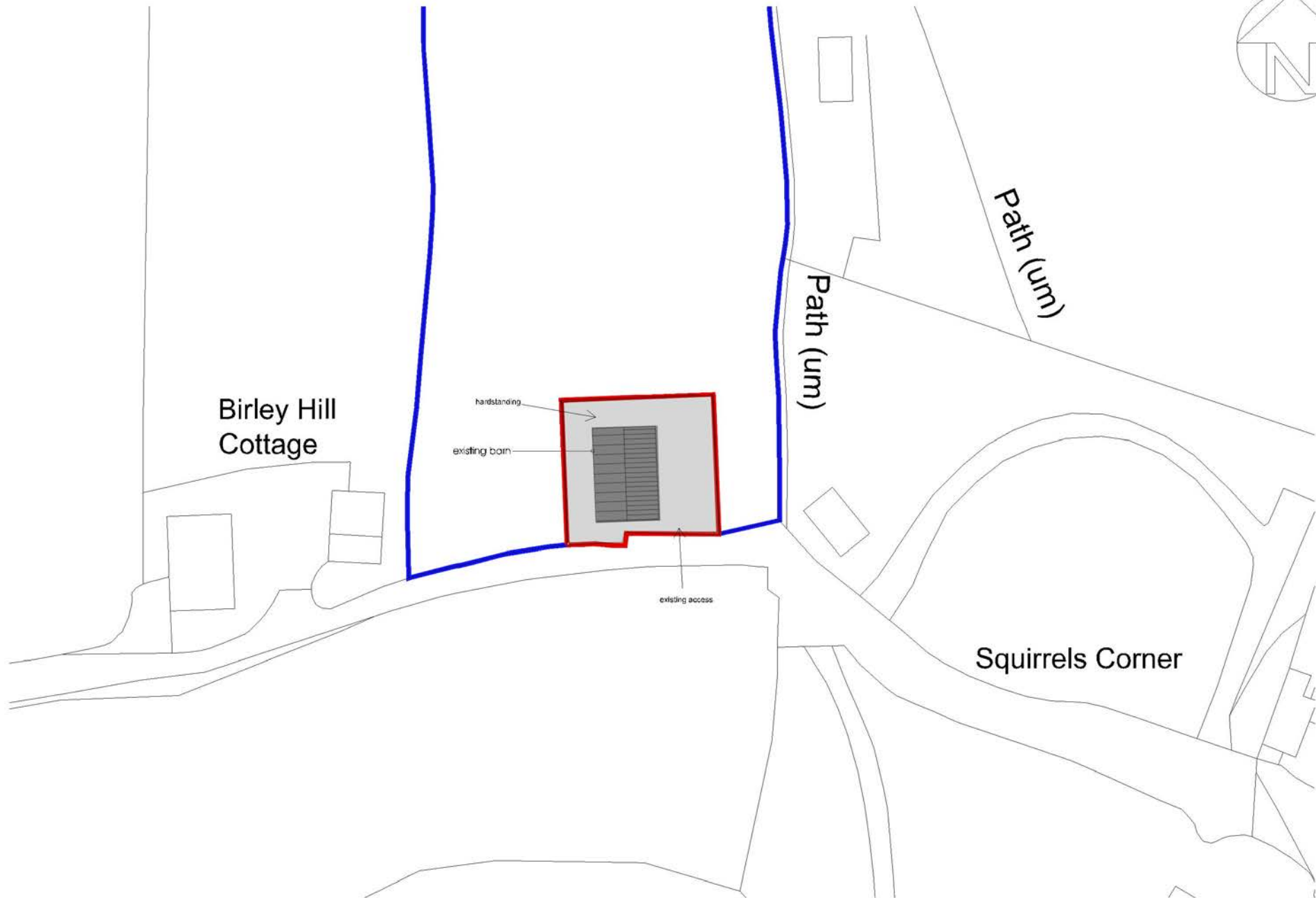


Appendices

Site Plan

HBRC Recorded Species List

Species Map

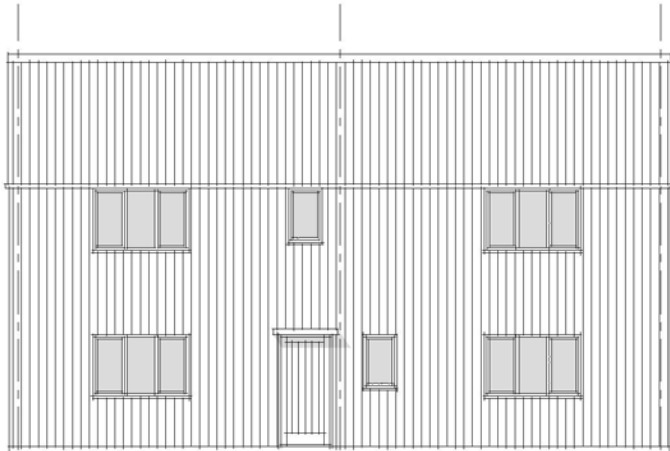


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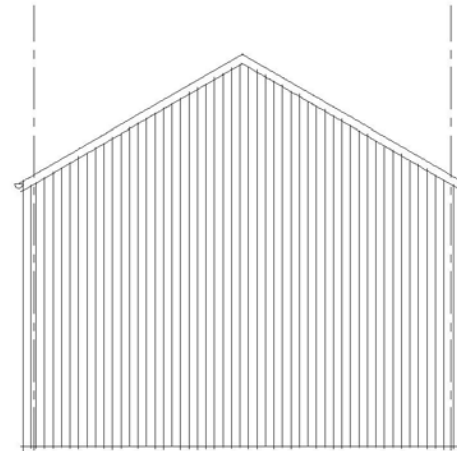
site plan

project.
Proposed barn conversion Birley Hill, Bush Bank, Herefordshire - Mr T Colton

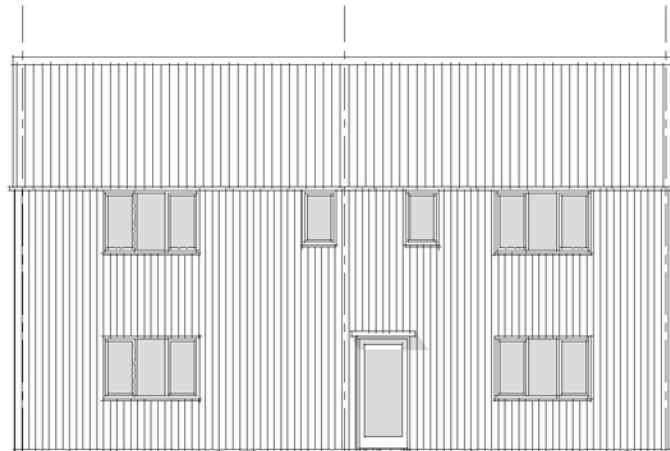
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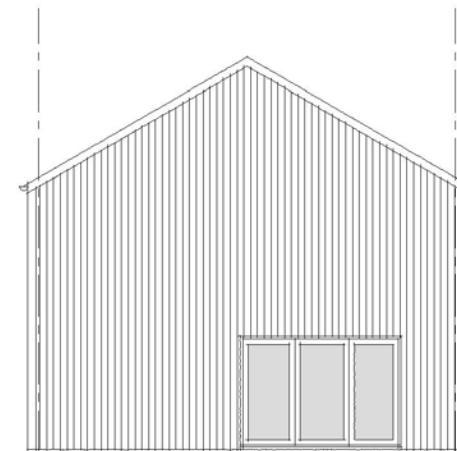
east elevation



north elevation



west elevation



south elevation

elevations 2

Search Location	Grid Reference
Bush bank	SO4542651902

S1							
Species Name	Grid Reference	Date	Abundance	Record/Sample Type	Site Name	Dataset ID	Lists
<i>Athene noctua</i> (Little Owl)	SO4552	4 records, between 05/05/2000 and 27/05/2002	1 Present	Field record/Field Observation	Bushbank, Canon Pyon,	D0003/006/01 , D0003/008/01	Bern2, CITES-A, GBNNSIP, HBAPCC
<i>Athene noctua</i> (Little Owl)	SO4550	22/04/2010	1 Present	Field record/Field Observation	Canon Pyon Parish; Canon Pyon	D0003/016/01	Bern2, CITES-A, GBNNSIP, HBAPCC
<i>Capreolus capreolus</i> (Roe Deer)	SO450520 (Supplied by Original Recorder)	23/01/2010	1 Dead	Field Observation	Birley with Upper Hill Parish; Bush Bank A4110	D0013/008/01	Bern3, HBAPCC
<i>Carduelis carduelis</i> (Goldfinch)	SO448523	12/05/2004	1 Pair	Field record/Field Observation	Knapton,	D0003/010/01	Bern2
<i>Carduelis carduelis</i> (Goldfinch)	SO45Q (Supplied by Original Recorder)	04/09/2010	c20 Present	Field Observation	SO45 Tetrads; Westhope	D0009/023/01	Bern2
<i>Chiroptera</i> (Bat)	SO456525	28/06/1989	61 Present	Field Observation	Ladye Grove [SWS]	D0019/002/01	Bern2, Bonn2, CHS2, HBAPCC, HBAPPS, HDir4, WCA5
<i>Chiroptera</i> (Bat)	SO456524 (Derived from Site Name)	28/06/1989	61 Present	Field record/Field Observation	Lye Court	D0019/009/01	Bern2, Bonn2, CHS2, HBAPCC, HBAPPS, HDir4, WCA5
<i>Chiroptera</i> (Bat)	SO450515 (Supplied by Original Recorder)	30/10/2014	1 Droppings	Field Observation	King's Pyon Parish; Lokhandar, Bush Bank	D0006/016/01	Bern2, Bonn2, CHS2, HBAPCC, HBAPPS, HDir4, WCA5
<i>Chloris chloris</i> (Greenfinch)	SO45Q (Supplied by Original Recorder)	04/09/2010	c30 Present	Field Observation	SO45 Tetrads; Westhope	D0009/023/01	Bern2, RL-EN, UKBR
<i>Chloris chloris</i> (Greenfinch)	SO4550	12/02/2013	1 Male	Field record/Field Observation	Canon Pyon Parish; Canon Pyon	D0003/019/01	Bern2, RL-EN, UKBR
<i>Delichon urbicum</i> (House Martin)	SO45Q (Supplied by Original Recorder)	04/09/2010	100+ Present	Field Observation	SO45 Tetrads; Westhope	D0009/023/01	Bern2, RL-VU, UKBR, WBA
<i>Delichon urbicum</i> (House Martin)	SO4651	03/09/2010	20 Present	Field record/Field Observation	Canon Pyon Parish; Westhope	D0003/016/01	Bern2, RL-VU, UKBR, WBA
<i>Dendrocopos major</i> (Great Spotted Woodpecker)	SO448523	12/05/2004	1 Present	Field record/Field Observation	Knapton,	D0003/010/01	Bern2

Species Name	Grid Reference	Date	Abundance	Record/Sample Type	Site Name	Dataset ID	Lists
<i>Dendrocopos major</i> (Great Spotted Woodpecker)	SO4550	4 records, between 01/01/2010 and 04/06/2013	1 Present; 1 Heard Only	Field record/Field Observation	Canon Pyon Parish; Canon Pyon	D0003/016/01 , D0003/018/01 , D0003/019/01	Bern2
<i>Dendrocopos major</i> (Great Spotted Woodpecker)	SO4452	07/06/2012	1 Present	Field record/Field Observation	King's Pyon Parish; Knapton	D0003/018/01	Bern2
<i>Dryobates minor</i> (Lesser Spotted Woodpecker)	SO4550	3 records, between 01/01/2011 and 04/06/2013	1 Female; 1 Present; 1 Heard Only	Field record/Field Observation	Canon Pyon Parish; Canon Pyon	D0003/017/01 , D0003/018/01 , D0003/019/01	BAP, Bern2, HBAPCC, HBAPSR, RL-EN, S41, UKBR, WBR
<i>Emberiza citrinella</i> (Yellowhammer)	SO4550	2 records, between 06/05/2012 and 20/02/2013	1 Male	Field record/Field Observation	Canon Pyon Parish; Canon Pyon	D0003/018/01 , D0003/019/01	BAP, Bern2, HBAPCC, S41, UKBR, WBR
<i>Erinaceus europaeus</i> (Hedgehog)	SO453514 (Supplied by Original Recorder)	4 records, between 26/08/2006 and 11/07/2012	1 Dead	Field Observation	Birley with Upper Hill Parish; Westhope; On A4110, Bushbank; On road, Westhope; Bush Bank	D0005/001/01 , D0052/001/01 , D0013/010/01	BAP, Bern3, HBAPCC, HBAPPS, HBAPSR, RL-VU, S41
<i>Erithacus rubecula</i> (Robin)	SO4550	28/06/2010	Present Breeding (Estimate)	Field record/Field Observation	Canon Pyon Parish; Canon Pyon	D0003/016/01	Bern2
<i>Falco subbuteo</i> (Hobby)	SO4550	15/08/2012	1 Present	Field record/Field Observation	Canon Pyon Parish; Canon Pyon	D0003/018/01	Bern2, Bonn2, CITES-A, HBAPCC, WBA, WCA1.1
<i>Falco subbuteo</i> (Hobby)	SO4651	27/08/2012	1 Present	Field record/Field Observation	Canon Pyon Parish; Westhope	D0003/018/01	Bern2, Bonn2, CITES-A, HBAPCC, WBA, WCA1.1
<i>Falco tinnunculus</i> (Kestrel)	SO4552	20/12/2007	1 Present	Field Observation	Bushbank, Canon Pyon,	D0003/013/01	Bern2, Bonn2, CITES-A, HBAPCC, HBAPPS, RL-VU, UKBA, WBR
<i>Falco tinnunculus</i> (Kestrel)	SO45Q (Supplied by Original Recorder)	04/09/2010		Field Observation	SO45 Tetrads; Westhope	D0009/023/01	Bern2, Bonn2, CITES-A, HBAPCC, HBAPPS, RL-VU, UKBA, WBR
<i>Falco tinnunculus</i> (Kestrel)	SO4550	2 records, between 03/07/2011 and 17/01/2012	1 Present; 2 Present	Field record/Field Observation	Canon Pyon Parish; Canon Pyon	D0003/017/01 , D0003/018/01	Bern2, Bonn2, CITES-A, HBAPCC, HBAPPS, RL-VU, UKBA, WBR
<i>Fringilla montifringilla</i> (Brambling)	SO448523	2 records, between 03/01/2008 and 18/01/2008	3 Present; 1 Male	Field record/Field Observation	Knapton,	D0003/014/01	WCA1.1
<i>Hirundo rustica</i> (Swallow)	SO45Q (Supplied by Original Recorder)	04/09/2010	c80 Present	Field Observation	SO45 Tetrads; Westhope	D0009/023/01	Bern2, WBA

Species Name	Grid Reference	Date	Abundance	Record/Sample Type	Site Name	Dataset ID	Lists
<i>Hirundo rustica</i> (Swallow)	SO4651	03/09/2010	10 Present	Field record/Field Observation	Canon Pyon Parish; Westhope	D0003/016/01	Bern2, WBA
<i>Hirundo rustica</i> (Swallow)	SO4550	3 records, between 03/04/2011 and 04/10/2013	1 Present; 20 Present; 2 Present	Field record/Field Observation	Canon Pyon Parish; Canon Pyon	D0003/017/01 , D0003/019/01	Bern2, WBA
<i>Hyacinthoides non-scripta</i> (Bluebell)	SO45K (Supplied by Original Recorder)	3 records, between 1994 and 09/05/2016	Present	Field record/Field Observation	King's Pyon Parish; Bush Bank; Canon Pyon Parish; Canon Pyon	D0054/001/01 , D0016/002/01 , D0009/029/01	HBAPCC, WCA8
<i>Hyacinthoides non-scripta</i> (Bluebell)	SO45Q (Supplied by Original Recorder)	2 records, between 1987 and 1999	Present	Field record/Field Observation	SO45 Tetrads; Westhope; Westhope	D0054/001/01 , D0016/001/01	HBAPCC, WCA8
<i>Hyacinthoides non-scripta</i> (Bluebell)	SO45R	01/05/1978	Present	Field record/Field Observation	Upper Hill	D0016/001/01	HBAPCC, WCA8
<i>Hyacinthoides non-scripta</i> (Bluebell)	SO45L (Supplied by Original Recorder)	18/07/1989	Present	Field record/Field Observation	SO45 Tetrads; Birley	D0016/003/01	HBAPCC, WCA8
<i>Hyacinthoides non-scripta</i> (Bluebell)	SO453515 (Estimated (Centroid of Site))	10/05/2000	1 Present	Field Observation	Birley with Upper Hill Parish; Sheldon Farm, Bush Bank	D0006/002/01	HBAPCC, WCA8
<i>Hyacinthoides non-scripta</i> (Bluebell)	SO457520 (Supplied by Original Recorder)	14/09/2011		Field Observation	SO45 Tetrads; Birley	D0009/024/01	HBAPCC, WCA8
<i>Linaria cannabina</i> (Linnet)	SO45Q (Supplied by Original Recorder)	04/09/2010	c20 Present	Field Observation	SO45 Tetrads; Westhope	D0009/023/01	BAP, Bern2, HBAPCC, HBAPPS, RL-NT, S41, UKBR, WBR
<i>Linaria cannabina</i> (Linnet)	SO4550	01/05/2013	1 Present	Field record/Field Observation	Canon Pyon Parish; Canon Pyon	D0003/019/01	BAP, Bern2, HBAPCC, HBAPPS, RL-NT, S41, UKBR, WBR
<i>Milvus milvus</i> (Red Kite)	SO4552	2 records, between 22/02/2009 and 28/01/2013	1 Present	Field record/Field Observation	Bushbank, Canon Pyon, Herefordshire; Birley with Upper Hill Parish; Bushbank, Canon Pyon	D0003/015/01 , D0003/019/01	BDir1, Bonn2, CITES-A, WBA, WCA1.1, WCA9

Species Name	Grid Reference	Date	Abundance	Record/Sample Type	Site Name	Dataset ID	Lists
<i>Milvus milvus</i> (Red Kite)	SO4550	4 records, between 18/05/2010 and 09/07/2013	1 Present	Field record/Field Observation	Canon Pyon Parish; Canon Pyon	D0003/016/01 , D0003/017/01 , D0003/019/01	BDir1, Bonn2, CITES-A, WBA, WCA1.1, WCA9
<i>Milvus milvus</i> (Red Kite)	SO4651	14/12/2010	1 Present	Field record/Field Observation	Canon Pyon Parish; Westhope	D0003/016/01	BDir1, Bonn2, CITES-A, WBA, WCA1.1, WCA9
<i>Motacilla alba yarrellii</i> (Pied Wagtail)	SO4651	02/12/2013	6 Present	Field record/Field Observation	Canon Pyon Parish; Westhope	D0003/019/01	Bern2
<i>Muscardinus avellanarius</i> (Hazel Dormouse)	SO455521 (Derived from Site Name)	28/10/1977	Present	Field record/Field Observation	Limekiln Grove [SWS]	D0045/001/01	BAP, Bern3, CHS2, HBAPCC, HBAPPS, HDir4, RL-VU, S41, WCA5
<i>Muscardinus avellanarius</i> (Hazel Dormouse)	SO458517	1991	1 Present	Field Observation	Canon Pyon Parish; Westhope Wood, Canon Pyon	D0031/001/01	BAP, Bern3, CHS2, HBAPCC, HBAPPS, HDir4, RL-VU, S41, WCA5
<i>Muscicapa striata</i> (Spotted Flycatcher)	SO4550	01/06/2010	Present Breeding (Estimate)	Field record/Field Observation	Canon Pyon Parish; Canon Pyon	D0003/016/01	BAP, Bern2, Bonn2, HBAPCC, HBAPPS, S41, UKBR, WBR
<i>Mustela putorius</i> (Polecat)	SO4652	January 1983	Present	Field record/Field Observation	Westhope Hill SWS	D0027/001/01	BAP, Bern3, CHS4, HBAPCC, HBAPPS, HDir5, S41
<i>Mustela putorius</i> (Polecat)	SO448525	08/04/1992	1 Present	Field record/Field Observation	Knapton Green	D0019/010/01	BAP, Bern3, CHS4, HBAPCC, HBAPPS, HDir5, S41
<i>Mustela putorius</i> (Polecat)	SO4551	02/02/2017	Present Alive (Estimate)	Field record/Field Observation	Canon Pyon Parish; Bush Bank	D0005/011/01	BAP, Bern3, CHS4, HBAPCC, HBAPPS, HDir5, S41
<i>Periparus ater</i> (Coal Tit)	SO4652	02/07/2011	2 Adult; 3 Juvenile	Field record/Field Observation	Canon Pyon Parish; Westhope Common	D0003/017/01	Bern2, WBA
<i>Phoenicurus phoenicurus</i> (Redstart)	SO4652	02/07/2011	1 Male	Field record/Field Observation	Canon Pyon Parish; Westhope Common	D0003/017/01	Bern2, HBAPCC, UKBA, WBA
<i>Picus viridis</i> (Green Woodpecker)	SO4651	2 records, between 18/04/2011 and 20/03/2013	Present; 1 Present	Field record/Field Observation	Canon Pyon Parish; Woods by Westhope Road;Westhope	D0070/001/01 , D0003/019/01	Bern2, HBAPCC, WBA
<i>Picus viridis</i> (Green Woodpecker)	SO4550	21/04/2013	1 Present	Field record/Field Observation	Canon Pyon Parish; Canon Pyon	D0003/019/01	Bern2, HBAPCC, WBA
<i>Pipistrellus pipistrellus</i> (Common Pipistrelle)	SO452522	20/07/2017	Present	Field record/Field Observation	Birley with Upper Hill Parish; Westhope transect	D0013/015/01	Bonn2, CHS2, HDir4, WCA5
<i>Pipistrellus pipistrellus</i> (Common Pipistrelle)	SO454524	20/07/2017	Present	Field record/Field Observation	Birley with Upper Hill Parish; Westhope transect	D0013/015/01	Bonn2, CHS2, HDir4, WCA5

Species Name	Grid Reference	Date	Abundance	Record/Sample Type	Site Name	Dataset ID	Lists
<i>Pipistrellus pipistrellus</i> (Common Pipistrelle)	SO457525	20/07/2017	Present	Field record/Field Observation	Birley with Upper Hill Parish; Westhope transect	D0013/015/01	Bonn2, CHS2, HDir4, WCA5
<i>Regulus regulus</i> (Goldcrest)	SO4651	2 records, between 05/01/2013 and 20/03/2013	2 Present; 1 Present	Field record/Field Observation	Canon Pyon Parish; Westhope	D0003/019/01	Bern2, WBA
<i>Sitta europaea</i> (Nuthatch)	SO4652	02/07/2011	Present Breeding (Estimate)	Field record/Field Observation	Canon Pyon Parish; Westhope Common	D0003/017/01	Bern2
<i>Spinus spinus</i> (Siskin)	SO4550	06/03/2011	2 Male; 2 Female	Field record/Field Observation	Canon Pyon Parish; Canon Pyon	D0003/017/01	Bern2
<i>Spinus spinus</i> (Siskin)	SO4652	12/07/2011	1 Present	Field record/Field Observation	Canon Pyon Parish; Westhope Common	D0003/017/01	Bern2
<i>Strix aluco</i> (Tawny Owl)	SO448523	27/12/2007	1 Present	Field Observation	Knapton,	D0003/013/01	Bern2, CITES-A, RL-NT, UKBA
<i>Strix aluco</i> (Tawny Owl)	SO4552	11/06/2007	1 Present	Field Observation	Bushbank, Canon Pyon,	D0003/013/01	Bern2, CITES-A, RL-NT, UKBA
<i>Strix aluco</i> (Tawny Owl)	SO4550	20/10/2012	1 Present	Field record/Field Observation	Canon Pyon Parish; Canon Pyon	D0003/018/01	Bern2, CITES-A, RL-NT, UKBA
<i>Turdus iliacus</i> (Redwing)	SO4651	2 records, between 01/12/2012 and 15/03/2013	30 Present; 21 Present	Field record/Field Observation	Canon Pyon Parish; Westhope	D0003/018/01 , D0003/019/01	BDir2.2, HBAPCC, RL-CR, UKBA, WBA, WCA1.1
<i>Turdus pilaris</i> (Fieldfare)	SO4651	4 records, between 30/10/2012 and 02/12/2013	19 Present; 65 Present; 79 Present	Field record/Field Observation	Canon Pyon Parish; Westhope	D0003/018/01 , D0003/019/01	BDir2.2, HBAPCC, RL-PX, UKBR, WBA, WCA1.1
<i>Turdus pilaris</i> (Fieldfare)	SO4550	12/03/2013	15 Feeding	Field record/Field Observation	Canon Pyon Parish; Canon Pyon	D0003/019/01	BDir2.2, HBAPCC, RL-PX, UKBR, WBA, WCA1.1
<i>Tyto alba</i> (Barn Owl)	SO448523	4 records, between 20/12/2003 and 17/02/2009	1 Present	Field record/Field Observation	Knapton,; Knapton, Herefordshire	D0003/009/01 , D0003/010/01 , D0003/015/01	Bern2, CITES-A, HBAPCC, HBAPPS, WBA, WCA1.1, WCA9
<i>Tyto alba</i> (Barn Owl)	SO4552	4 records, between 08/02/2006 and 03/12/2011	1 Present	Field record/Field Observation	Bushbank, Canon Pyon,; Birley with Upper Hill Parish; Bushbank, Canon Pyon	D0003/012/01 , D0003/013/01 , D0003/014/01 , D0003/017/01	Bern2, CITES-A, HBAPCC, HBAPPS, WBA, WCA1.1, WCA9
<i>Tyto alba</i> (Barn Owl)	SO4652	01/04/2010	1 Present	Field record/Field Observation	Canon Pyon Parish; Westhope Common	D0003/016/01	Bern2, CITES-A, HBAPCC, HBAPPS, WBA, WCA1.1, WCA9

S2							
Species Name	Grid Reference	Date	Abundance	Record/Sample Type	Site Name	Dataset ID	Lists
<i>Accipiter nisus</i> (Sparrowhawk)	SO448523	25/02/2004	1 Present	Field record/Field Observation	Knapton,	D0003/010/01	Bonn2, CITES-A, RL-NT, UKBA
<i>Accipiter nisus</i> (Sparrowhawk)	SO4652	2 records, between 12/05/2010 and 17/04/2012	1 Present	Field record/Field Observation	Canon Pyon Parish; Yoke Wood	D0003/016/01 , D0003/018/01	Bonn2, CITES-A, RL-NT, UKBA
<i>Accipiter nisus</i> (Sparrowhawk)	SO4550	2 records, between 03/05/2011 and 07/08/2011	1 Female; 1 Male	Field record/Field Observation	Canon Pyon Parish; Canon Pyon	D0003/017/01	Bonn2, CITES-A, RL-NT, UKBA
<i>Alauda arvensis</i> (Skylark)	SO45Q (Supplied by Original Recorder)	2 records, between 04/09/2010 and 16/07/2014	4 Present	Field Observation	SO45 Tetrads; Westhope; Westhope Common	D0009/023/01 , D0009/027/01	BAP, BDir2.2, HBAPCC, HBAPPS, S41, UKBR, WBA
<i>Alauda arvensis</i> (Skylark)	SO4550	4 records, between 01/05/2010 and 14/02/2013	Present; 1 Male	Field record/Field Observation	Canon Pyon Parish; Canon Pyon	D0003/016/01 , D0003/018/01 , D0003/019/01	BAP, BDir2.2, HBAPCC, HBAPPS, S41, UKBR, WBA
<i>Alauda arvensis</i> (Skylark)	SO4652	02/07/2011	20 Breeding	Field record/Field Observation	Canon Pyon Parish; Westhope Common	D0003/017/01	BAP, BDir2.2, HBAPCC, HBAPPS, S41, UKBR, WBA
<i>Amphipyra tragopoginis</i> (Mouse Moth)	SO456525	10/08/1976	1 Adult	Field Observation	Birley with Upper Hill Parish; Ivington - Ladygrove	D0008/008/01	BAP, S41
<i>Buteo buteo</i> (Buzzard)	SO448523	12/05/2004	3 Present	Field record/Field Observation	Knapton,	D0003/010/01	Bonn2, CITES-A, HBAPCC
<i>Coenonympha pamphilus</i> (Small Heath)	SO4552	1980	Present	Field record/Field Observation	Ladye Grove [SWS]	D0027/001/01	BAP, HBAPCC, RL-NT, S41
<i>Cuculus canorus</i> (Cuckoo)	SO4550	8 records, between 24/04/2010 and 06/05/2013	2 Present; 1 Heard Only; 1 Present	Field record/Field Observation	Canon Pyon Parish; Canon Pyon	D0003/016/01 , D0003/017/01 , D0003/019/01	BAP, RL-VU, S41, UKBR, WBR
<i>Cuculus canorus</i> (Cuckoo)	SO4651	20/05/2013	1 Heard Only	Field record/Field Observation	Canon Pyon Parish; Westhope Wood	D0003/019/01	BAP, RL-VU, S41, UKBR, WBR
<i>Diarsia rubi</i> (Small Square-spot)	SO456525	10/08/1976	2 Adult	Field Observation	Birley with Upper Hill Parish; Ivington - Ladygrove	D0008/008/01	BAP, S41
<i>Ecliptopera silaceata</i> (Small Phoenix)	SO456525	10/08/1976	1 Adult	Field Observation	Birley with Upper Hill Parish; Ivington - Ladygrove	D0008/008/01	BAP, S41
<i>Ennomos erosaria</i> (September Thorn)	SO456525	10/08/1976	1 Adult Female	Field Observation	Birley with Upper Hill Parish; Ivington - Ladygrove	D0008/008/01	BAP, S41

Species Name	Grid Reference	Date	Abundance	Record/Sample Type	Site Name	Dataset ID	Lists
<i>Ennomos fuscantaria</i> (Dusky Thorn)	SO456525	10/08/1976	3 Adult	Field Observation	Birley with Upper Hill Parish; Ivington - Ladygrove	D0008/008/01	BAP, S41
<i>Ennomos quercinaria</i> (August Thorn)	SO456525	10/08/1976	1 Adult Female	Field Observation	Birley with Upper Hill Parish; Ivington - Ladygrove	D0008/008/01	BAP, S41
<i>Euphorbia amygdaloides</i> (Wood Spurge)	SO45K (Supplied by Original Recorder)	3 records, between 17/07/1990 and 09/05/2016	Present	Field record/Field Observation	King's Pyon Parish; Bush Bank; Canon Pyon Parish; Canon Pyon	D0054/001/01 , D0016/003/01 , D0009/029/01	CITES-B
<i>Euphorbia amygdaloides</i> (Wood Spurge)	SO45Q (Supplied by Original Recorder)	1999	Present	Field record/Field Observation	SO45 Tetrads; Westhope	D0054/001/01	CITES-B
<i>Euphorbia amygdaloides</i> (Wood Spurge)	SO455521 (Derived from Site Name)	28/10/1977	Present	Field record/Field Observation	Limekiln Grove [SWS]	D0045/001/01	CITES-B
<i>Euphorbia amygdaloides</i> (Wood Spurge)	SO45L (Supplied by Original Recorder)	18/07/1989	Present	Field record/Field Observation	SO45 Tetrads; Birley	D0016/003/01	CITES-B
<i>Euphorbia amygdaloides</i> (Wood Spurge)	SO45R	1990	Present	Field record/Field Observation	Upper Hill	D0016/003/01	CITES-B
<i>Euphorbia amygdaloides</i> (Wood Spurge)	SO453515 (Estimated (Centroid of Site))	10/05/2000	1 Present	Field Observation	Birley with Upper Hill Parish; Sheldon Farm, Bush Bank	D0006/002/01	CITES-B
<i>Euphorbia helioscopia</i> (Sun Spurge)	SO45Q (Supplied by Original Recorder)	2 records, between 1999 and 04/09/2010	Present	Field record/Field Observation	SO45 Tetrads; Westhope	D0054/001/01 , D0009/023/01	CITES-B, GBNNSIP
<i>Euphorbia peplus</i> (Petty Spurge)	SO45K (Supplied by Original Recorder)	2 records, between 1999 and 09/05/2016	Present	Field record/Field Observation	King's Pyon Parish; Canon Pyon Parish; Canon Pyon	D0054/001/01 , D0009/029/01	CITES-B, GBNNSIP
<i>Euphorbia peplus</i> (Petty Spurge)	SO45Q (Supplied by Original Recorder)	2 records, between 1999 and 04/09/2010	Present	Field record/Field Observation	SO45 Tetrads; Westhope	D0054/001/01 , D0009/023/01	CITES-B, GBNNSIP
<i>Galanthus nivalis</i> (Snowdrop)	SO45K (Supplied by Original Recorder)	2 records, between 1999 and 09/05/2016	Present	Field record/Field Observation	King's Pyon Parish; Canon Pyon Parish; Canon Pyon	D0054/001/01 , D0009/029/01	CITES-B, GBNNSIP
<i>Galanthus nivalis</i> (Snowdrop)	SO45Q (Supplied by Original Recorder)	2 records, between 1992 and 1999	Present	Field record/Field Observation	SO45 Tetrads; Westhope; Westhope	D0054/001/01 , D0016/002/01	CITES-B, GBNNSIP
<i>Gallinago gallinago</i> (Snipe)	SO4552	2 records, between 02/02/2006 and 27/02/2006	c.10 Present	Field record/Field Observation	Bushbank, Canon Pyon,	D0003/012/01	BDir2.1, Bonn2, HBAPCC, RL-NT, UKBA, WBA

Species Name	Grid Reference	Date	Abundance	Record/Sample Type	Site Name	Dataset ID	Lists
<i>Hydraecia micacea</i> (Rosy Rustic)	SO456525	10/08/1976	1 Adult	Field Observation	Birley with Upper Hill Parish; Ivington - Ladygrove	D0008/008/01	BAP, S41
<i>Juniperus communis</i> (Juniper)	SO4652 (Derived from Site Name)	1889	Present	Field record/Field Observation	Westhope Hill SWS	D0005/001/01	BAP, RL-NT, S41
<i>Larus canus</i> (Common Gull)	SO4552	22/10/2001	2 Present	Field record/Field Observation	Bushbank, Canon Pyon,	D0003/007/01	BDir2.2, UKBA, WBR
<i>Lasiommata megera</i> (Wall)	SO4552	2 records, between 1976 and 1980	Present	Field record/Field Observation	Ladye Grove [SWS]	D0027/001/01	BAP, BCRM, HBAPCC, RL-NT, S41
<i>Menyanthes trifoliata</i> (Bogbean)	SO45Q (Supplied by Original Recorder)	2 records, between 1987 and 1999	Present	Field record/Field Observation	SO45 Tetrads; Westhope; Westhope	D0054/001/01 , D0016/001/01	CITES-D
<i>Menyanthes trifoliata</i> (Bogbean)	SO45R (Supplied by Original Recorder)	1991	Present	Field record/Field Observation	SO45 Tetrads; Upper Hill	D0016/002/01	CITES-D
<i>Oenanthe fistulosa</i> (Tubular Water-dropwort)	SO45Q	1987	Present	Field record/Field Observation	Westhope	D0016/001/01	BAP, RL-VU, S41
<i>Perdix perdix</i> (Grey Partridge)	SO448523	28/03/2006	2 Present	Field record/Field Observation	Knapton,	D0003/012/01	BAP, BDir2.1, GBNNSIP, HBAPCC, HBAPPS, RL-VU, S41, UKBR, WBR
<i>Pyrrhula pyrrhula</i> (Bullfinch)	SO4550	2 records, between 21/03/2011 and 03/02/2012	2 Present; 1 Present	Field record/Field Observation	Canon Pyon Parish; Canon Pyon	D0003/017/01 , D0003/018/01	BAP, HBAPCC, HBAPPS, HBAPSR, S41, UKBA, WBR
<i>Pyrrhula pyrrhula</i> (Bullfinch)	SO4651	2 records, between 07/02/2013 and 02/12/2013	1 Male; 2 Male; 4 Female	Field record/Field Observation	Canon Pyon Parish; Westhope	D0003/019/01	BAP, HBAPCC, HBAPPS, HBAPSR, S41, UKBA, WBR
<i>Spilosoma lubricipeda</i> (White Ermine)	SO457516	06/06/1996	Present Adult (Estimate)	Field Observation	Canon Pyon Parish; Westhope Common	D0008/028/01	BAP, S41
<i>Spilosoma lutea</i> (Buff Ermine)	SO457516	2 records, between 06/06/1996 and 1997	Present Adult (Estimate); 2 Adult	Field Observation	Canon Pyon Parish; Westhope Common	D0008/029/01 , D0008/028/01	BAP, S41
<i>Sturnus vulgaris</i> (Starling)	SO4550	3 records, between 08/10/2010 and 15/03/2013	40 Present; 2 Present; 200 Present	Field record/Field Observation	Canon Pyon Parish; Canon Pyon	D0003/016/01 , D0003/018/01 , D0003/019/01	BAP, BDir2.2, RL-VU, S41, UKBR, WBR
<i>Timandra comae</i> (Blood-vein)	SO457516	2 records, between July 1996 and August 1996	Present Adult (Estimate)	Field Observation	Westhope Common	D0008/028/01	BAP, S41
<i>Timandra comae</i> (Blood-vein)	SO456525	10/08/1976	1 Adult	Field Observation	Birley with Upper Hill Parish; Ivington - Ladygrove	D0008/008/01	BAP, S41

Species Name	Grid Reference	Date	Abundance	Record/Sample Type	Site Name	Dataset ID	Lists
<i>Turdus philomelos</i> (Song Thrush)	SO4550	3 records, between 02/02/2010 and 20/07/2011	1 Male; Present Breeding (Estimate)	Field record/Field Observation	Canon Pyon Parish; Canon Pyon	D0003/016/01 , D0003/017/01	BAP, BDir2.2, HBAPCC, HBAPPS, S41, UKBA, WBA
<i>Turdus philomelos</i> (Song Thrush)	SO4652	18/06/2012	1 Present	Field record/Field Observation	Canon Pyon Parish; Yoke Wood	D0003/018/01	BAP, BDir2.2, HBAPCC, HBAPPS, S41, UKBA, WBA
<i>Turdus philomelos</i> (Song Thrush)	SO4651	31/10/2013	1 Present	Field record/Field Observation	Canon Pyon Parish; Westhope	D0003/019/01	BAP, BDir2.2, HBAPCC, HBAPPS, S41, UKBA, WBA
<i>Turdus viscivorus</i> (Mistle Thrush)	SO4550	6 records, between 25/09/2011 and 14/02/2013	1 Male; 2 Present	Field record/Field Observation	Canon Pyon Parish; Canon Pyon	D0003/017/01 , D0003/018/01 , D0003/019/01	BDir2.2, RL-VU, UKBR
<i>Tyria jacobaeae</i> (Cinnabar)	SO457516	2 records, between 06/06/1996 and 1997	Present Adult (Estimate)	Field Observation	Canon Pyon Parish; Westhope Common	D0008/029/01 , D0008/028/01	BAP, S41
<i>Vanellus vanellus</i> (Lapwing)	SO4550	8 records, between 16/03/2010 and 08/03/2013	Max.5 Present; 16 Present; 2 Present; 15 Present; 42 Present; 3 Present; 8 Present	Field record/Field Observation	Canon Pyon Parish; Canon Pyon	D0003/016/01 , D0003/017/01 , D0003/018/01 , D0003/019/01	BAP, BDir2.2, Bonn2, HBAPCC, HBAPPS, RL- EN, RL-VU, S41, UKBR, WBR
<i>Vanellus vanellus</i> (Lapwing)	SO4651	15/03/2013	1 Present	Field record/Field Observation	Canon Pyon Parish; Westhope	D0003/019/01	BAP, BDir2.2, Bonn2, HBAPCC, HBAPPS, RL- EN, RL-VU, S41, UKBR, WBR

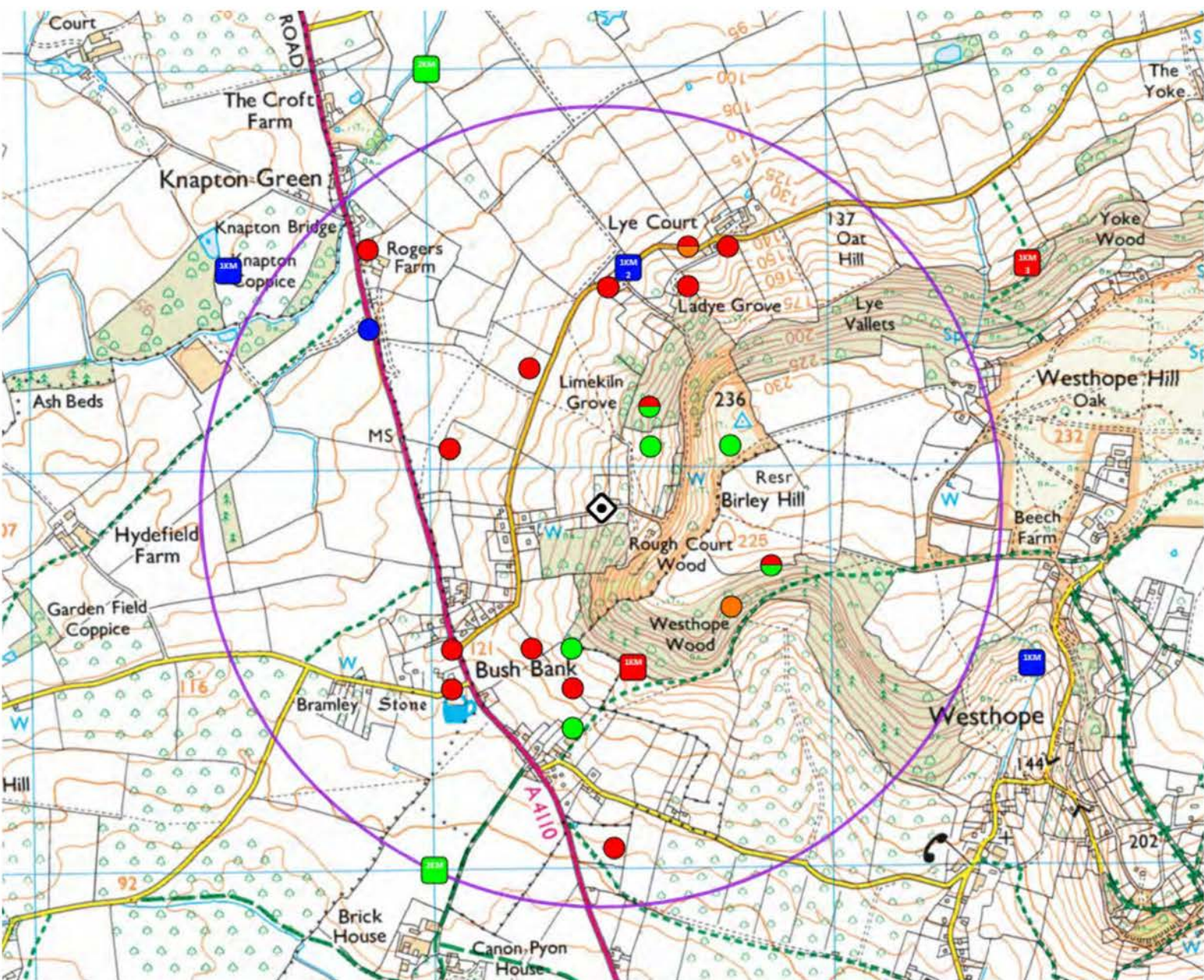
INNS							
Species Name	Grid Reference	Date	Abundance	Record/Sample Type	Site Name	Dataset ID	Lists
<i>Crocasmia pottsii</i> x <i>aurea</i> = <i>C. x crocosmiiflora</i> (Montbretia)	SO45Q (Supplied by Original Recorder)	04/09/2010		Field Observation	SO45 Tetrads; Westhope	D0009/023/01	GBNNSIP, INNS, WCA9
<i>Heracleum</i> <i>mantegazzianum</i> (Giant Hogweed)	SO45K (Supplied by Original Recorder)	2 records, between 1999 and 09/05/2016	Present	Field record/Field Observation	King's Pyon Parish; Canon Pyon Parish; Canon Pyon	D0054/001/01 , D0009/029/01	GBNNSIP, INNS, WCA9
<i>Hyacinthoides non-scripta</i> x <i>hispanica</i> = <i>H. x</i> <i>massartiana</i>	SO45K	09/05/2016	Present	Field record/Field Observation	Canon Pyon Parish; Canon Pyon	D0009/029/01	GBNNSIP, INNS
<i>Lamiastrum galeobdolon</i> <i>subsp. argentatum</i> (Variegated Yellow Archangel)	SO45Q (Supplied by Original Recorder)	04/09/2010		Field Observation	SO45 Tetrads; Westhope	D0009/023/01	GBNNSIP, INNS, WCA9
<i>Prunus laurocerasus</i> (Cherry Laurel)	SO45K (Supplied by Original Recorder)	1999	Present	Field record/Field Observation	King's Pyon Parish	D0054/001/01	GBNNSIP, INNS
<i>Prunus laurocerasus</i> (Cherry Laurel)	SO45L (Supplied by Original Recorder)	1998	1 (Estimate)	Field Observation	Birley with Upper Hill Parish	D0052/001/01	GBNNSIP, INNS
<i>Rhododendron ponticum</i>	SO45Q (Supplied by Original Recorder)	1999	Present	Field record/Field Observation	SO45 Tetrads; Westhope	D0054/001/01	GBNNSIP, INNS, WCA9
<i>Sedum album</i> (White Stonecrop)	SO45K	09/05/2016	Present	Field record/Field Observation	Canon Pyon Parish; Canon Pyon	D0009/029/01	GBNNSIP, INNS
<i>Sedum album</i> (White Stonecrop)	SO45L (Supplied by Original Recorder)	1998	1 (Estimate)	Field Observation	Birley with Upper Hill Parish	D0052/001/01	GBNNSIP, INNS
<i>Sedum album</i> (White Stonecrop)	SO448527 (Supplied by Original Recorder)	17/07/1998	1 (Estimate)	Field Observation	Birley with Upper Hill Parish; Knapton	D0052/001/01	GBNNSIP, INNS

S3							
Species Name	Grid Reference	Date	Abundance	Record/Sample Type	Site Name	Dataset ID	Lists
<i>Anthemis cotula</i> (Stinking Chamomile)	SO45K (Supplied by Original Recorder)	1999	Present	Field record/Field Observation	King's Pyon Parish	D0054/001/01	GBNNSIP, RL-VU
<i>Anthemis cotula</i> (Stinking Chamomile)	SO453513 (Supplied by Original Recorder)	19/07/1999	Present	Field record/Field Observation	Birley with Upper Hill Parish	D0054/001/01	GBNNSIP, RL-VU
<i>Ardea cinerea</i> (Grey Heron)	SO4552	30/09/2003	1 Present	Field record/Field Observation	Bushbank, Canon Pyon,	D0003/009/01	RL-NT
<i>Argynnis paphia</i> (Silver-washed Fritillary)	SO4552	1976	Present	Field record/Field Observation	Ladye Grove [SWS]	D0027/001/01	BCRM, HBAPCC
<i>Briza media</i> (Quaking-grass)	SO45Q (Supplied by Original Recorder)	16/07/2014		Field Observation	SO45 Tetrads; Westhope Common	D0009/027/01	RL-NT
<i>Buxus sempervirens</i> (Box)	SO45K (Supplied by Original Recorder)	1999	Present	Field record/Field Observation	King's Pyon Parish	D0054/001/01	HBAPCC, RDB-NR, RL- DD
<i>Campanula rotundifolia</i> (Harebell)	SO45Q (Supplied by Original Recorder)	4 records, between 1987 and 16/07/2014	Present	Field record/Field Observation	SO45 Tetrads; Westhope; Westhope; Westhope Common	D0054/001/01 , D0016/001/01 , D0009/023/01 , D0009/027/01	RL-NT
<i>Campanula rotundifolia</i> (Harebell)	SO45R (Supplied by Original Recorder)	2 records, between 18/07/1989 and 24/08/2011	Present	Field record/Field Observation	Upper Hill; SO45 Tetrads; Upper Hill to Westhope Common	D0016/003/01 , D0009/024/01	RL-NT
<i>Campanula rotundifolia</i> (Harebell)	SO4652 (Derived from Site Name)	1993	Present	Field record/Field Observation	Westhope Hill SWS	D0001/001/01	RL-NT
<i>Colchicum autumnale</i> (Meadow Saffron)	SO45Q (Supplied by Original Recorder)	1999	Present	Field record/Field Observation	SO45 Tetrads; Westhope	D0054/001/01	HBAPCC, RL-NT
<i>Colchicum autumnale</i> (Meadow Saffron)	SO45R (Supplied by Original Recorder)	2 records, between 18/07/1989 and 24/08/2011	Present	Field record/Field Observation	Upper Hill; SO45 Tetrads; Upper Hill to Westhope Common	D0016/003/01 , D0009/024/01	HBAPCC, RL-NT
<i>Colchicum autumnale</i> (Meadow Saffron)	SO45L	1992	Present	Field record/Field Observation	Knapton Green	D0016/002/01	HBAPCC, RL-NT
<i>Colchicum autumnale</i> (Meadow Saffron)	SO4652 (Derived from Site Name)	1993	Present	Field record/Field Observation	Westhope Hill SWS	D0001/001/01	HBAPCC, RL-NT
<i>Colchicum autumnale</i> (Meadow Saffron)	SO457520 (Supplied by Original Recorder)	14/09/2011		Field Observation	SO45 Tetrads; Birley	D0009/024/01	HBAPCC, RL-NT

Species Name	Grid Reference	Date	Abundance	Record/Sample Type	Site Name	Dataset ID	Lists
<i>Columba oenas</i> (Stock Dove)	SO45Q (Supplied by Original Recorder)	04/09/2010	2 Present	Field Observation	SO45 Tetrads; Westhope	D0009/023/01	BDir2.2, UKBA
<i>Columba oenas</i> (Stock Dove)	SO4550	30/04/2010	2 Present	Field record/Field Observation	Canon Pyon Parish; Canon Pyon	D0003/016/01	BDir2.2, UKBA
<i>Curruca communis</i> (Whitethroat)	SO4550	3 records, between 22/04/2010 and 22/05/2012	1 Present; 1 Male	Field record/Field Observation	Canon Pyon Parish; Canon Pyon	D0003/016/01 , D0003/018/01	HBAPCC, UKBA, WBA
<i>Fragaria vesca</i> (Wild Strawberry)	SO45K (Supplied by Original Recorder)	2 records, between 17/07/1990 and 1999	Present	Field record/Field Observation	King's Pyon Parish; Bush Bank	D0054/001/01 , D0016/003/01	RL-NT
<i>Fragaria vesca</i> (Wild Strawberry)	SO45Q (Supplied by Original Recorder)	3 records, between 1987 and 04/09/2010	Present	Field record/Field Observation	SO45 Tetrads; Westhope; Westhope	D0054/001/01 , D0016/001/01 , D0009/023/01	RL-NT
<i>Fragaria vesca</i> (Wild Strawberry)	SO45R (Supplied by Original Recorder)	2 records, between 1990 and 24/08/2011	Present	Field record/Field Observation	Upper Hill; SO45 Tetrads; Upper Hill to Westhope Common	D0016/003/01 , D0009/024/01	RL-NT
<i>Larus fuscus</i> (Lesser Black-backed Gull)	SO4552	23/10/2001	c.150 Present	Field record/Field Observation	Bushbank, Canon Pyon,	D0003/007/01	BDir2.2, RL-DD, UKBA, WBA
<i>Lathyrus linifolius</i> (Bitter-vetch)	SO45K (Supplied by Original Recorder)	3 records, between 1994 and 09/05/2016	Present	Field record/Field Observation	King's Pyon Parish; Bush Bank; Canon Pyon Parish; Canon Pyon	D0054/001/01 , D0016/002/01 , D0009/029/01	RL-NT
<i>Lathyrus linifolius</i> (Bitter-vetch)	SO45Q (Supplied by Original Recorder)	2 records, between 1994 and 1999	Present	Field record/Field Observation	SO45 Tetrads; Westhope; Westhope	D0054/001/01 , D0016/002/01	RL-NT
<i>Mentha arvensis</i> (Corn Mint)	SO45R (Supplied by Original Recorder)	24/08/2011		Field Observation	SO45 Tetrads; Upper Hill to Westhope Common	D0009/024/01	RL-NT
<i>Oxalis acetosella</i> (Wood-sorrel)	SO45K (Supplied by Original Recorder)	2 records, between 1999 and 09/05/2016	Present	Field record/Field Observation	King's Pyon Parish; Canon Pyon Parish; Canon Pyon	D0054/001/01 , D0009/029/01	RL-NT
<i>Oxalis acetosella</i> (Wood-sorrel)	SO45Q (Supplied by Original Recorder)	2 records, between 1987 and 1999	Present	Field record/Field Observation	SO45 Tetrads; Westhope; Westhope	D0054/001/01 , D0016/001/01	RL-NT
<i>Oxalis acetosella</i> (Wood-sorrel)	SO45R	01/05/1978	Present	Field record/Field Observation	Upper Hill	D0016/001/01	RL-NT

Species Name	Grid Reference	Date	Abundance	Record/Sample Type	Site Name	Dataset ID	Lists
<i>Oxalis acetosella</i> (Wood-sorrel)	SO45L (Supplied by Original Recorder)	2 records, between 18/07/1989 and 1998	Present; 1 (Estimate)	Field record/Field Observation	SO45 Tetrads; Birley with Upper Hill Parish; Birley	D0016/003/01 , D0052/001/01	RL-NT
<i>Pinus sylvestris</i> (Scots Pine)	SO45Q (Supplied by Original Recorder)	2 records, between 1999 and 04/09/2010	Present	Field record/Field Observation	SO45 Tetrads; Westhope	D0054/001/01 , D0009/023/01	RDB-NS
<i>Plantago media</i> (Hoary Plantain)	SO45L (Supplied by Original Recorder)	2 records, between 18/07/1989 and 1998	Present; 1 (Estimate)	Field record/Field Observation	SO45 Tetrads; Birley with Upper Hill Parish; Birley	D0016/003/01 , D0052/001/01	RL-NT
<i>Platanthera chlorantha</i> (Greater Butterfly-orchid)	SO45K (Supplied by Original Recorder)	1999	Present	Field record/Field Observation	King's Pyon Parish	D0054/001/01	RL-NT
<i>Platanthera chlorantha</i> (Greater Butterfly-orchid)	SO458517	05/05/1999	Present	Field record/Field Observation	Westhope Wood [SWS]	D0054/001/01	RL-NT
<i>Platanthera chlorantha</i> (Greater Butterfly-orchid)	SO45R	1990	Present	Field record/Field Observation	Upper Hill	D0016/003/01	RL-NT
<i>Potentilla erecta</i> (Tormentil)	SO45K (Supplied by Original Recorder)	1999	Present	Field record/Field Observation	King's Pyon Parish	D0054/001/01	RL-NT
<i>Potentilla erecta</i> (Tormentil)	SO45Q (Supplied by Original Recorder)	3 records, between 1987 and 16/07/2014	Present	Field record/Field Observation	SO45 Tetrads; Westhope; Westhope; Westhope Common	D0054/001/01 , D0016/001/01 , D0009/027/01	RL-NT
<i>Potentilla erecta</i> (Tormentil)	SO45L (Supplied by Original Recorder)	2 records, between 18/07/1989 and 1998	Present; 1 (Estimate)	Field record/Field Observation	SO45 Tetrads; Birley with Upper Hill Parish; Birley	D0016/003/01 , D0052/001/01	RL-NT
<i>Potentilla erecta</i> (Tormentil)	SO45R (Supplied by Original Recorder)	2 records, between 18/07/1989 and 16/07/2014	Present	Field record/Field Observation	Upper Hill; SO45 Tetrads; Westhope Common	D0016/003/01 , D0009/027/01	RL-NT
<i>Potentilla erecta</i> (Tormentil)	SO4652 (Derived from Site Name)	1993	Present	Field record/Field Observation	Westhope Hill SWS	D0001/001/01	RL-NT
<i>Ranunculus flammula</i> (Lesser Spearwort)	SO45Q (Supplied by Original Recorder)	2 records, between 1999 and 16/07/2014	Present	Field record/Field Observation	SO45 Tetrads; Westhope; Westhope Common	D0054/001/01 , D0009/027/01	RL-VU
<i>Ranunculus flammula</i> (Lesser Spearwort)	SO45R	18/07/1989	Present	Field record/Field Observation	Upper Hill	D0016/003/01	RL-VU
<i>Ranunculus flammula</i> (Lesser Spearwort)	SO45L (Supplied by Original Recorder)	1998	1 (Estimate)	Field Observation	Birley with Upper Hill Parish	D0052/001/01	RL-VU

Species Name	Grid Reference	Date	Abundance	Record/Sample Type	Site Name	Dataset ID	Lists
<i>Sanicula europaea</i> (Sanicle)	SO45K (Supplied by Original Recorder)	3 records, between 17/07/1990 and 09/05/2016	Present	Field record/Field Observation	King's Pyon Parish; Bush Bank; Canon Pyon Parish; Canon Pyon	D0054/001/01 , D0016/003/01 , D0009/029/01	RL-NT
<i>Sanicula europaea</i> (Sanicle)	SO45L (Supplied by Original Recorder)	2 records, between 18/07/1989 and 1998	Present; 1 (Estimate)	Field record/Field Observation	SO45 Tetrads; Birley with Upper Hill Parish; Birley	D0016/003/01 , D0052/001/01	RL-NT
<i>Sanicula europaea</i> (Sanicle)	SO45R	1990	Present	Field record/Field Observation	Upper Hill	D0016/003/01	RL-NT
<i>Silene flos-cuculi</i> (Ragged-Robin)	SO45L (Supplied by Original Recorder)	1998	1 (Estimate)	Field Observation	Birley with Upper Hill Parish	D0052/001/01	RL-NT
<i>Valeriana officinalis</i> (Common Valerian)	SO45L (Supplied by Original Recorder)	1998	1 (Estimate)	Field Observation	Birley with Upper Hill Parish	D0052/001/01	RL-NT
<i>Veronica officinalis</i> (Heath Speedwell)	SO45K (Supplied by Original Recorder)	2 records, between 17/07/1990 and 1999	Present	Field record/Field Observation	King's Pyon Parish; Bush Bank	D0054/001/01 , D0016/003/01	RL-NT
<i>Veronica officinalis</i> (Heath Speedwell)	SO455520	1993	Present	Field record/Field Observation	Birley Hill	D0016/002/01	RL-NT
<i>Veronica officinalis</i> (Heath Speedwell)	SO45L (Supplied by Original Recorder)	1998	1 (Estimate)	Field Observation	Birley with Upper Hill Parish	D0052/001/01	RL-NT
<i>Viola canina</i> (Heath Dog-violet)	SO45R (Supplied by Original Recorder)	1978	Present	Field Observation	Birley with Upper Hill Parish	D0016/001/01	RL-NT, RL-VU



International and National Sites - 0 records	
County and Local Sites - 1 records	
Herefordshire Local Wildlife Sites intersecting 1000m buffer	Westhope Hill and surrounding woodland (SWS_SO45/009) (10m)

- PUBLIC VERSION -

BAP Priority habitats - HBRC				
Habitat	Distance	Area	Coverage	At Search Location
Lowland mixed deciduous woodland	236m	19.881ha	6.331%	No

Priority Habitat Inventory - Natural England				
Habitat	Distance	Area	Coverage	At Search Location
Deciduous woodland	43m - 954m	36.751ha	11.703%	No
Traditional orchard	23m - 989m	1.622ha	0.516%	No
No main habitat but additional habitats present	73m - 961m	1.098ha	0.35%	No
Good quality semi improved grassland	611m	0.453ha	0.144%	No