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Report prepared for: Brian Parker

For the Site of: Bricket Lodge Sport and Country Club, Lye Lane, Hertfordshire AL2

3TF

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Cherryfield Ecology has prepared this report for the named clients use only.

Ecological reports are limited in shelf life, Natural England usually expect reports for licences to be no more than 12 months old and therefore should the project not proceed within 12 months of this report an updated survey should be undertaken in order to check for changes that may have occurred on site. Information is believed to be accurate at the time of survey; recommendations are made without bias based on good practice guidelines within the industry. However, species presence and ecological parameters can change over time.

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Ecological Appraisal (EA)

0.0 Non-Technical Summary

0.1 Background

This survey follows national guidelines JNCC (2010) allowing for a day-time inspection and recommends for further surveys, if considered necessary. If a deviation from the guidelines has been made, this will be detailed in the Method Section.

The following report details the findings and recommendations for the site of Bricket Lodge Sport and Country Club, Lye Lane, Hertfordshire AL2 3TF.

The client commissioned Cherryfield Ecology to undertake an EA as the proposals include for the demolition of existing buildings to be replaced with residential buildings and associated landscaping. Plans have been provided see Appendix I.

0.2 Results and Findings

- The site consists of eight buildings (B1 B8), hard-standing, bare ground, improved grassland, tall ruderal, scattered trees, dense scrub, scattered scrub, species-poor hedgerow and woodland.
- The site provides negligible potential for badger due to the lack of suitable habitat and limited connectivity to more suitable habitats.
- Bat presence is confirmed through dropping evidence that was found in Loft Space 1 of B1. Furthermore, open access was found at multiple points across the building including through an air vent and broken windows and in addition, potential roosting features found between the roof tiles across the roof of B1. Due to the aforementioned access points and roosting features B1 is considered to have high potential.
- The building B3 provides moderate potential for bats due to numerous gaps and access/exit points under the ridge tiles, within the external brick wall, and through broken windows found across this building.
- The buildings **B2** and **B8** provide **low** potential for bats due to limited gaps and access/exit points under the eaves and between loose roof tiles.



- The buildings B4, B5, B6 and B7 provide negligible potential for bats due to the lack of gaps and access/exit points suitable for use by roosting bats found across these buildings.
- The mosaic of habitats found on site which include dense scrub, scattered scrub, improved grassland, hedgerow and bare ground provide high potential for reptiles.
- The site provides low potential for GCN in some of the terrestrial habitat found on site, such as the hedgerow and scattered scrub habitats, as well as the debris and log pile features. No aquatic habitat was found on site, the nearest water bodies are located 745m south-east and 850m north of the site.
- The buildings (B1, B2, and B3), trees, scrub, and hedgerow habitats provide high potential for breeding birds.

0.3 Impact Assessment and Recommendations

- Badger No further surveys are necessary; however, if any badger setts are found throughout works, all works must stop, and advice sought.
- B1 Full roost characterisation surveys will be required to determine species, population and the entry/exit points used (three surveys, a minimum of two weeks apart).

A total of four surveyors to cover B1 will be required. These surveys must be undertaken within the May to September window (with September considered sub-optimal). Two of these surveys will need to be undertaken during the optimal timeframe of mid-May to August.

B3 - **Presence/likely absence surveys** will be required (two surveys, at least two weeks apart), four surveyors will be required to cover building **B3**; one of these surveys must be undertaken between May to August. If bats are found to be using B3, one further survey will be required.

B2 and B8 - **Presence/likely absence surveys** will be required (one survey), two surveyors will be required to cover building **B2**, and two surveyors will be required to





cover building **B8**; this survey must be undertaken between May to August. If bats are found to be using B2 and/or B8, two further surveys will be required.

- Breeding Birds No further surveys are recommended; however, the development should take place outside the nesting season (March to August). If this is not possible, it is recommended that a qualified ecologist is on site to ensure the buildings, trees, scrub and hedgerow habitats are not occupied by breeding birds, prior to demolition and removal. Should an occupied nest be found, a buffer zone would need to be created until the nest is no longer in use.
- GCN No further survey is necessary. A qualified ecologist will be required to supervise the clearance, via a destructive search, of potential hibernacula such as the log piles and debris on site. If GCN are found all works must stop and advice sought from a qualified ecologist.
- Reptiles **Presence/ likely absence surveys** for reptiles will be required to establish if any species are using the site. These will be done between the months of March and October. Bitumen tiles will be placed across the site in week one and will then be checked once a week over a seven-week period, in suitable weather (9°C to 18°C, no rain, little winds and sunny).

Habitat - No further survey is necessary. It is currently understood that the existing woodland on site will not be affected by the development. However, should the woodland be included within the plans for development, further survey will be required.

The findings outlined in this report are valid for one year, after which updated surveys will be required.



1.0 Introduction

1.1 Aim

The aim of this report is to inform of ecological constraints that may affect the development proposals and recommend to the client if further surveys are required for protected species. An impact assessment is undertaken at this stage; however, if further surveys are required, additional and unexpected impacts may result.

1.2 Background Information

The client, Brian Parker, has commissioned Cherryfield Ecology to undertake an EA for the site of Bricket Lodge Sport and Country Club, Lye Lane, Hertfordshire AL2 3TF. Planning permission is being sought for the demolition of existing buildings to be replaced with residential buildings and associated landscaping.

This survey has checked all habitats, buildings, trees (from ground level only) or structures due to be affected by the proposals on site; it includes checking for protected species, signs of protected species or habitat value e.g., crevices, badger setts, ponds etc. as well as mapping the habitats on site.

The inspection was conducted on the 05/01/2022.

The survey can only ever provide a 'snapshot' of the site at the time of the survey and circumstances may change following this report. Health and Safety restrictions or obstructions may limit the ability to find evidence.

Biological records have been requested to give the report context and allow a study of the surrounds. The information is often sensitive and therefore a synopsis is provided.

The survey can be conducted year-round with the optimal period between mid-March and mid-October (south)/1st April and 30th September (north). However, it can be limited due to bad weather and in the winter, when some species are not as active, thus evidence and species are often not found. During these periods, habitat value (likely presence) becomes more important to the assessment of the site.

Summary of legislation and National Planning Policy that protects wildlife in England:



- The Conservation of Habitats and Species (Amendment) (EU Exit) Regulations 2019.
- Wildlife and Countryside Act 1981 as amended.
- Countrywide and Rights of Way Act 2000.
- Natural Environment and Rural Communities Act 2006.
- National Planning Policy Framework ("NPPF").
- Circular 06/05.

This legislation makes it illegal to:

- Intentionally or deliberately kill, injure or capture a protected species.
- Deliberately disturb a protected species, whether at rest or not.
- Damage, destroy or obstruct access to a resting place.
- Possess or transport a protected species or any part of that species, unless acquired legally.
- Sell, barter, or exchange a protected species, or any part of a species.

1.3 Species Specific Information

All UK protected species have the same protection and the detail under Bats also applies to GCN, Dormouse, Otters and the two UK protected reptiles.

1.3.1 Breeding Birds

All nesting birds are protected under the Wildlife and Countryside Act (as amended) 1981, which makes it an offence to intentionally kill, injure or take any wild bird or take, damage, or destroy its nest whilst in use or being built, or take or destroy its eggs. Furthermore, several birds enjoy further protection under that Act and are listed on Schedule 1 of the Act. These further protected birds are also protected from disturbance, and it may be necessary to operate a "no-go" buffer zone around such nests - typically out to 5m.



1.3.2 Bats

All 18 species of bat common in the UK (17 known to be breeding) are fully protected under the Wildlife and Countryside Act (as amended) 1981 through inclusion in Schedule V of the Act. All bat species in the UK are also included in Schedule II of The Conservation of Habitats and Species (Amendment) (EU Exit) Regulations 2019, which transpose Annex II of the Directive 92/43/EEC 1992 on the Conservation of Natural Habitats and of Wild Fauna and Flora ("Habitats Directive") which defines United Kingdom protected species of animals.

Bats species are afforded further protection by the Countryside and Rights of Way Act 2000; and the Natural Environment and Rural Communities Act 2006.

This combined legislation makes it an offence to:

- Intentionally or deliberately kill, injure, or capture bats.
- Deliberately disturb bats, whether at roost or not.
- Damage, destroy or obstruct access to bat roosts.
- Possess or transport bats, unless acquired legally.
- Sell, barter, or exchange bats.

1.3.3 Reptiles

There are six species of reptiles in Great Britain (Edgar *et al.* 2010) and four of these are commonly found; the Grass Snake *Natrix natrix* and/or the Barred Grass Snake *Natrix helvetic*), Adder *Vipera berus*, Common Lizard *Zootoca vivipara* and Slow Worm *Anguis fragilis*.

All native British species of reptiles are legally protected through their inclusion in Schedule V of the Wildlife and Countryside Act 1981. As such, all species are protected from deliberate killing or injury. Therefore, where development is permitted, and there will be a significant change in land use, a reasonable effort must be undertaken to avoid committing an offence. The same act makes the trading of native reptile species a criminal offence without appropriate licensing.



Two species of reptile; the Smooth Snake *Coronella austriaca* and Sand Lizard *Lacerta agilis* are further protected under The Conservation of Habitats and Species (Amendment) (EU Exit) Regulations 2019, which defines UK protected species of animals ("rare reptiles").

1.3.4 Badgers

Badger *Meles meles* and its habitat are protected under The Protection of Badgers Act 1992, Schedule V of the Wildlife and Countryside Act 1981, and Appendix III of the Bern Convention 1979.

This legislation makes it an offence to:

- Kill, injure, take, or possess a badger.
- Interfere with, damage, or destroy a badger sett including e.g., obstruct access to a badger sett.
- Cruelly treat or harm a badger.
- Disturb a badger in a sett.

1.3.5 Great Crested Newts

Great Crested Newts (GCN) *Triturus cristatus* are listed in both The Conservation of Habitats and Species (Amendment) (EU Exit) Regulations 2019 and in Schedule V of the Wildlife and Countryside Act 1981.

GCN are afforded further protection by the Countryside and Rights of Way Act 2000; and the Natural Environment and Rural Communities Act 2006.



2.0 Methods

The survey follows the national guidelines JNCC (2010) and the following equipment is available for the inspection:

- Torches (e.g., LED Lensar type).
- Ladders (Standard 4m telescopic surveying ladder).
- Endoscope where holes, cracks and crevices are accessible.
- Mirrors (extendable and movable mirror face).
- Binoculars (Pentax close focus).
- Thermometer/hygrometer.
- Camera.
- Sample bags for collecting dropping and feeding evidence.

Target notes are made when appropriate to highlight, for example, protected species or an 'other feature(s)' of ecological note.

If a deviation from the guidelines has been made the reason and justification will be explained below:

No deviation from the standard guidelines has been made for this survey.

2.1 Limitations

This survey provides a snapshot of the site at the time of the survey only. Species are highly mobile and can turn up from time to time unexpectedly. All care has been taken to ensure the results and recommendations are suitable to the context of the development and the information gathered on surveys.

Table 1: Habitat value (likelihood) of protected species presence assessed against Collins (2016), Edgar *et al* (2010) and Natural England (2007) etc.

Likelihood of species	
presence (Habitat	Features that species can use, regardless of evidence being present.
Value)	





Confirmed Presence	Species are found to be present during the survey.
	Evidence of species is found to be present during the survey.
	Buildings, trees, or other structures with features of particular significance for use by protected
	species e.g., nesting habitat, roosting opportunities, and ponds.
Lisber likelihood of	Habitat of high quality for foraging e.g., broadleaved woodland, tree-lined watercourses, and
Higher likelihood of	grazed parkland.
presence	Site is connected to the wider landscape by strong linear features that would be used by
	commuting species e.g., river and or stream valleys and hedgerows.
	Site is close to known locations of records for protected species.
	Several potential habitat opportunities in buildings, trees, or other habitats.
	Habitat could be used for foraging e.g., trees, shrub, grassland, or water.
Moderate and Lower	Site is connected to the wider landscape by linear features that could be used by commuting
likelihood of species	species e.g., lines of trees and scrub or linked back gardens.
presence	A small number of less significant habitat opportunities.
	Isolated habitat for foraging e.g., a lone tree or patch of scrub.
	An isolated site not connected by prominent linear landscape features.
Negligible likelihood	No features suitable for roosting, minor foraging or commuting.
of species presence	



3.0 Results

The following section details the results of the desk study, inspection, and survey; it includes MAGIC information, biological records data, and map/aerial photo information. The results detail the building, structure, or tree (numbered for reference) description of any evidence found and habitat value if no evidence has been located.

3.1 Desk Study

The desk study is centred on Grid Reference - TL134028 and Postcode - AL2 3TF.

Table 2: Weather Records

Temperature	5.8°C
Cloud cover	20%
Precipitation	None
Wind	2/12

3.2 MAGIC

The following statutory sites and Natural England Protected Species (NEPS) have been located within the 2km search area (Figure 1).

- There are two statutory sites located within the search area. Bricket Wood Common Site of Special Scientific Interest (SSSI) is located approx. 1.1km south-west of the site. Moor Mill Quarry West SSSI is located approx. 650m east of the site.
- There are no NEPS licences granted for European protected species within the search area.



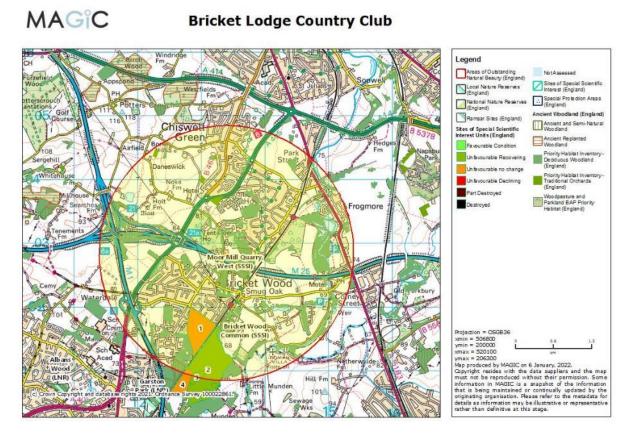


Figure 1: Magic Map Search

3.3 Biological Records Data

A standard 1km data search of existing records for protected species and nature reserves has been commissioned, below details the results and site context.

Biological records were obtained from Herts Environmental Records Centre (HERC) (2021), with a total of 5347 biological records provided.

Table 3	• Bio	Ingical	Records
Table J	. DIO	lugical	ILECOLUS

Species	Number of Records	Closest Record (accuracy)	Most Recent Record (year)
Amphibians Great Crest Newt <i>Triturus cristatus</i>	11	Approx. 305m (6 fig. grid ref.)	1998
Bats			



Brown Long-Eared Plecotus	auratus	2	A	pprox. 1.9km (4	Not provided
				fig. grid ref.)	
Common Pipistrelle Pipistrellu	s pipistrellus	19	A	opprox. 1.9km (4	2020
				fig. grid ref.)	
Daubenton's Myotis daubentonii		2	Ар	prox. 600m (4 fig.	Not provided
				grid ref.)	
Noctule Nyctalus noct	tule	7	A	pprox. 1.9km (4	2013
				fig. grid ref.)	
Soprano Pipistrelle Pipistrellu	ıs pygmaeus	7	A	pprox. 1.9km (4	2013
				fig. grid ref.)	
Unidentified Bat Chiropt	era sp.	13	Ар	prox. 600m (4 fig.	2020
				grid ref.)	
Mammals (exc. Bat	s)				
Badger Meles mele	s	19	Ар	prox. 890m (4 fig.	2019
				grid ref.)	
Hazel Dormouse Muscardinus	avellanarius	1	A	pprox. 1.1km (4	Not provided
				fig. grid ref.)	
Water Vole Arvicola amp	ohibius	3	A	pprox. 1.1km (4	1987
				fig. grid ref.)	
Reptiles					
Common Lizard Zootoca vivipara		1	A	pprox. 1.1km (4	Not provided
				fig. grid ref.)	
Grass Snake Natrix Helvetica		3	Ар	prox. 430m (6 fig.	1991
				grid ref.)	
Slow-Worm Anguis fra	gilis	1	A	pprox. 1.1km (4	1985
				fig. grid ref.)	
Other					
Birds		3832	A	pprox. Om (6 fig.	2020
				grid ref.)	
Invertebrates		1313	A	pprox. Om (6 fig.	2020
				grid ref.)	
Plants					
		n-Statutory Sites			
Name	Reference	Туре		Description/designated for	
	No.				
How Wood	76/021	Local wildlife s	ite	Not provided	



Birch Wood	76/020	Local wildlife site	Not provided
Blackgreen Wood	76/014	Local wildlife site	Not provided

3.4 Site Location and Surrounds

The site is in Bricket Wood, Hertfordshire and is surrounded by woodland and lowdensity urban sprawl in the immediate local. Table 4 details the commuting, feeding and habitat features in a 1km radius of the site.

Feature	Description
Water course	The River Ver is located approx. 1.4km east of the survey site.
Water bodies	The closest water body is located approx. 750m south-east of the site. In
	addition, there are water bodies located 815m south-east, 825m south-
	east, 850m north, 920m north and 960m north of the site.
Woodland	Woodland is located on site to the south and in its immediate surrounds
	to the east and west. There is also woodland located approx. 500m north-
	east, 350m south and 675m south-west of the survey site.
Linear e.g., hedgerows	There are numerous hedgerows scattered throughout the search area. The
	closest is located approx. 500m north of the site.
Pasture/arable/grassland	There is scattered arable land within the north-west and south-east of the
	search area. The closest arable field is located 460m north of the survey
	site.
Other	There are no other significant features within the search area.

Table 4: Habitat features suitable for use by protected species

3.5 Habitat, Building, Tree or Other Structure

This section details the structures/habitat reference and descriptions (see Figure 27 for Site Plan).

3.5.1 Habitats

3.5.2 Buildings

There are eight buildings on site (B1 - B8).



B1 is a brick -built and rendered, single-storey building with an M shaped open gable roof. The roof has overhanging eaves, dormer windows and slate roof tiles. The windows and doors are constructed of timber and have been boarded shut due to this building being derelict. Timber weatherboards and soffits are also present. B1 also has plastic rainwater goods.

B2 is a brick-built and part-rendered, single-storey building with an open gable roof. The roof has overhanging eaves and slate roof tiles. The windows and doors are constructed of timber and have been boarded shut due to this building being derelict. Timber weatherboards and soffits are also present. B2 also has plastic rainwater goods. B3 is a brick-built two-storey building with a M shaped open gable roof. The roof has overhanging eaves, concrete roof tiles and concrete ridge tiles. The windows and doors have been boarded shut due to this building being derelict. Timber weatherboards and soffits are also present. B3 also has plastic rainwater goods.

B4 is block-built single-storey building with an open gable roof. The roof has overhanging eaves, concrete roof and ridge tiles. Timber weatherboards and soffits are also present.

B5 is a brick-built single-storey residential building with an open gable roof structure. The roof has overhanging eaves, concrete roof tiles and concrete ridge tiles. Timber weatherboards and soffits are also present. B5 also has plastic rainwater goods. B6 is a brick-built single-storey residential building with an open gable roof structure. The roof has overhanging eaves, interlocking concrete roof and concrete ridge tiles. Timber weatherboards and soffits are also present. B6 also has plastic rainwater goods.

B7 is a brick-built two-storey residential building with an open gable roof structure and dormer windows. The roof has overhanging eaves, interlocking concrete roof and concrete ridge tiles. Timber weatherboards and soffits are also present. B7 also has plastic rainwater goods.

B8 is a brick-built single-storey residential building with an open gable roof structure. The roof has overhanging eaves, interlocking concrete roof and concrete ridge tiles. Timber weatherboards and soffits are also present. B8 also has plastic rainwater goods.



Other structures on site include shipping containers. These shipping containers are of metal construction and have no roof voids or loft spaces internally.



Figure 2: Front elevation of B1



Figure 3: Rear elevation of B1





Figure 4: Front elevation of B2



Figure 5: Front elevation of B3





Figure 6: Rear elevation of B3



Figure 7: Front elevation of B4





Figure 8: Front elevation of B5



Figure 9: Front elevation of B6





Figure 10: Front elevation of B7



Figure 11: Front elevation of B8





Figure 12: Example of shipping container

Internally, B1 has two loft spaces (Loft Space 1 and Loft Space 2). Both loft spaces have a king post beam structure. The underside of the roof of Loft Space 1 was fully lined with sarking boards. The underside of the roof of Loft Space 2 is lined with bitumen felt. The floor of both loft spaces was lined with insulation and boards which have significant damage due to flooding.

Internally, B2 has one loft space with a braced king post beam structure. The underside of the roof is lined with bitumen felt and the floor has insulation and is partly boarded. This loft space floor has been damaged by flooding.

Internally, B3 has no loft space, and the roof is vaulted due to the internal roof area being converted for the use of additional room space.

Internally, B4 has no loft space, and also has a vaulted roof.

Internally, the loft spaces of B5, B6 and B7 have a single loft space above each apartment. These loft spaces are divided by a block wall. All loft spaces have a braced king post beam structure. The underside of the roof is lined with bitumen felt and the floor has insulation and is partly boarded.

Internally, B8 has one loft space with a king post beam structure. The underside of the roof is lined with bitumen felt and the floor is fully insulated.





Figure 13: Loft Space 1 of B1



Figure 14: Loft Space 2 of B1





Figure 15: Loft space within B2



Figure 16: Example of a loft space within B5





Figure 17: Example of loft space within B6



Figure 18: Example of a loft space within B7



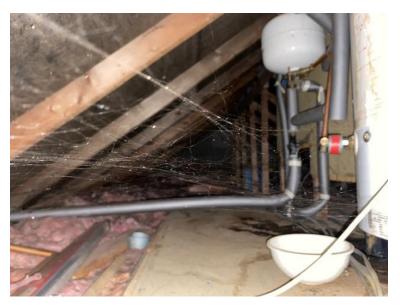


Figure 19: Example of a loft space within B8

3.5.3 Hardstanding

There are areas of hardstanding across the site which form the driveways, path and parking areas.



Figure 20: Example of hardstanding on site

3.5.4 Trees

There were numerous native and non-native trees found to be present across this site. These tree species include oak *Quercus sp.*, Pine *Pinus sp.* and Ash *Fraxinus sp.*





Figure 21: Example of scattered trees on site

3.5.5 Dense Scrub

Dense scrub was found predominantly to the east of the site. This habitat is dominated by bramble *Rubus fruticosus*.



Figure 22: Example of dense scrub

3.5.6 Scattered Scrub

Dense scrub was found predominantly to the north of the site. This habitat is dominated by bramble *Rubus fruticosus*.





Figure 23: Example of scattered scrub

3.5.7 Tall Ruderal

There was tall ruderal vegetation found to be present on site and was located predominantly to the north-east of the site at the time of survey. There was also scattered tall ruderal vegetation to the south-east of the site. This habitat is dominated by Canadian fleabane *Conyza canadensis*. Abundant nettle, *Urtica dioica* and occasional rosebay willowherb *Chamaenerion angustifolium* were also present.



Figure 24: Example of tall ruderal habitat



3.5.8 Improved Grassland

There was improved grassland found to be present to the north-east of the site. This habitat is dominated by false oat grass *Arrhenatherum elatius*, with perennial rye grass *lolium perenne* and occassional species such as spear thistle *Cirsium vulgare* and Herbrobert *Geranium robertianum* were also present.



Figure 25: Example of improved grassland on site

3.5.9 Bare ground

Areas of bare ground are found scattered across the site which form the paths and some car parking.



Figure 26: Example of bare ground present on site



3.5.10 Woodland - Broadleaved semi-natural woodland

There is broadleaved woodland at the south of the site. Tree species present include oak *Quercus sp.* and Ash *Fraxinus sp.*

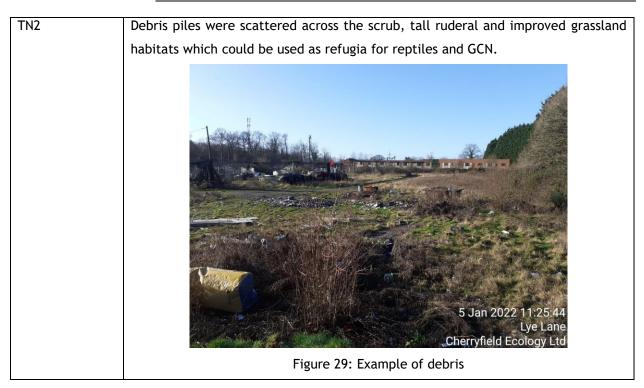


Figure 27: Example of woodland

Target Note	Description
TN1	Log piles were found to be present on site which could be used as refugia for reptiles
	and GCN.
	5 Jan 2022 11:16:57 Cherryfield Ecology Ltd
	Figure 28: Log piles

Table 5: Target Notes





3.6 Species List

Annual Meadow-Grass	Poa annua
Ash	Fraxinus excelsior
Blackthorn	Prunus spinosa
Bramble	Rubus fruticosus
Buddleia	Buddleja davidii
Canadian Fleabane	Conyza canadensis
Cat's-Ear	Hypochaeris sp.
Cleavers	Galium aparine
Creeping Buttercup	Ranunculus repens
Dandelion	Taraxacum officinale
False Oat-Grass	Arrhenatherum elatius
Ground-Ivy	Glechoma hederacea
Herb-robert	Geranium robertianum
Holly	llex aquifolium
lvy	Hedera helix
Nettle	Urtica dioica
Oak	Quercus sp.
Perennial Rye-Grass	Lolium perenne



Rosebay willowherb Spear thistle Yorkshire Fog Chamaenerion angustifolium Cirsium vulgare Holcus lanatus



Figure 30: Site Plan

3.7 Evidence or Likelihood of Species Presence

This section details the evidence located and likelihood of species presence.

3.7.1 Bats

Table 6: Bats, evidence, or the potential for the species

Bats found	No bats were found at the time of the survey.
Evidence of bat use	11 bat droppings were found within Loft Space 1 of B1 at the time of the
	survey.

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Potential for bat use	Level of likelihood of presence - Confirmed and High (B1). Moderate (B3).
	Low (B2 and B8). Negligible (B4 - B7).
	Numerous access/exit points were found to be present within the air
	vent and broken windows of B1. Furthermore, gaps were found to be
	present between the slate tiles of B1.
	r
	Figure 33: Example of access/exit point in air vent of B1
	5 Jan 2022 to 322 Cherryfield Loology Lid
	Figure 34: Example of access/exit point in dormer of B1





Figure 35: Example of access/exit point in window of B1



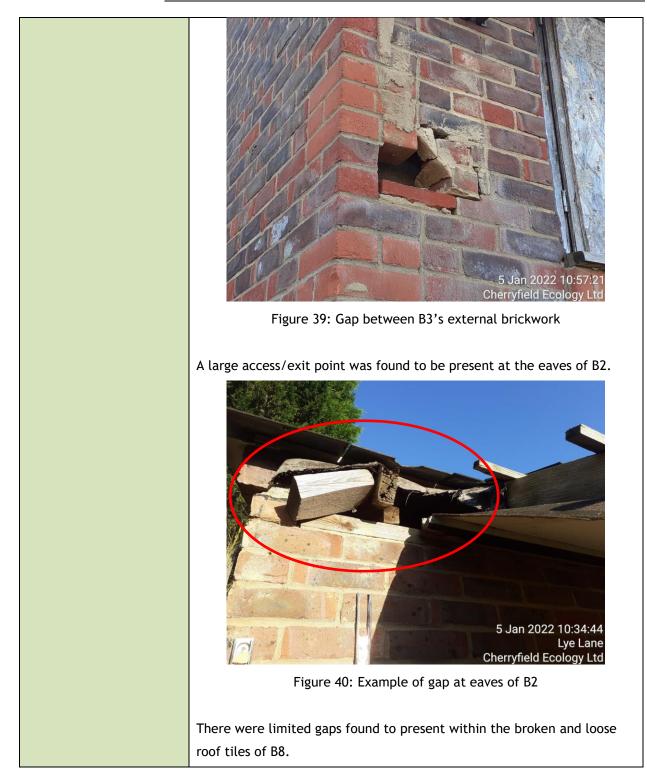
Figure 36: Example of gap between tiles of B1

Numerous access/exit points were found to be present in the broken windows and between the bricks of the external wall of B3. Furthermore, gaps were found to be present underneath the ridge tiles of B3.











5 Jan 2092 10:49:08 24 Jane 26 Jane
Figure 41: Example of gap in roof tiles of B8

3.7.2 Badgers

Table 7: Badgers, evidence, or the potential for the species

Badgers found	No badgers were found at the time of the survey.
Evidence of badger use	No evidence of badger use was found at the time of the survey.
Potential for badger use	Level of likelihood of presence - Negligible.
	This is due to a lack of suitable habitat found on site and lack of
	connectivity to more suitable habitats.

3.7.3 Breeding Birds

Table 8: Breeding birds, evidence, or potential for the species

Breeding birds found	No breeding birds were found at the time of the survey.
Evidence of breeding bird use	No evidence of breeding birds was found at the time of the survey.
Potential for breeding bird use	Level of likelihood of presence - High. The buildings (B1, B2 and B3), trees, scrub and hedgerow habitats
	provide nesting potential for breeding birds.



3.7.4 Amphibian

Table 9: Amphibians, evidence, or potential for species use

•	
Amphibians found	No Great Crested Newt (GCN) were found at the time of the survey.
Evidence of amphibian use	No evidence of GCN was found at the time of the survey.
Potential for amphibian use	Level of likelihood of presence - Low.
	The log piles and debris features found on site provide potential
	refugia habitat for GCN. In addition, some of the other terrestrial
	habitat on site also has low potential for GCN, but it should be noted
	that there are no nearby water bodies in the immediate vicinity of
	site. The closest water body to site is located 750m south-east,
	however, this is separated from site by both the M25 motorway and
	low-density urban sprawl.
	Figure 43: Example of log piles suitable for GCN





3.7.5 Reptile

Table 10: Reptiles, evidence, or potential for species use

Reptiles found	No reptiles were found at the time of the survey.
Evidence of reptile use	No evidence of reptiles was found at the time of the survey.
Potential for reptile use	Level of likelihood of presence - High.
	The scrub, tall ruderal, bare ground, improved grassland and hedgerow
	habitats found on site form a mosaic which is known to be used by
	common reptile. Additionally, the log and debris piles also found on site
	have the potential to act as hibernaculum.





3.7.6 Other Species e.g., Hazel Dormouse

Table 11: Other protected species, evidence, or potential for species use

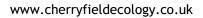
Species found	No other protected species were found at the time of the survey.
Evidence of species use	No evidence of other protected species was found at the time of the survey.
Potential for species use	Level of likelihood of presence - Negligible.



No suitable habitat was found on site.

3.7.7 Invasive Non-Native

No invasive non-native species were found at the time of the survey.





4.0 Conclusions, Discussion, Impacts and Recommendations

The following section details the conclusions, discussion, impacts and recommendations in the context of the proposed works.

Building/tree/structure reference - (B1, B2, B3, B4, B5, B6, B7 and B8).

4.1 Conclusion and Discussion

The proposals include for the demolition of existing buildings to be replaced with residential buildings and associated landscaping. The site consists of eight buildings (B1 - B8), hard-standing, bare ground, improved grassland, tall ruderal, scattered trees, dense scrub, scattered scrub, species-poor hedgerow and woodland.

The site provides **negligible** potential for badger due to the lack of suitable habitat and limited connectivity to more suitable habitats.

Bat presence is confirmed through dropping evidence that was found in Loft Space 1 of **B1**. Furthermore, there were access/exit points in the air vent, and broken windows and there were gaps found between the roof tiles, all of which provide **high** potential for bats in this building.

The building **B3** provides **moderate** potential for bats due to access/exit points found to be present through the broken windows, as well as suitable potential roosting features found in gaps under the ridge tiles of this building.

The buildings **B2** and **B8** provide **low** potential for bats due to limited gaps and access/exit points at the eaves of B2 and between the loose and broken roof tiles of B8.

The buildings **B4**, **B5**, **B6** and **B7** provide **negligible** potential due to the lack of gaps and access/exit points suitable for use by roosting bats found across these buildings.

The site provides low potential for GCN. The log and debris piles found on site provide potential refugia habitat for GCN. In addition, some of the other terrestrial habitat, including hedgerow and dense scrub also provides low potential for GCN, but it should be noted that there are no nearby water bodies in the immediate vicinity of site. The closest water body to site is located 750m south-east, however, this is separated from site by both the M25 motorway and low-density urban sprawl.



The scrub, tall ruderal, bare ground, improved grassland and hedgerow habitats found on site form a mosaic which is known to be used by common reptile. Additionally, the log and debris piles also found on site have the potential to act as hibernaculum.

The buildings (B1, B2 and B3), trees dense scrub and hedgerow habitats provide **high** potential for breeding birds.

It is understood that the woodland habitat on site is to be retained and will be unaffected by the development.

4.2 Potential Impacts

Impact assessments must be proportionate to the scale of the development (CIEEM, 2018) and Table 12 details a proportionate impact assessment based on current information.

	Bats - A bat roost will be lost in the development.
Impact	Breeding Birds - Active nests may be lost in the development.
	GCN - Loss of habitat.
	Reptiles - Loss of habitat.
Characterisation of	Bats - A low-level loss/impact at a local level.
	Breeding Birds - A low-level loss/impact at a local level.
unmitigated	GCN - A low-level loss/impact at a local level.
impact on the feature	Reptiles - A low-level loss/impact at a local level.
Effect without	Without mitigation individual bats, birds, GCN and reptiles could be killed,
mitigation	injured, or trapped during the works.
Mitigation and/or potential	See Table 13 and Table 14
enhancement	
	Bats - If lost roosts are replaced by bat boxes, the effects would be
Significance of effects	negligible.
of residual impacts	Breeding Birds - If lost habitat is replaced by bird boxes and mitigation is
	followed, the effects would be negligible.
(after mitigation)	GCN - If mitigation is followed, the effects would be negligible.
	Reptiles - If mitigation is followed, the effects would be negligible.

Table 12: Impact Assessment





4.3 Recommendations

- Badger No further surveys are necessary; however, if any badger setts are found throughout works, all works must stop, and advice sought.
- B1 Full roost characterisation surveys will be required to determine species, population and the entry/exit points used (three surveys, a minimum of two weeks apart).

A total of four surveyors to cover B1 will be required. These surveys must be undertaken within the May to September window (with September considered sub-optimal). Two of these surveys will need to be undertaken during the optimal timeframe of mid-May to August.

B3 - **Presence/likely absence surveys** will be required (two surveys, at least two weeks apart), four surveyors will be required to cover building **B3**; one of these surveys must be undertaken between May to August. If bats are found to be using B3, one further survey will be required.

B2 and B8 - **Presence/likely absence surveys** will be required (one survey), two surveyors will be required to cover building **B2**, and two surveyors will be required to cover building **B8**; this survey must be undertaken between May to August. If bats are found to be using B2 and/or B8, two further surveys will be required.

Breeding Birds - No further surveys are recommended; however, the development should take place outside the nesting season (March to August). If this is not possible, it is recommended that a qualified ecologist is on site to ensure the buildings, trees, scrub and hedgerow habitats are not occupied by breeding birds, prior to demolition and removal. Should an occupied nest be found, a buffer zone would need to be created until the nest is no longer in use.



- GCN No further survey is necessary. A qualified ecologist will be required to supervise the clearance, via a destructive search, of potential hibernacula such as the log and debris piles found on site. If GCN are found all works must stop and advice sought from a qualified ecologist.
- Reptiles **Presence/ likely absence surveys** for reptiles will be required to establish if any species are using the site. These will be done between the months of March and October. Bitumen tiles will be placed across the site in week one and will then be checked once a week over a seven-week period, in suitable weather (9°C to 18°C, no rain, little winds and sunny).

Habitat - No further survey is necessary. It is currently understood that the existing woodland on site will not be affected by the development.

4.4 Recommended Enhancements and Mitigation

Work	Specification
General	No development will occur until bat surveys consistent with the Bat Surveys for
Information	Professional Ecologists: Good Practice Guidelines (3rd edition) (Collins et al.
	2016) have been undertaken in the appropriate survey season, May to
	September (Mid-May to August optimal).
	The Three Tests to be answered before planning can be granted (NE, 2017):
	Test 1: Regulation 53(2)(e) states: a licence can be granted for the purposes of
	"preserving public health or public safety or other imperative reasons of overriding
	public interest including those of a social or economic nature and beneficial
	consequences of primary importance for the environment".
	Test 1 can be achieved via the 'imperative reasons of overriding public interest'.
	Although not for the ecologist to determine the planning officer will on grant of
	consent.
	Test 2: Regulation 53(9)(a) states: the appropriate authority shall not grant a
	licence unless they are satisfied "that there is no satisfactory alternative".
	Test 2 would be achieved on the grant of content as no other sites have been
	considered for the development.

Table 13: Recommended Mitigation



-	
	<i>Test 3</i> : Regulation 53(9) (b) states: the appropriate authority shall not grant a
	licence unless they are satisfied "that the action authorised will not be
	detrimental to the maintenance of the population of the species concerned at a
	favourable conservation status in their natural range."
	Test 3 will be achieved once full emergence/re-entry surveys are conducted and
	full mitigation appropriate to species and population has been designed and
	implemented via an NEPS licence issued from the statutory authority (Natural
	England), if this becomes necessary following a dusk and pre-dawn survey.
Mitigation and	Under licence demolition of suitable bat roosting features e.g., beam structure,
Compensation	roof tiles etc. will require the supervision of a bat licensed ecologist.
to be installed	The suitable bat roosting features e.g., beam structure, roof tiles. will be stripped
via an NEPS	by hand only. All areas across the roof/wall tops/weather boarding etc. will be
licence	checked for bats i.e., endoscope (where possible) and via destructive search. If
application (if	bats are found these will be removed by hand (Ecologist only) and placed in bat
required)	
- 1 /	boxes that will be in place before works begin.
	Bat boxes will be installed. These will be no less than 3m above ground level and
	away from any neighbouring ledge to prevent local cats predating on bats using the
	boxes.
	A minimum of two Schweglar 1FF or similar boxes (Figure 47) will be hung on the
	trees at a minimum of 3m from ground level and face south/southwesterly. These
	boxes are known to be used by crevice and void dwelling species.
	Figure 47: Schweglar 1FF bat box
	Two bat tubes can also be built into the new dwellings, these will be located on a
	Two bat tubes can also be built into the new dwellings, these will be located on a
	gable end towards the apex or at eave height, ideally, they will face in the same
	direction as the known roost in the building and if used as enhancement will face
	south or north (Figure 48)
	•



	Figure 48: Example of bat tube
	Commuting bats maybe using the grounds and surrounds - therefore, any tree, hedges or linear feature should be retained were possible.
Lighting	Any lighting near or shining onto any trees or buildings, especially those with bat boxes in or commuting routes shown to be present at further survey stage, should be designed to minimize the impact it has on potential bat roosting and commuting.
	Lighting should be in line with the BCT lighting guidelines (Bats and Lighting in the UK (Bat Conservation Trust, 2018) https://www.theilp.org.uk/documents/guidance-note-8-bats-and-artificial-
	<u>lighting/</u>
	This lighting should be of low level, be on downward deflectors and ideally be on PIR sensors. Using LED directional lighting can also be a way of minimizing the light spill affecting the habitat. No up-lighting should be used.
	This will ensure that the roosting and commuting resources that the bats are likely to be using is maintained.

Table 14: The local authority has a duty to enhance biodiversity in its duties, the following are suggested enhancements that are easily installed into a development and can be cost effective whilst ensuing a gain for local wildlife.

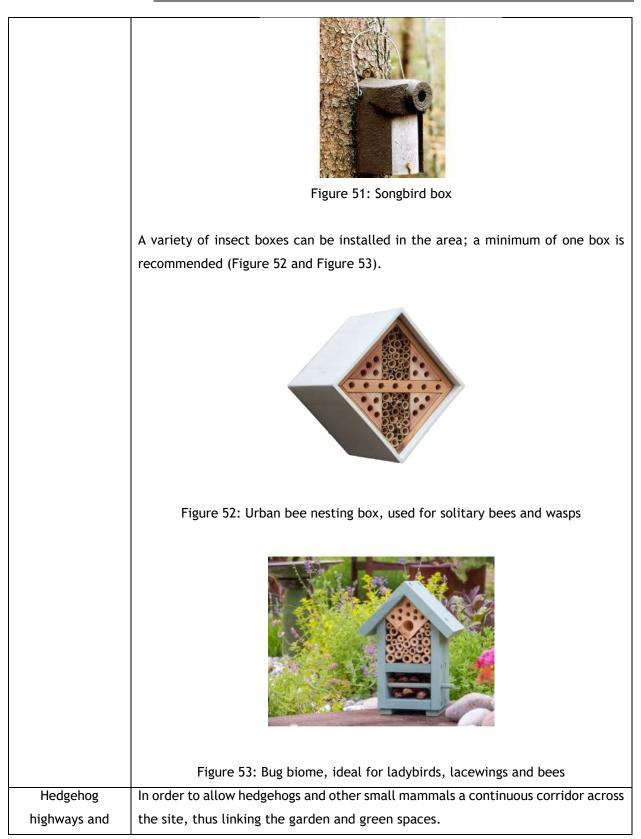
Work	Specification
Bat, bird, and	Bat tubes can be installed into the new dwellings.
insect box	
enhancement.	





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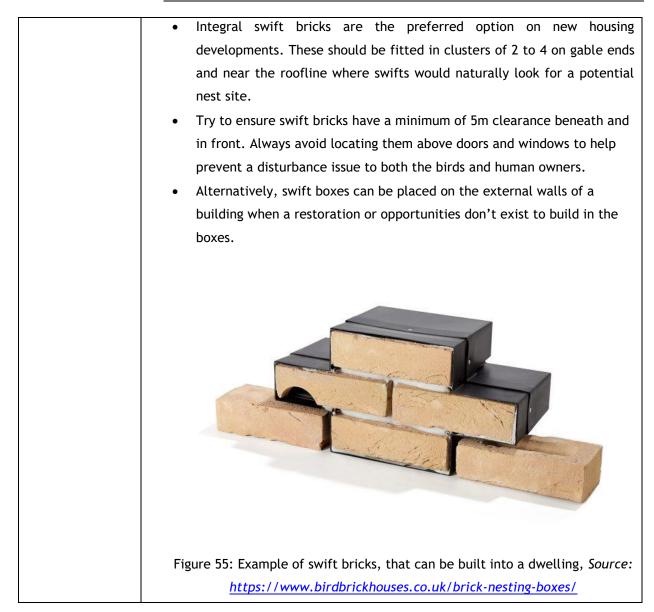




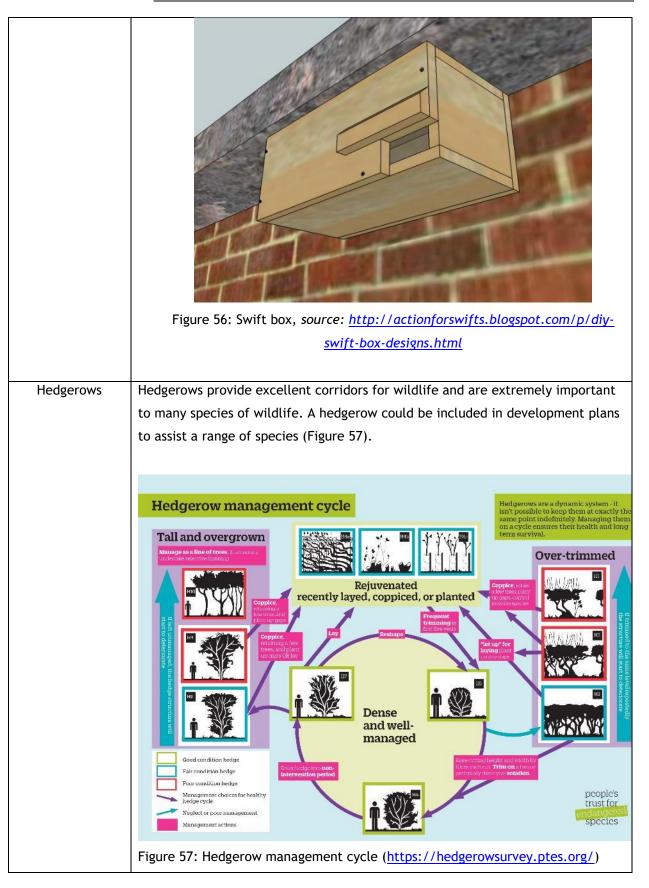


I	
small mammal	• A 13cm x 13cm is sufficient for any hedgehog to pass through. This will be
connectivity.	too small for nearly all pets (Figure 54).
	• Remove a brick from the bottom of the wall, creating a 13cm x 13cm
	hole.
	• Cut a small hole in your fence if there are no gaps.
	• Dig a channel underneath your wall, fence, or gate.
	• Ideally, rather than walls or fences, a hedge will provide foraging, shelter,
	and a route along as well as through the site.
	How to make a hedgehog highway
	You will need () If your neighbour is happy, remove your fence panel. (4) If there are any very rough edges, use the sond poper to smooth them down.
	A fence panel A fence panel A fence panel A fence panel
	Ruler
	Coping sow Coping sow
	Sendpaper Sendpaper
	(3) Ask an adult to help you cut the hele using the coing saw.
	Talk to your neighbour! It's important to get their
	consert to uit a hole in the Fance - explain that heightess need to move
	between yardens to access enough food.
	Whom 2 Think
	www.wildlifewatch.org.uk
	Figure 54: Hedgehog Highway, Source - Wildlife Trust -
	http://7474fab53f1b6ee92458-
	8f3ac932bad207a00c83e77eaee8d15c.r12.cf1.rackcdn.com/Hedgehog%20
	Highway.jpg
Swifts Apus apus	Swift nest boxes are recommended due to the increased lack of nesting
	opportunities swifts are finding in modern built dwelling homes.
	Information is adapted from the RSPB <u>https://www.rspb.org.uk/our-work/rspb-</u>
	news/news/stories/swift-advice-for-ecologists/ and
	http://actionforswifts.blogspot.com
	The following will be undertaken:
	• Wherever possible, swift bricks will be installed into new or restored
	buildings to increase the overall availability of nest sites for swifts and
	other species. Birds such as house sparrow can use swift bricks, but swifts
	cannot use house sparrow nest bricks.
	currier use rouse sparrow rest briefs.











ſ	Reptiles Habitat	Log and brash piles can enhance the existing habitat by providing cover for
	Enhancement	reptiles, as well as enhancing prey availability. Also, including reptile
		hibernacula and basking banks into development plans will enhance the habitat
		for reptiles. (Edgar <i>et al.,</i> 2010).



5.0 References

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6.0 Appendix I Proposed plans

