Ecological Appraisal Report

1 Gardeners Cottage

Hungerford Lane

Conholt Park

Hampshire

SP11 9HA

July 2023

Wild Earth Ecology

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Project Details

Client:	Conholt Nominees Ltd
Site/Job:	1 Gardeners Cottages, Hungerford Lane, Conholt Park, Hampshire, SP11 9HA
Report Title:	Ecological Appraisal
Report Reference:	1Gardener**s**Cottage-Conholt-PA-23
Report author:	Laura Kahane
Grid Reference:	SU 32262 54912
Survey date(s):	29/06/2023
Surveyed by:	Laura Kahane
Architect/Agent:	BCM LLP
Planning reference:	

Quality Control

Version	*Status*	*Date*	*Author(s)*	***Signature***	***Reviewed/ Approved by***	***Signature***
1	Complete	17/07/2023	Laura Kahane	[redacted]	Ceridwyn Adkins	*C.Adkins*
This report remains valid for 12 months from date of issue. Survey data are valid for 12-24 months from the date the survey was undertaken.						

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It is the duty of care of the landowner/developer to act responsibly and comply with current environmental legislation if protected species are suspected or found prior to works.

[1] CIEEM (2017) *Guidelines on Ecological Report Writing*. Chartered Institute of Ecology and Environmental Management, Winchester.

Executive Summary

Purpose	• Ecologist Laura Kahane was appointed by Conholt Nominees Ltd to undertake an Ecological Appraisal (EA) for a proposed development site at Conholt Park, Andover, Hampshire, SP11 9HA. • This survey is required to support the planning application to build a new garage building. • The desk study has revealed that the site is located within an Impact Risk Zone (IRZ) with respect to Rushmore & Conholt Downs (SSSI) which states that Natural England should be contacted for certain development types. Given the scale and nature of the proposal, it does not fall into any of these categories, and it therefore considered that no further consideration is required with respect to this designation.
Methodologies	• A field survey, in the form of an extended Phase 1 Habitat Survey was undertaken. Habitats within the site were identified and mapped in compliance with the 'Handbook for Phase 1 habitat survey: a technique for environmental audit' (Joint Nature Conservation Committee, 2010). • An assessment was also undertaken of the likely presence or absence of protected and notable animal species within the zone of influence of the proposed development. • During the survey work undertaken, areas of species-poor improved grassland, amenity planting, hedgerows, trees, bare ground and buildings were identified within the site. A number of these habitats were recorded to be of suitability to support nesting birds, and others species that occur locally such as hedgehogs and badgers. • A web-based desk study was undertaken for designated sites and protected species and habitat records within 2 km of the site. • Data searches were requested from the Hampshire Bat Group (HBG) and Wiltshire & Swindon Biodiversity Records Centre (WSBRC) for all bat species records within 2km of the site.
Key Issues	• Under the current development proposals, the works will affect areas of species-poor improved grassland and an area of species-poor hedgerow within the site boundary. • The habitats to be affected by the proposed development are considered to be of low botanical value. Recommendations No further surveys recommended. Nesting birds - All works should be undertaken outside of the nesting bird season (March to September inclusive for most species in the UK). If this is not possible, a nesting bird check will need to be carried out on the cherry laurel hedgerow due to be impacted immediately prior to the start of work. If any active nests are present, work must be delayed until the young have fledged. Ecological Enhancement - Enhancements will be easy to integrate into the design of the development and suitable recommendations which will aim to meet the NPPF / local planning policies include a replacement mixed, native hedgerow and bat and bird nesting boxes.

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1.0 Introduction & Background

Overview & Proposed Development

1.1. Wild Earth Ecology was commissioned by The Conholt Nominees Ltd (hereafter referred to as the 'client') to undertake an Ecological Appraisal (EA) of 1 Gardeners Cottages, Hungerford Lane, Conholt Park, Hampshire, SP11 9HA centred at grid reference SU 32262 54912 (hereafter referred to as the 'site'). The survey is required to support a planning application for the erection of a new garage building.

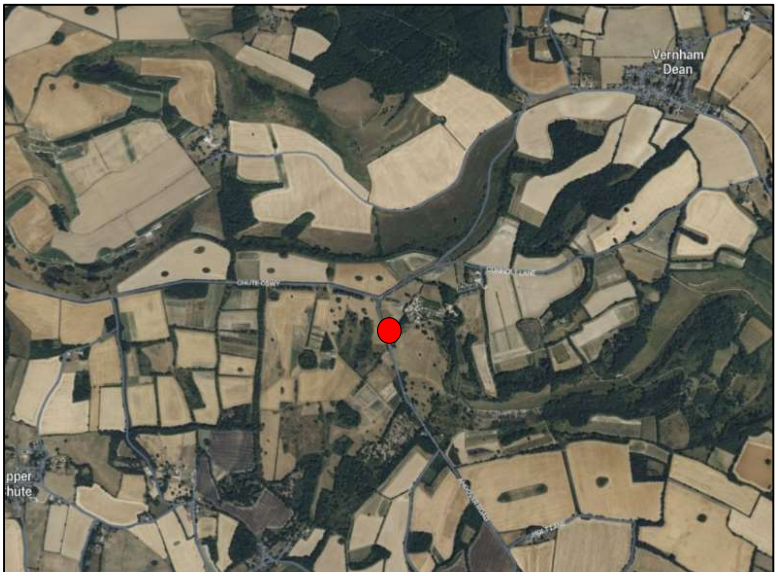
Site Description

1.2. The survey and report undertaken followed the Bat Conservation Trust (2016) guidelines and the standard JNCC Phase 1 Survey Methodology, extended to assess the potential for the site to support protected species. The proposed development site is located in the village on Conholt within the parish of Chute, approximately 8.7km north-west of Andover, Hampshire. Parts of the wider Conholt Park estate falls within south Wiltshire and the eastern areas fall within the North Hampshire. The proposed site is located within the vice county of Wiltshire. Immediately surrounding the proposed development site are areas of agricultural land, residential dwellings and woodland (Map 1).



Map 1. Approximate boundary of the proposed development site (Copyright Google Earth, 2023).

1.3. The wider landscape comprises areas of further agricultural, residential and wood pasture and parkland with some large areas of woodland to the north-east and south-west (Map 2). The surrounding habitats, particularly the agricultural land and woodland, are considered to provide suitable foraging and commuting opportunities for a number of protected species including bats, badgers and birds.



Map 2. The proposed development site in the context of the wider landscape (Copyright Google Earth, 2023).

2.0. Methodology

Desk Study

2.1. Table 1 – Sources of biodiversity and ecological records

Source	*Information (search buffer between 2 km from site centre/boundary)*
Hampshire Bat Group (HBG) Wiltshire Bat Group (WBG)	Key information regarding the confirmed presence and habitat of all bat species within a 2km radius of the site boundary, or up to the HBG/WBG records boundary. Provided via Wiltshire & Swindon Biodiversity Records Centre (WSBRC)
National Biodiversity Atlas (NBN)	Including a search radius of 2km from the site boundary.
Multi-Agency Geographic Information for the Countryside (MAGIC) and Joint Nature Conservation Committee (JNCC)	To obtain information on any designated sites of nature conservation interest within 2 km of the site and details of any European Protected Species licences issued within 2 km (http://www.magic.gov.uk/MagicMap.aspx).
Google Maps / Google Earth	To view aerial photographs, maps and mapnik data, to assess the ecological context of the site (http://acme.com/planimeter/).

Field Survey

2.2. Ecologist Laura Kahane AMRSB MRes BSc (Hons) undertook an Ecological Appraisal on 29th June 2023, when the weather was dry and bright.

2.3. The survey included carrying out an extended phase 1 habitat survey. This consisted of a walkover assessment of the site within the red line boundary provided, using a phase 1 habitat survey methodology (JNCC, 2010, as amended by the Institute of chartered Environmental assessment (IEA, 1995)). This is a standard technique for classifying and mapping British habitats. All areas within the site were successfully surveyed, with main plant species recorded and habitat types mapped. Indications of ecological value were recorded which included any presence or signs of any legally protected or rare species.

2.4. The surveyed also included a search to identify the presence of any invasive, non-native plant species (particularly those listed on schedule 9 of the Wildlife & Countryside Act 1981 (as amended) which include Japanese Knotweed *(Reynoutria japonica)* and Himalayan Balsam *(Impatiens glandulifera).* Any existing trees on site were assessed for their potential to support roosting bats and birds.

Ecological Appraisal

2.5. The PEA survey identified the habitats present and their potential for protected species, particularly bats, birds, hedgehogs (Erinaceus europaeus), badgers (Meles meles), hazel dormouse (Muscardinus avellanarius), amphibians, reptiles and invertebrates following the standard guidelines set out by the Chartered Institute of Ecology and Environmental Management (CIEEM, 2018).

2.6. The survey focused upon the land within the red line boundary of the planning application.

2.7. The trees and other habitats to be affected within the site were assessed for their potential to support roosting and foraging bats, birds and other protected species.

Bats

2.8. Any trees to be affected by the proposed works were assessed visually for evidence of bats and assessed for features which increase the likelihood of bats roosting, such as storm damage, rot holes, ivy cover, flaying bark and splits in the trunk. Linear habitat features, both within and connecting to the site were visually assessed for their likely use as foraging and commuting corridors.

2.9. Other habitats on site were visually assessed for their likely use as foraging sites.

Amphibians

2.10. Any waterbodies within the site were assessed for their potential for use by amphibians and for features which increase likelihood of use as breeding sites for great crested newts (*Triturus cristatus*), such as suitable submergent vegetation, low water turbidity, absence of fish and low levels of use by waterfowl.

2.11. Other habitats on site were assessed for their likely use outside of the breeding season for both foraging and shelter purposes.

Reptiles

2.12. Open areas of habitat were visually assessed for suitability for reptiles and features which increase likelihood of use by reptiles, including the presence of tussocky vegetation, log and rock piles, basking spots and compost heaps.

Other Mammals

2.13. Areas of dense vegetated cover on site and adjacent to the site were assessed for their likely use by badgers, and attention was paid to the presence of any signs of current or historic badger activity such as setts and latrines.

2.14. Open areas of habitat were visually assessed for signs of mammal tracks, push throughs and latrines.

2.15. Areas of woodland, copse, tree lines, hedgerows and other boundary vegetation were assessed for their likely use by hazel dormice, or increased likelihood of use due to presence of hazel and other suitable food species.

Surveyor Information

2.16. Table 2 – Surveyor Information

Surveyor	*Licences*	*Ecological Experience or qualification*
Laura Kahane	Class licence CL18 (Bats) Licence reference: 2020-45059-CLS-CLS	Associate member of the Royal Society of Biology MRes Ecology, Evolution & Conservation BSc (Hons) Wildlife, Ecology & Conservation Certificate in Ecological Consultancy

Limitations and Assumptions

2.17. The desk study and field survey will not produce a comprehensive list of plants and animals as this will be limited by factors that influence their presence (e.g., activity and dormancy periods). An assessment can however be made of the habitats within the survey area, their nature conservation value and potential to support protected or priority species.

2.18. Bats can utilise buildings or trees seasonally, with frequent movement often caused by fluctuations in weather conditions. Therefore, they may arrive and begin utilising a site after it has been assessed for bats, or roost temporarily somewhere during the assessment. As a result, they're cryptic nature means there is potential for them to be present during the assessment, remaining undetected, especially during the daytime when they are inactive.

2.19. No other limitations were encountered, or assumptions made during either the desk study or the field survey and it is considered that with the access gained and recording undertaken an accurate assessment of the site's ecological value has been made.

3.0 Results

Desk Study

Designated Sites (statutory)

3.1. Two statutory designated sites are present within 2km of the proposed development site. The site boundary falls within The North Wessex Downs Area of Outstanding Natural Beauty (AONB) and the Rushmore & Conholt Downs Site of Special Scientific Interest (SSSI) is split into four units and is located approximately 1.4km south-east of the site. The Rushmore & Conholt Downs SSSI comprises areas of broadleaved mixed and yew woodland, scrub and calcareous grassland mostly within favourable to recovering condition. This area is thought to have one of the oldest known juniper populations on English chalk and is designated for notable species such as two nationally scarce bryophytes (*Aloina ambigua* and *Weissia sterilis)* and historical records of Duke of Burgundy butterfly on highly floristic and diversity chalk grasslands.

3.2. The desk study has revealed that the site is located within an Impact Risk Zone (IRZ) with respect to Rushmore & Conholt Downs SSSI which states that Natural England should be contacted for certain development types. Given the scale and nature of the proposal, it does not fall into any of these categories, and it therefore considered that no further consideration is required with respect to this designation.

SSSI Impact Risk Zones - to assess planning applications for likely impacts on SSSIs/SACs/SPAs & Ramsar sites (England)	
1. DOES PLANNING PROPOSAL FALL INTO ONE OR MORE OF THE CATEGORIES BELOW?	2. IF YES, CHECK THE CORRESPONDING DESCRIPTION(S) BELOW. LPA SHOULD CONSULT NATURAL ENGLAND ON LIKELY RISKS FROM THE FOLLOWING:
All Planning Applications	
Infrastructure	Airports, helipads and other aviation proposals.
Wind & Solar Energy	
Minerals, Oil & Gas	
Rural Non Residential	
Residential	
Rural Residential	
Air Pollution	Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 200m², manure stores > 250t).
Combustion	General combustion processes >20MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.

	digestion, sewage treatment works, other incineration/ combustion.
Waste	Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill.
Composting	Any composting proposal with more than 75000 tonnes maximum annual operational throughput. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management.
Discharges	Any discharge of water or liquid waste that is discharged to ground (ie to seep away) or to surface water, such as a beck or stream.
Water Supply	
Notes 1	
Notes 2	NUTRIENT IMPACT AREA. For new development with overnight accommodation Reg 63 of the Conservation of Habitats and Species Regulations 2017 must be applied and additional measures required. LPA to refer to Natural England□s Nutrient Neutrality advice.
GUIDANCE - How to use the Impact Risk Zones	/Metadata_for_magic/SSSI IRZ User Guidance MAGIC.pdf

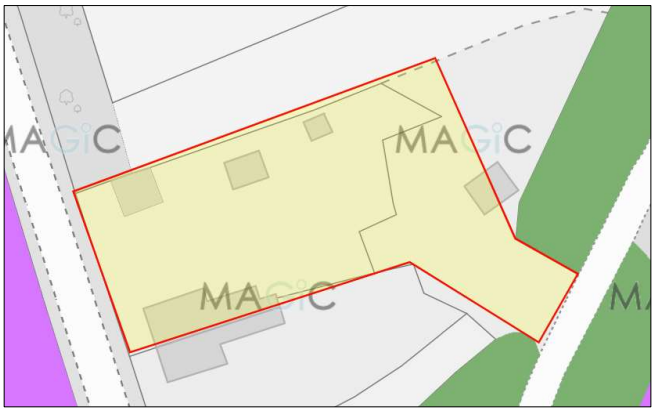
Designated Sites (non-statutory)

3.3. No areas of non-statutory designation are located within 2km of the proposed development site.

Priority Habitats and Ancient Woodland

3.4. The site sits within a larger area of wood pasture and parkland, and the eastern boundary falls adjacent to a belt of deciduous woodland, both classed as a UK BAP priority habitat.

3.5. A number of priority habitats are present within the wider area, including areas of deciduous woodland, wood pasture and parkland and good quality semi-improved grassland. The closest of these is an area of good quality semi-improved grassland approximately 15m south-east of the immediate site boundary (Map 3). Seven areas of ancient woodland exist within 2km of the site boundary. The closest area of ancient woodland is Cathanger Wood (ASW) located approximately 460m south of the site.



Map 3. Location of deciduous broadleaved woodland (dark green) and good quality semi-improved grassland (purple) located adjacent to or within close proximity to the approximate site boundary (Copyright MagicMaps, 2023).

Impacts and Mitigation

3.6 Consideration will be required to be given to these priority habitats throughout the development process, and a suitable buffer of at least 15m will be required to be maintained between the area of any offsite priority habitats such as deciduous woodland and good quality semi-improved grassland and any development works. This should be established by a suitably qualified ecologist. In addition, following the implementation of the mitigation and enhancement measures set out below it is anticipated that any indirect effects of the development on these features will be effectively minimised.

Field Survey

Timing and Conditions

3.7. Table 5 – Summary of conditions during survey

Survey Date:	29/06/2023
Survey Type:	Ecological Appraisal
Temperature start:	17°C
Temperature finish:	17°C
Wind speed (Beaufort Scale):	0
Cloud Cover (Oktas Scale):	2
Precipitation:	0
Notes:	Conditions were fine and dry

Habitat Groups

3.8. During the field survey, areas of improved grassland, hedgerow (species-poor), amenity planting, mature tree, bare ground and buildings were identified within the site.

3.9. Figure 1 illustrates the location and extent of all habitats recorded on site. It should be noted that not all botanical species present could be observed due to the time of year and that the habitat descriptions do not encompass full floral species lists (only dominant native species present within each habitat type) which were observed at the time of survey. A wide angle image of the site can be viewed in image 13 & 14.

Figure 1. Habitat Map



Project: No 1 Garden Cottage, Conholt Park, Andover, Hampshire, SP11 9HA **Figure 1:** Habitat Plan

Date: July 2023 Contact: laura@wildearthecology.co.uk

WILD EARTH ECOLOGY

Improved grassland (species-poor)

3.10. A large section of improved grassland is the dominant habitat on site (see image 1). This area was recorded to have been subject to regular management through mowing. The species-poor improved grassland held a sward height of between 2cm and 10cm throughout. This improved grassland continues on the north-eastern boundary, beyond the laurel hedgerow.

3.11. Grass species including Perennial ryegrass *Lolium perenne* dominated with scarcer, scattered areas of False oatgrass (*Arrhenatherum elatius)* featuring on the boundary. Herbaceous and forb species present were low in diversity and typical of improved grassland and included White clover (*Trifolium repens)*, Ribwort plantain (*Plantago lanceolata),* Common Dandilion, (*Taraxacum officinale)* and Daisy *(Bellis perennis).* Marginal areas along the periphery included immature common nettle (*Urtica dioica)*, greater celandine (*Chelidonium majus)*, willowherb (*Chamerion angustifolium)* and creeping thistle (*Cirsium arvense)*. A small area of tall ruderal species such as common nettle, creeping thistle and common poppy (*Papaver rhoeas*) can be found in the south-eastern corner. Minor areas of crushed gravel exist within the improved grassland towards the access track on the northeastern boundary.

3.12. A section of improved grassland to the northeast of the site and continuing south-east will be impacted by the proposed development and for associated access. Overall, this habitat is considered to be of low botanical value.



Image 1. View of improved grassland habitat where proposed garage will be sited.

Hedgerow (species-poor)

3.13. A single mature cherry laurel hedgerow is present within the site extending along the northern and north-eastern boundary. This hedgerow is species-poor, dominated by cherry laurel with two minor areas of honeysuckle encroachment at either end (image 2) measuring approximately 55m L, 1m W x 2m H. This hedgerow is currently protected by a timber fence on the boundary of the property.

3.14. Current plans will impact the north-eastern and easterly section of this hedgerow. Approximately 18m will need to be removed and is due to be replaced and re-angled with 20m (6m on the norther boundary and

14m on the eastern boundary. Overall, the hedgerow present is considered to be of no elevated ecological or botanical value due to it being listed on schedule 9 of the Wildlife and Countryside Act 1981 (as amended) as a non-native, invasive species which in this instance offers a minimal understory at current comprising areas of common nettle only. The hedgerow was assessed according to criteria set out in the Hedgerow Regulations1997 and does not meet the criteria for a 'priority hedgerow habitat' or 'important' due to its species poor character.



Image 2. View of Cherry laurel hedgerow present on the northern and north-eastern boundary.

Amenity planting

3.15. Areas of amenity planting are present along the periphery of the site and within the improved grassland area (images 3 & 4), in keeping with its nature as an amenity garden. These areas include a range of common and ornamental species including American chestnut (*Castanea dentata)*, cypress sp (*Cupressus sp*, cherry laurel (*Prunus laurocerasus)*, hazel (*Corylus avellana)*, corkscrew hazel (*Corylus avellana) 'cortorta'*, fuscias (*fuchsia Magellanica)*, *prunus sp*, roses (*Rosacea sp)* and butterfly bush (*Buddleja davidii)*. These amenity planted areas were recorded to be varied in height and dominated by non-native species that offer negligible inherent botanical value.



Image 3. View of areas of Cypress and Hazel present within the centre of the improved



Image 4. Front garden to the south comprising amenity planting.

Bare ground

3.16. Two spoil piles comprised of chalk (image 5) and slate chip are present on the northern boundary of the proposed site. In addition, there are several areas of bare ground with disturbed soil within the improved grassland (image 6), on the access track to the southeast and surrounding the main house. The spoil piles are compacted and are without crevices or gaps between the substrate. Some grassland and common ruderal species such as perennial ryegrass *Lolium perenne,* wood sage *Teucrium scorodonia* and common nettle have encroached the bare ground.



Image 5. Area of chalk spoils to the east of the site on the northeastern boundary.



Image 6. Area of bare ground situated on the northern boundary where the proposed garage will be sited.

Impacts and Mitigation

3.17. Bare ground areas offer low potential to support basking or hibernating Slow worms *Anguis fragilis* found in urban gardens, parklands, grassland, scrub, hedgerows and brownfield sites in surrounding areas. This habitat offers negligible potential to support Common lizard *Zootoca vivipara*. The sites proximity to grassland areas surrounding the site have also been considered. As a precaution it is considered that the mitigation measures recommended with respect to amphibians (see 3.2 in this report) will safeguard any reptiles in the event that they are present within the site during the development works.

Schedule 9 Species

3.18. Cherry laurel is found in several areas of the garden along the northern boundary and in the southeastern corner of the site (image 8). An area of Butterfly bush also exists on the south-eastern boundary features (image 7). Cherry laurel and Butterfly bush are listed under Schedule 9 of the Wildlife and Countryside Act 1981 (as amended) and are considered to be invasive non-native species. It is illegal to cause the spread of schedule 9 species offsite and should be taken into consideration throughout the development process.



Image 7. Single stand of Butterfly bush on the south-eastern boundary.



Image 8. Cherry laurel hedgerow on the northern boundary.

Trees

5.19. Three individual trees are present on the site. These trees have been recorded as semi-mature to mature and comprise species including an American Chestnut on the northern boundary (image 10) and two small *prunus sp* on the eastern boundary (image 9). Understorey species were recorded to be present under the semi-mature prunus tree including common nettle and willowherb. At the time of the survey this feature was recorded to be subject to regular management.

5.20. Overall, the trees are considered to be of elevated ecological value generally, however of low botanical value in the context of the site.



Image 9. Semi-mature *Prunus sp* tree on the eastern boundary.



Image 10. Mature Chestnut tree on the northern boundary.

Impacts and Mitigation

5.21. It is understood that no individual trees are proposed for removal and will not be impacted by the proposed development. Generally, these features were considered to be of low ecological value within the context of the site but could provide roosting and foraging opportunities for a range of species, including bats, nesting birds, badgers and hedgehogs.

5.22. Any trees to be removed should be replaced with suitable native planting to ensure that the existing biodiversity value of the site is maintained in the long term.

5.23. The habitats of most value to wildlife such as bats and birds is the woodland to the northeast and southeast of the site which are to remain in situ and will be protected from impacts during the development works.

Buildings

5.24. The site comprises two buildings including the main house (image 12) and a summer house-style timber built outbuilding (image 11) situated within the amenity garden on the northern boundary. It is understood that no major works are proposed for these buildings and therefore a preliminary roost assessment has not been undertaken.



Image 11. Timber-built summerhouse-style outbuilding on northern boundary.



Image 12. Main house situated to the south of the site.

Protected species

Birds

Desk Study

3.25. The study returned records of a number of protected, priority or notable bird species within 2km of the site, including the Wildlife & Countryside Act 1981 (as amended) Schedule 1 species including Long-tailed Tit *Aegithalos caudatus*, Skylark *Alauda arvensis*, Red-legged Partridge *Alectoris rufus,* Mallard *Anas platyrhynchos*, Meadow Pipit *Anthus pratensis*, Tree Pipit *Anthus trivialis*, Swift *Apus apus*, Grey Heron *Ardea cinerea*, Little Owl *Athene noctua*, Goldfinch *Carduelis carduelis,* Treecreeper *Certhia familiaris*, Greenfinch *Chloris chloris*, Black-headed Gull *Chroicocephalus ridibundus*, Jackdaw *Coloeus monedula*, Rock Dove *Columba livia*, Stock Dove *Columba oenas*, Woodpigeon *Columba palumbus*, Raven *Corvus corax*, Carrion Crow *Corvus corone*, Rook *Corvus frugilegus*, Cuckoo *Cuculus canorus*, Whitethroat *Curruca communis*, Lesser Whitethroat *Curruca curruca*, Blue Tit *Cyanistes caeruleus*, House Martin *Delichon urbicum*, Great Spotted Woodpecker *Dendrocopos major*, Lesser Spotted Woodpecker *Dryobates minor*, Yellowhammer *Emberiza citrinella*, Robin *Erithacus rubecula*, Kestrel *Falco tinnunculus*, Pied Flycatcher *Ficedula hypoleuca*, Chaffinch *Fringilla coelebs*, Brambling *Fringilla montifringilla*, Moorhen *Gallinula chloropus*, Jay *Garrulus glandarius*, Swallow *Hirundo rustica*, Herring Gull *Larus argentatus*, Linnet *Linaria cannabina*, Pied Wagtail *Motacilla alba* yarrellii, Pied Wagtail *Motacilla alba,* Spotted Flycatcher *Muscicapa striata*, Great Tit *Parus major*, House Sparrow *Passer domesticus*, Grey Partridge *Perdix perdix,* Coal Tit *Periparus ater*, Pheasant *Phasianus colchicus,* Redstart *Phoenicurus phoenicurus*, Chiffchaff *Phylloscopus collybita*, Willow Warbler *Phylloscopus trochilus*, Magpie *Pica pica*, Green Woodpecker *Picus viridis*. It is also a conservation area for farmland birds including Corn bunting *Emberiza calandra* lapwing *Vanellus vanellus*, grey partridge *Perdix perdix* and stone curlew *Burhinus oedicnemus*.

Habitat Assessment

3.26. The species-poor improved grassland, trees and to a lesser extent the amenity planting and species-poor hedgerow within the site provide suitable nesting and/or foraging opportunities for

a variety of bird species which may be found in the local area. On this basis, recommendations with respect to this species group are set out below to ensure that they are safeguarded throughout the development works.

3.27. It is recommended that the trees within and adjacent to the site are retained, and that any trees to be removed are replaced with suitable native tree planting in order to ensure that opportunities for this species group remain following the completion of the development.

Impacts and Mitigation

3.28. All occupied birds nests have legal protection from damage and destruction under the Wildlife & Countryside Act (1981). All clearance of suitable vegetation and trees should therefore be undertaken outside of the nesting bird season (March to September inclusive for most species in the UK). If vegetation clearance must be undertaken during the nesting season, all vegetation should first be subject to a breeding bird survey by a suitably qualified ecologist. If any active bird nests are found in the areas that need to be cleared the chicks must first be allowed to fledge.

3.29. Regardless of historical presence, the proposed re-development should seek to enhance the developed site for breeding birds by selecting planting schemes which aim to provide food, cover and nesting sites for birds. This could mean providing a layered structure through the selection of plants which will grow to different heights, and which provide a dense shrub layer (e.g. holly and hawthorn) and species which attract insects and/or produce berries in order to provide seasonal food resources. Shrubs, trees, and climbers can further disguise bare walls or fencing and create an attractive backdrop for lower-level species planted in front.

3.30. Consideration must be given to the provision of replacement nest sites for Barn swallows, and other target species of conservation concern who are under serious threat from multiple pressure. The development design should aim to further enhance the value of the application site for breeding birds. Swallows prefer to nest high up inside of agricultural buildings, or where there is cover and should be encouraged to nest by attaching nest cups (to beams or rafters) or overhang boxes (to eaves/ridges) with an open bottom. These should be sited in an elevated location, with easy access through an open section, such as a covered entrance of a porch or other overhanging structures (car port/log-store, etc) on B1 or other surrounding buildings. These can also be fitted to features such as an open fronted porch, canopy or wood store which is integrated into the design. At least two swallow nest cups should be fitted inside this type of structure, in an attempt to attract this species back to the site following development.

Reptiles

Desk Study

3.31. The data search returned 2 records of slow worm within 2km of the site. Of these, the closest records are for slow worms, located within 1.7km south-west of the site and dated 2016.

Habitat Assessment

3.32. Areas of improved grassland and to some extent the bare ground within the site offer low potential to support basking or hibernating common reptile species, however these habitats are considered sub-optimal due to the lack of floristic diversity within the grassland and low sward

height due to regular management. Additionally, the area of improved grassland due to be impacted by the footprint of the proposed development is small at approximately 55m2.

Impacts and Mitigation

3.33. Given that the proposed development will not result in loss of areas of reptile habitat it is not recommended that further survey work with respect to reptiles is carried out. However, as a precaution it is considered that the mitigation measures outlined below with respect to amphibians will safeguard any reptiles in the event that they are present within the site during the development works.

Amphibians

Desk Study

3.34. Records of common frog *Rana temporaria* and common toad *Bufo bufo* were returned by the data search from within a 2km radius of the site. Of these, the closest record lies approximately 1.7km north-east of the site and dated 2011. No records of great crested newts were returned.

Habitat Assessment

3.35. No wet or temporal waterbodies have been identified within 500m of the proposed development site.

Impacts and Mitigation

3.36. Any vegetation to be removed should be done so carefully by hand in order to allow any animals which may be present to escape. Any animals remaining in the area should be carefully picked up in a gloved hand and moved to suitable habitat within the boundaries of the site.

Dormice

Desk Study

3.37. The data search returned two records of Hazel dormouse with a 2km radius of the site. The closest record is located with woodland 1.2km south-east from 1993.

Habitat Assessment

3.38. No evidence of dormice was found during the ecological appraisal of the site.

3.39. The species-poor hedgerow habitat on the northern boundary is of suboptimal value to dormice and does not provide adequate connectivity to suitable offsite habitat of elevated value to this species.

Impacts and Mitigation

3.40. Given the absence of dormice in the local area and the suboptimal nature of the habitat, it is not recommended that further survey work is carried out with respect to this species.

Hedgehogs

Desk Study

3.41. The data search identified a total of seven records of live hedgehogs with a 2km radius of the site. Of these, the closest record is located approximately 1.5km north-east of the site and dated 2021.

Habitat Assessment

3.42 Areas of species-poor improved grassland, amenity planting and hedgerows within the site provide suitable foraging, commuting and hibernating habitat for hedgehogs.

Impacts and Mitigation

3.43. Hedgehogs may be present on site and are likely to pass through the site. Hedgehogs are listed as a Priority Species for Conservation Action under the UK Biodiversity Action Plan and protected from harm in the UK under Schedule 6 of the Wildlife and Countryside Act 1981. Under the NERC Act 2006, the hedgehog is categorised as a 'Species of Principal Importance' for biodiversity.

3.44. Hedgehogs do not exhibit fight or flight behaviour and will therefore not move out of the way during works. Any areas of dense vegetation to be removed should be cleared carefully by hand and any hedgehogs encountered carefully removed to a safe place.

3.45. Hedgehogs do not exhibit fight or flight behaviour and will therefore not move out of the way during works. Any areas of dense vegetation to be removed should be cleared carefully by hand and any hedgehogs encountered carefully removed to a safe place.

Badgers

Desk Study

3.46. The data search provided two records of badgers within a 2km x 2km square area of the site boundary.

Habitat Assessment

3.47. No badger setts or evidence of badgers were found on site. However, habitats within the surrounding area such as areas of woodland, treeline and agricultural land do offer foraging opportunities for this species, and it is considered possible that they pass through the site on occasion.

Impacts and Mitigation

3.48. It is considered that the mitigation measures outlined above with respect to hedgehogs will safeguard any badgers in the event that they are present within the site during the development works. In addition, where appropriate it is recommended that wildlife access holes suitable for badgers are incorporated into any proposed fence-lines. 25cm by 20cm is suitable for badgers to pass through. Furthermore, any trenches or ditches created during the development should be covered at night or provide a means of escape for mammals that are likely to feature within the surrounding landscape such as badgers and brown hares.

Bats

Desk Study

3.49. The data search returned records of common pipistrelle *Pipistrellus pipistrellus*, soprano pipistrelle *Pipistrellus pygmaeus*, brown long-eared *Plecotus auritus*, Natterers *Myotis nattereri*, Daubentons *Myotis daubentonii*, Myotis *spp. Myotis*, Leisler's *Nyctalus leisleri*, noctule *Nyctalus noctula* and serotine *Eptesicus serotinus* within the 2km search area. Of these, the closest record is for Common pipistrelle bats roosting approximately 1.5km south-east of the site and dated 2016. A further roost is situated approximately 1.7km to the south-east was recorded in 2018 and featured Common, Serotine and Brown-longed eared species for which a European Protected Species Licence (EPSL) was applied for.

Habitat Assessment

3.50. Habitats within the site boundary, including the species-poor improved grassland, trees, buildings and to a lesser extent the amenity planting areas on site provide potential roosting, foraging and commuting opportunities for a range of bat species. Given there are no proposed impacts to these habitats, no further survey work is recommended.

Impacts and Mitigation

3.51 It is understood that no trees on or adjacent to the site will be impacted under the current development proposals. These features are of ecological value to foraging and commuting bats. Should any trees require removal, they should be replaced with suitable native planting to ensure that the existing biodiversity value of the site is maintained in the long term.

3.52. All retained trees should be protected throughout the development in accordance with British Standards BS 5837:2012. Root protection areas should be 12x the diameter at breast height (DBH) or the reach of the longest branch (whichever is greater), unless otherwise advised by a qualified arboriculturist. Trees located off site but with their roots on site should also be protected. No materials should be allowed to be stored within these root protection areas and no heavy machinery should run over them.

Lighting

3.53. As foraging and commuting bats are likely to be present in the local area, it is recommended that any new external lighting be directed to avoid light spillage onto vegetation or foraging features such as the nearby woodland, wood pasture and parkland and trees. Bats are sensitive to light and could potentially avoid the area if access points or the surrounding areas become further lit. Appropriate lighting options will prevent a negative impact on bats potentially using the habitats on site and should be approved by a suitably qualified Licensed Bat Ecologist.

3.54. Any potential impact on bats can be minimised through the use of "warmer" lights as these are less penetrating than bright white lights (such as LEDs), as well as maintaining the brightness as low as possible and limiting the times during which the lighting can be used to provide some dark periods. Motion sensors are strongly recommended, using a short timer to reduce the duration of lighting and reduce disturbance to bats. In addition, directing the lighting to where it is needed to avoid light spillage onto vegetated margins and minimising upward lighting by fitting lights with downward facing baffles to avoid light pollution will also mitigate the impact of any new lighting on bat species.

3.55. Light can be restricted by fitting hoods which direct the light below the horizontal plane, at an angle less than seventy degrees. Limiting the height of lighting columns and directing light at a low level away from vegetation reduces the ecological impact of the light.

Timber Treatment

3.56. Any use of timber-treatment or pest control treatment should be from the approved lists for safe use in or near bat roosts which can be found at: https://www.gov.uk/government/publications/bat-roosts-insecticides-and-timber-treatments/timber-treatment-products-suitable-for-use-in-or-near-bat-roosts. Other approved brands are also available and can be provided on request.

Impacts of Proposed Development

3.57. Table 8 – Summary of potential impacts of the proposed development on protected species

Species	Ecological Evaluation (including scale and nature of impact*)	Further survey recommendations
Bats	Negligible	No further survey recommendations
Birds	Low	
Hazel Dormouse	Negligible	
Reptiles	Negligible	
Great crested newt	Negligible	
Amphibians	Low	
Nesting birds	Low	
European Badger	Negligible	
West European Hedgehog	Low	

**Ultimate assessment of the scale and nature of impacts is dependent on the final design of the proposed development and exact habitats affected.*

4.0 Enhancement recommendations

4.1. Below is a summary of measures, which should be implemented on site to achieve a minimum no net loss of functional habitat for biodiversity from those areas due to be impacted, as well as to enhance the area for wildlife long-term;

Native Landscaping

4.2. Any future landscaping planting should seek to enhance biodiversity, improve connectivity to the surrounding habitats and provide food and shelter for a wide range of faunal species. All amenity planting and formal landscaped areas should be created from a palate of wildlife beneficial plants (not necessarily native) chosen for nectar or fruit. Care should be taken to manage habitats in a suitable way to encourage a wide variety of insects and other wildlife to use the site. Non-invasive species should not be planted. Any invasive species found to be currently on site should be removed with care during vegetation clearance and disposed of appropriately.

4.3. A new mixed, native hedgerow of at least 6m + 14m could be planted on-site along the northern and eastern boundary to replace the habitat lost (see site & location plan in appendix 4). Hedgerow planting should be; notch-planted in double staggered rows (45cm using 5 plants per linear metre), with plants at 60-80cm height (except for holly), be individually staked with bamboo and spiral guards for protection while establishing, grown and managed to a 3m height include species of the following composition where possible; hawthorn 40%, hazel 30%,

blackthorn 10%, spindle 5%, field maple 5%, holly 2.5%, wayfaring tree 5% and guelder rose 2.5%.

Bat and Bird Boxes

4.4. As records of a range of bat and bird species, including WaCA 1981 (as amended) and UK BAP priority species, have been returned from within the habitats surrounding the site, it is recommended that a number of roost/nest boxes are incorporated into the proposed development in order to improve the availability of roosting and nesting opportunities for these species group.

4.5. It is recommended that one 2FN Schwegler Bat Box or equivalent (dependent on product availability, e.g., Beaumaris Bat Box, Vivara Pro Woodstone Bat Box) is installed on suitable retained trees or on other surrounding buildings nearby. The mature Chestnut on the northern boundary would be a suitable location. The bat box should ideally be made of woodcrete, and be positioned at least 3-5m high, in a south or south-west facing direction with a clear flight path to and from the entrance (free from obstruction) and away from artificial light such as sensor operated flood lights. Please note that the inclusion of a bat box on a building, does not mean that bats will be attracted to roosting within the building itself. The installation of bat boxes within the vicinity of the buildings will provide additional roosting habitat for bats. Bats often require time to locate new roosting sites, and it may be several years before a box is colonised.

4.6. It is recommended that the bird boxes to be installed within the completed development comprise one Schwegler 1B Nest Box (32mm entrance hole) and a barn swallow nest cup. The Schwegler 1B nest box will provide opportunities for birds such as house sparrow, blue tit, great tit, and nuthatch, and should be installed on suitable retained trees on the south-eastern boundary (off-site) within the completed development. The swallow nest cup could be installed on the new garage building, or on an offsite building nearby. Swallows prefer to nest high up inside of buildings, or where there is cover and should be encouraged to nest by attaching nest cups (to beams or rafters) or overhang boxes (to eaves/ridges) with an open bottom. These should be sited in an elevated location, with easy access through an open section, such as a covered entrance of a porch or other overhanging structures on a building. At least one swallow nest cup should be fitted in an attempt to attract this species back to the site following development.

Other considerations

Biodiversity Net Gain

The environment Act 2021 will soon (autumn 2023) legally require all developments in England to incorporate a mandatory 10% biodiversity net gain (BNG) with the inclusion of ensuring maintenance of these habitats for a minimum of 30 years. The original concept is set out in policy and operates in parallel to the Environmental Impact Assessment (EIA) process required by legislation. The NPPF states that:

a. planning policies and decisions should contribute to and enhance the natural and local environment by minimising impacts on and providing net gains for biodiversity and

b. should protect and enhance biodiversity and geodiversity as well as identify and pursue opportunities for securing measurable net gains for biodiversity.

This means that BNG is now an integral part of planning decisions and should be factored in at an early stage to improve biodiversity. Whilst it is understood that this development and application type is not one which requires a biodiversity net gain statement prior to secondary legislation being implemented, all efforts should be made within the planning stages to incorporate biodiversity net gain, where possible to remain in line with local policy. As a result, net gains sort under the NPPF can be satisfied with a 1% gain. Many local planning authorities already have a compulsory minimum BNG target for all developments of any scale or nature, up to 20%.

Connectivity is an important facet of habitats within BNG, as well as the proximity of replacement habitats to those lost. Further recommendations for any native landscaping of the area should include the use of;

- 'Wildlife-friendly' planting which should offer both food resources and shelter (where possible) for animals;
- Species which are native to the UK (e.g. Field maple, Rowan, hazel, oak, wild cherry, rowan, crab apple, hawthorn, blackthorn, Yew, Box).
- Wider-canopy or broadleaved tree species to replace those lost (e.g. maple, rowan, beech, silver birch, downy birch, hazel, oak).
- Species which are flowering/fruiting (e.g. Elder, cherry, silver birch, holly, blueberries, Yew)
- Species which are attractive to native invertebrates and pollinators, including those that are overwintering (e.g., winter cherry, native oaks, jasmine, plums, poplars, willows and honeysuckle). A bloom calendar can be utilised within a tree planting scheme to ensure that there is a succession of pollen and nectar availability throughout the seasons. (E.g. Pussy willow and blackthorn blooms early offering vital food sources for emerging mining bees. Species such as Whitebeam or Rowan offer nectar sources at the end of the season.
- Connectivity for wildlife to use as sheltered corridors – this could include planting in a line and/or near within the proximity of other nearby tree's, hedgerows or densely vegetated areas. This can include structural and spatial planting so that the so that the canopies of trees on adjoining properties connect.
- Locally successful and climate change resilience species to optimise the chances of survival in local soil types, into the future. These species will typically have strong roots and be lower maintenance having adapted to flourish regionally or locally.
- No non-native, invasive species (e.g., rhododendron).

In preparation for upcoming mandatory BNG requirements, developers should be aware of the CIEEM recommended good practice principles to be followed, in conjunction with the mitigation hierarchy:

Mandatory BNG principles:

- Utilise the mitigation hierarchy to minimise impact on biodiversity
- Eliminate negative impacts on biodiversity that cannot be offset elsewhere
- Involve all pre-development and post-development stakeholders in forming mandatory net gain solutions

- Understand the potential risks and variable factors to achieving biodiversity net gain
- Determine a suitable method to secure measurable net gains for biodiversity
- Ensure the best possible outcomes from biodiversity net gain
- Offer nature conservation that exceed the BNG requirements
- Focus on generating long-term environmental benefits from biodiversity net gain
- Cover all areas of sustainability, incorporating economical and societal factors
- Communicate all biodiversity net gain outcomes with complete transparency

5.0 References

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6.0 Appendix

Appendix 1 – Protected Species Legislation

Bats

In England and Wales, all bat species and their roosts are legally protected under the Wildlife and Countryside Act (1981) (as amended); the Countryside and Rights of Way Act, 2000; the Natural Environment and Rural Communities Act (NERC, 2006); and by the Conservation of Habitats and Species Regulations (2019) (as amended). You will be committing a criminal offence if you:

- Deliberately capture, injure or kill a bat
- Intentionally or recklessly disturb a bat in its roost or deliberately disturb a group of bats
- Damage or destroy a bat roosting place (even if bats are not occupying the roost at the time)
- Possess or advertise/sell/exchange a bat (dead or alive) or any part of a bat
- Intentionally or recklessly obstruct access to a bat roost

Barbastelle, Bechstein's, greater horseshoe, lesser horseshoe, brown long-eared, soprano pipistrelle, and noctule bats are all priority species under the UK Biodiversity Action Plan (UK BAP) and have also been adopted as species of principal importance in England under Section 41 of the NERC Act 2006.

Badgers

Badgers and their setts are afforded strict protection under the Protection of Badgers Act 1992. This Act consolidates past badger legislation and, in addition to protecting the badger itself, makes it an offence to damage, destroy or obstruct badger setts. Badgers are also protected under Schedule 6 of the Wildlife and Countryside Act 1981 (as amended), and listed under Appendix III of the Bern Convention, as a species that is in need of protection but may be hunted in exceptional instances. Only badger setts that are currently in use are covered by wildlife legislation.

Birds

All wild birds in the UK are protected under Section 1 of the Wildlife and Countryside Act 1981 (as amended) which makes it an offence to intentionally kill, injure or take any wild bird or to take, damage or destroy the nest or its eggs. Some bird species, such as the barn owl Tyto alba, are listed in Schedule 1 of the 1981 Act and receive further protection, making it an offence to intentionally or recklessly disturb these birds whilst building a nest or in, on or near a nest containing eggs or young; or to disturb dependent young of such a bird. The NERC Act (2006) inserts a new schedule into the Wildlife and Countryside Act (1981) to protect the nests of some bird species that regularly re-use their nests, even when the nests are not in use. This protection currently applies to golden eagle, white-tailed eagle and osprey.

Reptiles

All British reptiles are listed under schedule 5 of the Wildlife and Countryside Act 1981 (as amended) and are therefore protected from intentional killing or injury. This is largely as a consequence of a national decline in numbers associated with habitat loss. Two scarcer native British reptiles (smooth snake *Coronella austriaca* and sand lizard *Lacerta agilis*), are afforded 'full' protection. This legislation makes it an offence to intentionally or recklessly kill, injure, disturb, take, possess or sell these species (in all life stages). It is also illegal to damage, destroy or obstruct access to places they use for breeding, resting, shelter and protection. All species of reptile are priority species in the UKBAP and have been adopted as Species of Principal Importance under Section 41 of the NERC Act (2006) in England (Section 42 in Wales).

Amphibians

Great crested newts (GCN's) and their habitats are fully protected by the Conservation of Habitats and Species Regulations (2019) and partially protected under the Wildlife and Countryside Act 1981 (as amended). This legislation makes it an offence to kill, injure or capture GCN's, their young or eggs, or destroy / damage their ponds or places of shelter used for breeding or protection. The great crested newt is also a Priority species in the UK Biodiversity Action Plan (UKBAP), and had been adopted as a Species of Principal Importance in England under Section 41 of the NERC Act 2006. The natterjack toad *Epidalea calamita* is fully protected under Schedule 5 of the Wildlife and Countryside Act 1981 (as amended) and Schedule 2 of The Conservation of Habitats and Species Regulations 2019 making it a European Protected Species. The natterjack toad is also a priority species under the UK Biodiversity Action Plan. The pool frog *Rana lessonae* is protected under the Conservation (Natural Habitats & C.) Regulations 1994 (as amended). As a European protected species the deliberate capturing, disturbing, injuring or killing of this species is prohibited, as is damage or destruction of its breeding sites or resting places. The pool frog is also a priority species under the UK Biodiversity Action Plan due to a 100% decline over 25 years (1980-2005). Common toads are also designated UKBAP species due to a serious decline of populations across large areas of southern, eastern and central England, thought to be mainly due to changes in habitat management, mortalities on the roads, and climate change.

Dormice

Common dormice *Muscardinus avellanarius* and their habitats are fully protected by both the Wildlife and Countryside Act 1981 (as amended) and the Conservation of Habitats and Species Regulations (2019). This legislation makes it an offence to kill, injure, disturb or capture dormice, or destroy or obstruct their resting or breeding places. The dormouse is also a priority species under the UK Biodiversity Action Plan and has been adopted as a species of Principal Importance in England under Section 41 of the NERC Act 2006 (section 42 in Wales) and so is protected from any adverse effects as a result of development.

Otters

Otters Lutra lutra are protected by both the Wildlife and Countryside Act 1981 (as amended) and The Conservation of Habitats and Species Regulations 2019. This legislation makes it is illegal to; deliberately or recklessly kill, injure or capture an otter, deliberately or recklessly disturb or harass an otter, damage, destroy or obstruct access to a breeding site or resting place of an otter.

The otter is also a UK BAP Priority Species and has been adopted as a Species of Principal Importance in England under Section 41 of the NERC Act 2006 (Section 42 in Wales) and the Conservation (Scotland) Act in Scotland.

Water Voles

Water voles *Arvicola terrestris* are fully protected under the Wildlife and Countryside Act 1981 (as amended). This legislation makes it an offence to kill or injure water voles, and to damage, destroy or obstruct access to places used for protection or shelter, and to disturb water voles whilst they occupy such a place. The water vole is also a Priority species in the UK Biodiversity Action Plan, and had been adopted as a Species of Principal Importance in England under Section 41 of the NERC Act 2006.

White-clawed Crayfish

The white-clawed crayfish *Austropotamobius pallipes* is protected under the Wildlife and Countryside Act 1981 (as amended), making it a criminal offence to; intentionally or recklessly kill or injure a white-clawed crayfish, or sell or attempt to sell any part of this species. The Habitats Regulations (2019) provide further protection through the declaration of Special Areas of Conservation (SAC). This protection aims to prevent commercial harvesting of white clawed crayfish and prohibits their capture without a licence. The white-clawed crayfish is also a Priority species in the UK Biodiversity Action Plan (BAP), and has been adopted as a Species of Principal Importance in England under Section 41 of the NERC Act 2006.

Hedgehogs

Hedgehogs are UK Biodiversity Action Plan (BAP) species, and therefore must be taken into consideration as part of development planning. A recent report (Wembridge, 2011) shows that hedgehog numbers have declined by 25% in the last ten years.

Stag Beetles

Stag Beetles *Lucanus cervus* are protected under section 5 of the Wildlife and Countryside Act 1981 (as amended). This legislation prohibits: The killing, injuring or taking of Stag Beetles; the damage, destruction, or obstruction of access to any structure or place which Stag Beetles use for shelter or protection; or the disturbance of Stag Beetles while they are occupying a structure or place which they use for that purpose.

Appendix 2 - Planning Policy and Legislation

Planning and Biodiversity

The biodiversity policies which are most relevant are the National Planning Policy Framework (NPPF, 2012), Biodiversity 2020, the Biodiversity Action Plan for Hampshire and the East Hampshire Biodiversity Action Plan 2009.

National Planning Policy Framework (NPPF) 2019

NPPF aims to minimise impacts on biodiversity and provide net gains in biodiversity where possible, contributing to the Government's commitment to halt the overall decline in biodiversity. Chapter 15 'Conserving and enhancing the natural environment' details what local planning policies should seek to consider with regard to planning applications.

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);

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;

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.

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;

d) development whose primary objective is to conserve or enhance biodiversity should be supported; while opportunities to incorporate biodiversity improvements in and around developments should be encouraged, especially where this can secure measurable net gains for biodiversity.

UK Biodiversity Action Plan & Habitats and Species of Principal Importance.

The UK Biodiversity Plan (BAP) was a programme designed to help conserve the UK's biodiversity. It led to the production of 436 action plans between 1995 and 1999 to help many of the UK's most threatened species and habitats to recover. A review of the UK BAP priority list in 2007 led to the identification of 1,150 species and 65 habitats that met the BAP criteria at UK level. Currently 56 Habitats of Principal Importance and 943 Species of Principal Importance are included within Schedule 41 of the NERC Act and these include species and habitats which were identified in the UK BAP and which continue to be considered to represent the conservation priorities of England in the UK Post-2010 Biodiversity Framework.

Species of Principal Importance and Habitats of Principal Importance are those identified as the most threatened and requiring conservation action under the Schedule 41 of the UK Biodiversity Action Plan & Habitats and Species of Principal Importance. Species include West European hedgehog, great crested newt, dormouse and common toad.

Wiltshire Biodiversity Action Plan (BAP) 2008

Background

Wiltshire's natural environment is arguably its greatest asset. Although Wiltshire is dominated by the vast sweeps of the chalk downs, its landscape is highly varied with intimate river valleys contrasting with open uplands and broad vales. This range and distribution of landscapes and habitats is a result of the underlying geological characteristics of the land upon which natural processes and human activities have operated in turn influencing patterns of land use as well as ecological and cultural character.

The chalk which dominates the south and east of the county has produced the vast open downlands of Salisbury Plain, Marlborough Downs and Porton Down; much of these landscapes are of national importance, as recognised by the North Wessex Downs Area of Outstanding Natural Beauty (AONB) designation, and are also internationally important for populations of rare birds and calcareous grassland habitats. In the southwest of the county the chalk has given rise to wooded downlands including Cranborne Chase AONB due to different land uses and functions in this area, which supports a large proportion of Wiltshire's remaining ancient woodland resource. The limestone in the northwest of the county supports a network of ridges and valleys including part of the Cotswolds AONB, supporting important river corridors, ancient woodlands, limestone grasslands and internationally important populations of bats. The band of greensand and clay which runs through the county, dividing the limestone from the chalk includes the important ancient hunting forests of Braydon and the extensive wetlands of the Cotswolds Water Park.

Rivers are also an important feature of the county, helping to shape its landscape. The most extensive river system is the Salisbury Avon draining to the south; this chalk river is internationally important for its habitats and bird life (designated as a Special Area of Conservation "SAC"). The Bristol Avon drains much of the north of the county, forming an important corridor for wildlife through the landscape and providing valuable ecosystem services to hundreds of thousands of residents in Wiltshire's towns and the cites of Bristol and Bath further downstream. The upper reaches of the River Kennet also drain to the east; this is another internationally important chalk stream and floodplain. A small area in the north of the county also drains into the upper reaches of the Thames, an area which includes internationally important hay meadows within the floodplain.

All of these national and international designations help to demonstrate that Wiltshire has been bestowed with a remarkable proportion of the UK and Europe's most important landscapes and wildlife. Wiltshire's distinctive landscapes create its unique identity and character, while its natural processes provide us with clean water, fresh air, and food, and its sensitive ecosystems underpin our entire natural environment.

Wiltshire's communities have played a vital role in shaping the natural environment we see today; without responsible land management and stewardship we would not still enjoy the relatively high-quality environments we enjoy today which have been all but lost from so many other parts of the country. However, at the same time Wiltshire's natural environment has

undergone slow and steady decline over the past century and this has the potential to accelerate in the future due to increasing pressures on land use and the effects of climate change. Wiltshire's Local Development Framework (LDF) provides an opportunity to set policies to manage land use in order to protect, maintain and enhance our valuable natural environment for future generations.

Aims and Objectives

The aim of this topic paper is to gather evidence to inform and contribute towards the preparation of the Wiltshire LDF, particularly the development of Core Strategy policies related to the natural environment; these policies are required in order to achieve the relevant strategic objective "To protect and enhance the natural environment". In order to achieve this aim the following objectives have been addressed:

- Review all relevant legislation and policy which set the statutory framework for the LDF;
- Collate and review the latest relevant empirical research; • Review the current local policy framework and its effectiveness through analysis of applications and consultation.
- Review available best practice / guidance;
- Consult with key stakeholders involved in protecting and enhancing the natural environment;
- Identify community aspirations through a public consultation of draft policy, a review of Community Area Plans and strategies, and analysis of previous public consultations;
- Identify other relevant plans and strategies in the county which LDF policies might contribute towards;
- Propose policy options to achieve the strategic objective; and • Develop policy wording for the preferred option.

Appendix 3 – Additional site photographs



Image 13. Wide view of site from the south-western boundary and area where proposed garage will be sited.



Image 14. Wide view of site from the north-eastern boundary.

Appendix 4 – Site & Location Plan

