

14 Cuckoo Bushes Lane, Chandlers Ford

Bat Survey Report
Mr S. Kwiatkowski



18th July 2024

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The views and opinions contained within the document are based on a reasonable timeframe between the completion of the survey and the commencement of any works. If there is any delay between the commencement of works that may conflict with timeframes laid out within this document or have the potential to allow the ingress of protected species, a suitably qualified ecologist should be consulted.

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.

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Executive Summary

Executive Summary

- In June 2024 Ahern Ecology Ltd were commissioned by Mr S Kwiatkowski to undertake a Preliminary Ecological Appraisal (PEA) of 14 Cuckoo Bushes Lane, Chandlers Ford, SO53 1JX.
- The PRA assessed building 1 – main house to have LOW bat roost potential based on the frequency of Potential Roost Features (PRF) recorded.
- **Based on these findings one activity survey of the building was required to confirm the presence/absence of bats using these structures to roost.** This survey took place on 4th July 2024.
- **No bats were recorded emerging from building 1 – main house during the survey.**
- **Bats do not constitute an ecological constraint to the proposed works.**
- Mitigation and habitat enhancement recommendation are set out in section 4.2.

Introduction

1.1 Introduction

In June 2024 Ahern Ecology Ltd were commissioned by Mr S Kwiatkowski to undertake a Preliminary Roost Assessment (PRA), also known as a bat inspection survey at 14 Cuckoo Bushes Lane, Chandlers Ford.

The PRA assessed building 1 – main house to have LOW bat roost potential based on the frequency of Potential Roost Features (PRF) recorded.

Based on these findings one activity survey of building 1 was required to confirm the presence/absence of bats using these structures to roost. This survey took place on 4th July 2024.

1.2 Site Location and Description

14 Cuckoo Bushes Lane, hereafter referred to as 'the Site', is situated in Chandlers Ford (SU 43122 21881). An aerial photo view of the site can be seen in Figure 1 below.

Figure 1. Red line boundary for the Site.



1.3 Development Proposals

The current proposals are:

- Extension of dormer window on the eastern elevation.
- Extension to southern and northern elevations

1.4 Survey Objectives

The objectives of the bat inspection survey comprise the following:

- Assess the building within the survey area for the potential for bats to use them to roost.

The objectives of the bat activity survey comprise the following:

- Confirm the presence/absence of bats using the building;
- Confirm which species of bat and in what number are present; &
- Confirm how bats are using the building.

1.5 Quality Assurance

All ecological surveys are led by Ecologists who are members of the Chartered Institute of Ecology and Environmental Management (CIEEM) at the appropriate level. By joining the CIEEM staff sign up to a professional code of conduct.

Methodology

2.1 Dusk emergence survey

One bat activity survey was undertaken in Summer 2024, see Table 1, below, for details.

Table 1. Dusk Emergence Survey Dates.

Survey date	Building surveyed	Number of surveyors	Start time	Finish time	Temperature °
04/07/2024	building 1 - main house	2	21:09	22:28	16

The dusk emergence surveys commenced approximately 30 minutes before sunset and continued for 60 minutes after sunset.

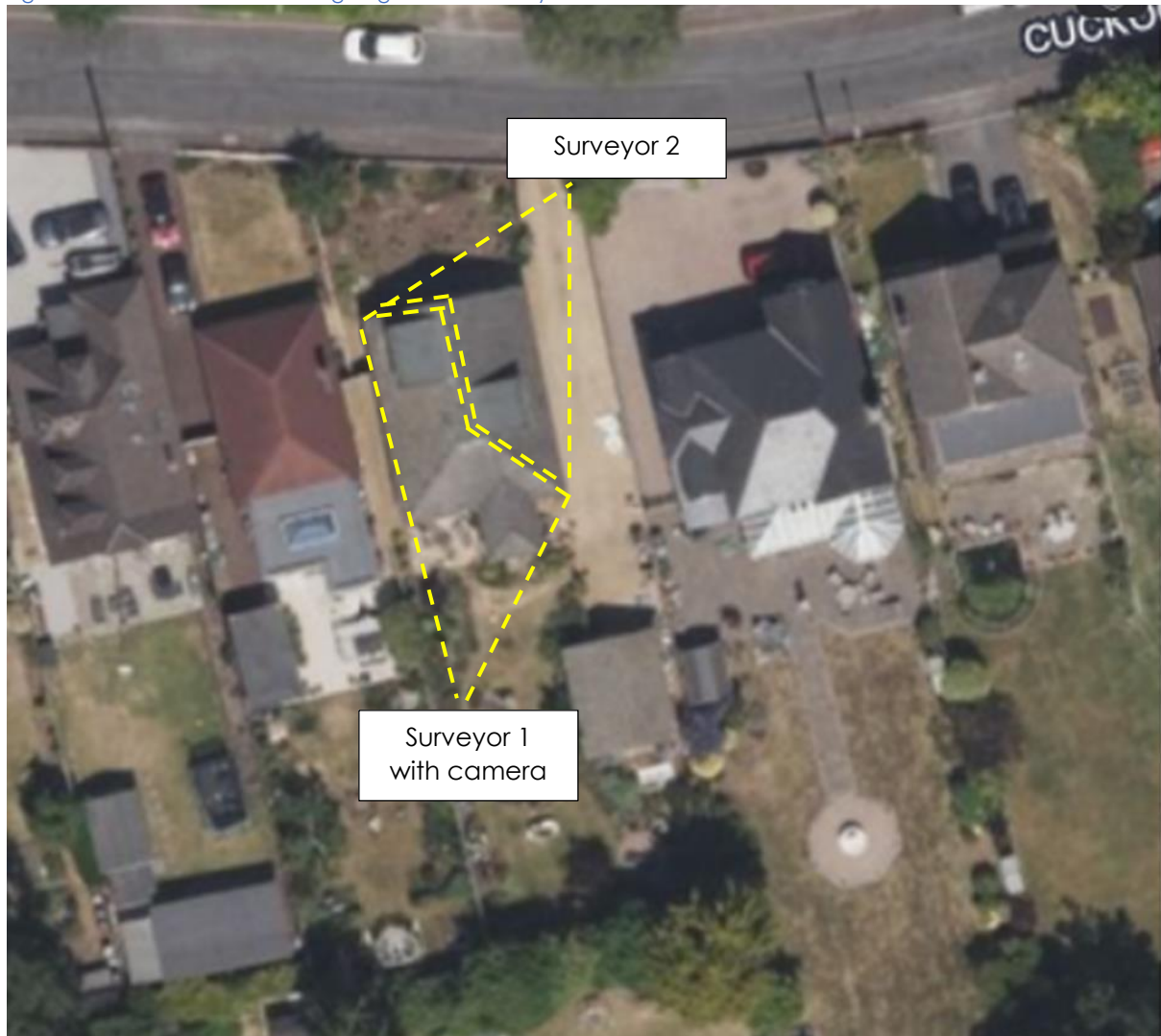
Two surveyors with bat recording equipment and infra-red video cameras were present in order to survey the required angles of the building. The time, location, number and species were recorded for each bat leaving or returning to a roost. Bat passes by foraging or commuting bats encountered during the survey were also recorded using standardised forms. Equipment used:

- Echo Meter Touch 2 ultra-sonic modules connected to a tablet/ipad
- Anabat Scout – Full-spectrum Bat recorder
- Canon XA30 camcorders
- Canon A35 camcorders

Location of the surveyors:

The surveyors were located in such a way as to achieve coverage of the required areas of the buildings during the survey. See Figure 2, below, for the location.

Figure 2. The location and viewing angles of the surveyors.



2.2 Limitations

The data provided by the online resources were not exhaustive. It is possible that bat species not included in the data search occur within the vicinity of the proposed development site.

The internal and external inspection survey provides a snapshot of conditions at the time of survey. Bats are mobile creatures that will move into and out of areas.

The details within this report will remain valid for a period of 12 months; beyond that date it is advised that a review of ecological conditions is undertaken.

Results

3.1 Activity Survey

There was good weather with a light breeze and moderate cloud cover at times during the survey.

The results of the dusk activity survey are set out in Table 2, below.

Table 2. Bat Activity Survey Results – Bat Emergence

Survey date	Site	Survey type	Bats recorded	Number recorded
04/07/2024	building 1 - main house	dusk emergence	none	n/a

Details of bats recorded across the wider site are set out in Table 3, below.

Table 3. Bat Activity Survey Results – Ambient bat activity

Survey date	Site	Survey type	Bats recorded	Number recorded
04/07/2024	building 1 - main house	dusk emergence	common pipistrelle	9
			Nathusius' pipistrelle	2
			noctule	1
			whiskered	2

Discussion and Requirements

4.1 Discussion

4.1.1 Bat Activity Survey results

No bats were recorded emerging from building 1 – main house during the survey.

Bats do not constitute an ecological constraint to the proposed works.

The findings of this report are valid for 12 months from the issue.

4.2 Recommendations

Mitigation measures:

- Prior to any works taking place on site a Harlech woodstone bat box will be erected on a tree adjacent to the site at a height at least 3m above the ground.
- The building on site will be inspected by a Natural England C2 licenced ecologist immediately prior to any demolition/roof strip of the existing building. The ecologist will use a flexible endoscope to assist with this survey.
- The “demolition” phase of the proposed development will take place between late March and late October.
- Should any bats be encountered during the proposed works all activity should stop immediately and a Natural England C2 licenced ecologist should be contacted for advice on how to proceed.

Habitat enhancement measures:

- One Ibstock bat brick (or similar) - <https://www.ibstock.co.uk/product/ecohabitats/bat-box?page=1&> Installed at a height of at least 3m in the extension, under the eaves and in direct sunlight.

- One Harlech bat box - https://www.birdfood.co.uk/harlech-woodstone-bat-box-black?gclid=EAlalQobChMlwlT2pqD_glVyZ7tCh1AoAVbEAAYAiAAEgLxGfD_BwE. Installed at a height of at least 3m on a tree
- One Ibstock swift brick - https://www.ibstock.co.uk/product/ecohabitats/swift-box?page=1&_. Installed under the eaves at a height of at least 3m above the ground in the extension.
- One hedgehog house - <https://www.arkwildlife.co.uk/product/dome-hedgehog-house/> will be installed in the garden of the property EITHER under a hedge to the rear of the property OR under a brash pile to the rear of the house.
- One insect block - https://www.birdfood.co.uk/woodstone-insect-block-grey?utm_source=google_shopping&gclid=EAlalQobChMlrZm8-ZqD_glVEmHmCh2g5g_FEAQYAiABEgJu4fD_BwE. Installed at a height of 1.5m above the ground on a south facing tree or building elevation.

References

Collins, J. (ed.) (2023) Bat Surveys for Professional Ecologists: Good Practice Guidelines (4th edn.) The Bat Conservation Trust, London.

Gunnell, K., et al (2010) Designing for Biodiversity: A technical guide for new and existing buildings. (2nd edn). RIBA.

Mitchell-Jones, A. J. (ed.) (2004) Bat Workers' Manual (3rd edn). JNCC

5.1 Legislation

5.1.1 Bats

All species of bat found in the UK are listed under Schedule 5 of *The Wildlife and Countryside Act 1981* (as amended 2018) and are afforded protection under Section 9(1), Section 9(4)(b&c) and Section 9(5) of the Act. Under this legislation, a person is guilty of an offence if he intentionally or recklessly:

- Kills or injures any bat;
- Disturbs any bat while it is occupying a structure or place which it uses for shelter or protection; or
- Obstructs access to any structure or place which any bat uses for shelter or protection.

Bats are afforded additional protection through their inclusion on Schedule 2 of *The Conservation of Species and Habitats Regulations 2017* (as amended). Under Part 3 of this legislation, a person is guilty of an offence if he:

- Deliberately captures, injures or kills a bat;
- Deliberately disturbs a bat; or
- Damages or destroys a bat breeding site or resting place.

Disturbance of animals includes in particular any disturbance which is likely to impair their ability to survive, breed or reproduce, rear or nurture their young, migrate or hibernate. It also includes any disturbance likely to affect significantly the local distribution or abundance of the species. Consequently, attention should be given to dealing with the modification or development of an area if aspects of it are deemed important to bats, such as flight corridors and foraging areas.

5.1.2 Breeding Birds

Wild birds, their nests and eggs, are afforded protection under Section 1(1) of *The Wildlife and Countryside Act 1981* (as amended). Under this legislation, a person is guilty of an offence if he intentionally:

- Kills, injures or takes any wild bird;
- Takes, damages or destroys the nest of a wild bird included in Schedule ZA1;
- Takes, damages or destroys the nest of any wild bird while that nest is in use or being built; or
- Takes or destroys an egg of any wild bird.