

Urban Tree Experts

BS5837 – Tree Surveys – Ecological Consulting

PRELIMINARY ECOLOGICAL APPRAISAL (BATS) FOR GARAGE AT 6 SOANE END EMMER GREEN



**Prepared for:
Mr A Thomas
Copse Cottage
6 Soane End
Emmer Green
RG4 8QW**

16 June 2021

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CONTENTS

Executive Summary

1. Introduction

- 1.1 Instruction
- 1.2 Aims and Objectives
- 1.3 Proposed works
- 1.4 Surveyor Background and Experience

2. Legislation and Planning Policy

- 2.1 Legislative Background

3. Site Location and Description

- 3.1 Site Location
- 3.2 Site Description

4. Survey Methodology

- 4.1 Pre-Survey Data Search
- 4.2 Daylight Survey
- 4.3 Constraints

5. Survey Findings

- 5.1 External Inspection
- 5.2 Internal Inspection

6. Evaluation

7. Conclusions

- 7.1 Interpretation
- 7.2 Contingency plan

8. References

9. Queries

Appendix 1

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The validity of this report ceases at the prescribed time limit or after 12 months from the site inspection, or if the site conditions change due to unspecified works that affect the site whichever is the sooner.



Executive Summary

Urban Tree Experts was commissioned by Mr A Thomas to conduct a preliminary ecological appraisal (bats) of a garage at 6 Soane End, Emmer Green, Berkshire, RG4 8QW. This is to support a current planning application to Reading Borough Council, number 210519.

The site visit was carried out on Thursday 10 June 2021 at 12.00 midday and during daylight hours. An internal and external inspection of the garage took place, to look for signs of bats.

The preliminary ecological appraisal (bats) comprised a detailed search of the interior and exterior of the garage for bats, signs of bats and features suitable for use by roosting bats. This includes droppings, internally or externally, scratch marks, rubbing and staining at exit holes, live or dead bats and other features such as missing tiles, this list is not exhaustive.

A desk top study was conducted prior to the survey to review existing information about the site and its surroundings and to inform the design of subsequent bat surveys, if required. The desk top study was conducted based upon a 2km search radius, it revealed one statutory designated site (Clayfield Copse) lies within 2km of the proposed development site. There was also one current European Protected Species Licences (EPSLs) for bats that has been granted within the search radius of the proposed development.

Externally, there was no evidence of bats (current or historically) within the garage. The building is in a good condition and has no visible roosting opportunities externally or internally which could be utilised by bats.

Due to the absence of roosting potential and the lack of evidence of bats found during the detailed inspection, it is concluded that there is negligible potential for roosting bats to be present within the building. Based on the recommendations in the Bat Workers Manual and the Bat Surveys Good Practice Guidelines prior to works, no further survey effort is required.



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1. Introduction

1.1 Instruction

Urban Tree Experts was instructed by Mr A Thomas to conduct a preliminary ecological appraisal of the garage at 6 Soane End, Emmer Green, Berkshire, RG4 8QW to support a current planning application to Reading Borough Council.

1.2 Aims and Objectives

The preliminary ecological appraisal (bats) is designed to:

- Identify the presence/likely absence of bats within the building.
- Provide information on the status of bats using the building (currently or previously).
- To add confidence where no bats are found, or to categorise the nature of a roost where evidence of bats are found.
- To establish whether further surveys, mitigation or an EPSL is required.

The preliminary ecological appraisal (bats) and report writing were carried out in accordance with Bat Surveys for Professional Ecologists: Good Practice Guidelines (3rd edition, Bat Conservation Trust, 2016).

1.3 Proposed Works

The survey was commissioned in connection with a forthcoming planning application to Reading Borough Council (number 210519) which seeks to erect a front dormer to existing garage.

1.4 Surveyor Background and Experience

Both the preliminary ecological appraisal for bats and the report were completed by Simon Holmes MSc. Simon holds Class 3 (CL19) and 4 Bat (CL20) Licenses (Nos. 17637 and 17638) and a Science and Education license (SCI29096). He has 32 years' experience of carrying out bat surveys and bat conservation work.

2. Legislation and Planning Policy

2.1 Legislative Background

All species of British bat are protected under the Conservation of Habitats and Species Regulations 2017 and the Wildlife and Countryside Act 1981, as amended. Under this legislation it is an offence to kill or injure a bat or interfere with any roosting or resting site. A bat roost is interpreted as "*any structure or place used for shelter or protection*" whether or not bats are present at the time. A summary of the main legislation and planning considerations are included at Appendix 1.

Seven species of bat are also Species of Principal Importance for nature conservation in England under Section 41 of the Natural Environment and Rural Communities Act 2006. This places a duty on all government departments to have regard for the conservation of these species and on the Secretary of State to further, or promote others to further, the conservation of these species.



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3. Site Location and Description

3.1 Site Location

The building is located at Grid Reference SU 7107 7698, see Figure 1 below. An overview of the immediate area is shown on Figure 2, courtesy of Bing Maps.

Figure 1. Garage at 6 Soane End, Emmer Green, highlighted.

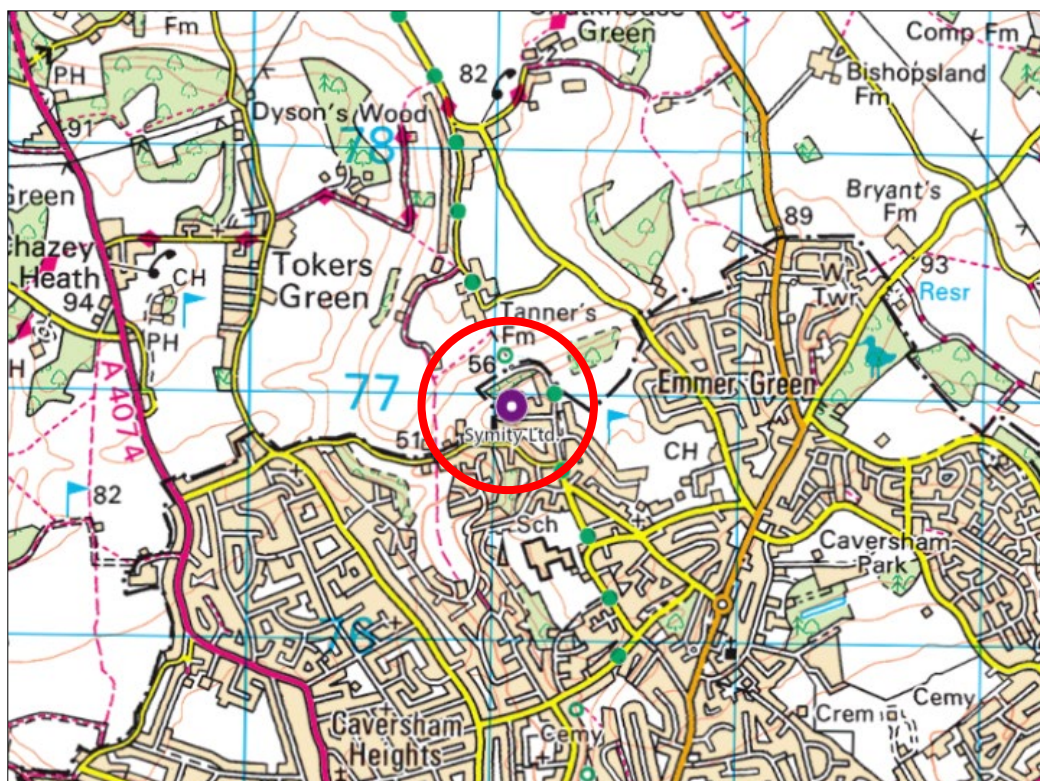
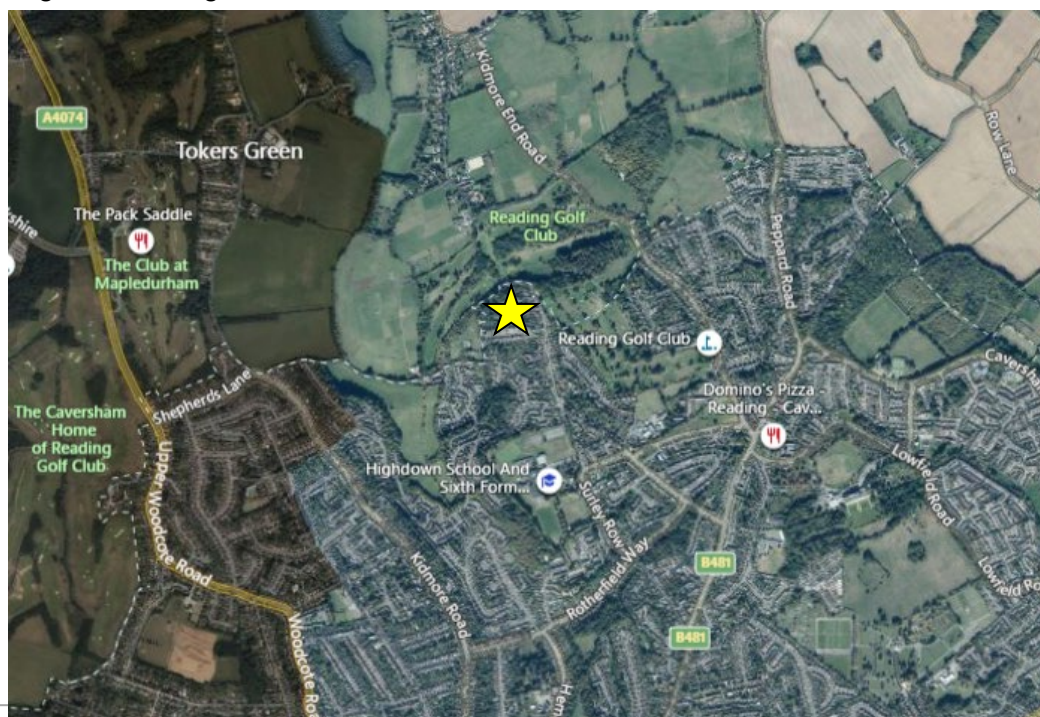


Figure 2. Garage at 6 Soane End, Emmer Green, overview of the immediate area.





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3.2 Site Description

The application site comprises a detached brick-built property with attached double garage on the front, left hand gable end, see cover photograph. The remainder of the proposed development site comprises a block paved driveway, with lawns and mature trees and shrubs to the front, see Figure 3 below. To the rear are a broad selection of herbaceous shrubs and mature trees, see Figure 4 below. The site itself offers good foraging and commuting habitat for bats.

Figure 3. Tarmacked area around garage. 6 Soane End, Emmer Green. 10.06.21



Figure 4. Rear garden. 6 Soane End, Emmer Green. 10.06.21





4. Survey Methodology

4.1 Pre-Survey Data Search

Google Earth and MAGIC maps (magic.defra.gov.uk) websites were used prior to the survey to determine the suitability of the surrounding habitat to support roosting bats and to identify any statutory designated sites within 2km of the site. Due to the urbanised area, scale of the proposed development, and the very local impact that may occur, no data was sought from local records center at this time.

The site is situated on a modern development in Emmer Green, a suburb of Reading, and surrounded by properties and gardens of similar sizes and styles. There are small pockets of woodland in close proximity to the site, which are likely to provide good habitat for roosting, foraging and commuting bats and are within travelling distance for bats. Further afield lie areas of parkland, woodland, wetlands and golf courses, which are likely to provide good habitat for bats, although there is limited ecological connectivity from the site to these areas as there are main roads and housing developments separating them from the site.

Clayfield Copse Local Nature Reserve (LNR) lies within 2km of the site, although there is no direct ecological connectivity from the site to the LNR. A search of the Magic interactive website revealed that one current EPSLs for bats has been granted within 2km of the site, the details of which are provided in Table 1 below.

Table 1. Current EPSLs for bats within 2km of the site

EPSL reference	Licence end date	Species on licence
2017-28760-EPS-MIT	05/2022	Common pipistrelle and Brown long-eared

4.2 Daylight Survey

The preliminary ecological appraisal (bats) of the garage at 6 Soane End, Emmer Green, Berkshire, RG4 8QW was carried out by Simon Holmes on Thursday 10 June 2021 at 12.00 midday. The weather conditions for the survey were overcast with a temperature of 23 degrees. Equipment used included a high-powered torch, a thermal spotter, digital camera on a telescopic pole and a ladder.

During the preliminary ecological appraisal (bats), an external and internal inspection of the garage was carried out to identify any signs of occupation by bats and features that could offer potential roosting sites following standard survey guidelines. Features investigated included:

- Construction of the building – soffits, loft space, tiles/slates, lead flashings etc.
- Building condition – structure of roof and walls.
- Internal conditions – microclimate stability, draughts etc.
- Access points – potential entry and exit points for bats.
- Roosting points – cracks and crevices, between underlay and roofing tiles/slates.



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Field signs that would indicate the presence of bats were searched for. These included:

- Bat droppings on the floor and walls of the building.
- Feeding remains (particularly butterfly and moth wings).
- Evidence of urine and/or oily staining around possible roost entrances.
- Presence of areas cleared of cobwebs.
- Where a breathable roofing membrane has been fitted staining on the membrane may suggest use by bats.
- Odour can sometimes suggest the present of bats.
- Squeaking and chattering can reveal bats roosting between the tiles and roofing underlay.

The main property will not be affected by the planning proposal and was therefore not inspected.

4.3 Constraints

Full access to the site during the visit was made possible by the occupant. The void above the garage has been converted to habitable accommodation with no access to the remaining eaves areas. The roof over the garage has no features suitable for roosting bats and therefore the lack of access to the under eaves was not considered to be a material consideration.

5. Survey Findings

5.1 External Inspection

The external features of the garage were examined for signs described in section 4.2. Windowsills, exposed features around the windows, fascia's and walls were inspected for any evidence of bat droppings or staining.

The garage is constructed of red brick with a pitched roof covered in well-fitting cement tiles, see Figure 4 below. The ridge tiles are sealed, and the eaves blocked with a plastic rodent mesh, see Figure 5 on page 9. The fascia's and verges are tight fitting with no gaps suitable for bats, see Figure 6 on page 9.

No bats or evidence of bats was recorded during the external inspection of the garage and externally there are no obvious visible features externally on the building which could be utilised by crevice dwelling bats.



Figure 4. Well-fitting roof tiles. Garage at 6 Soane End, Emmer Green.
10.06.21



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Figure 5. Ridge tiles and sealed eaves. Garage at 6 Soane End, Emmer Green.
10.06.21



Figure 6. Fascia and verge. Garage at 6 Soane End, Emmer Green. 10.06.21.





5.2 Internal Inspection

An internal inspection of the garage was undertaken and the building was examined for any signs of bats (as described in section 4.2).

The garage contained a car and personal belongings, but this did not restrict the inspection, see Figure 7 below. The roof of the garage is sealed to the rafters above and the loft converted to habitable accommodation, see Figure 8 below.

No bats or evidence of bats was recorded during the internal inspection of the garage and it provides no roosting opportunities for bats.

Figure 7. Internal space of garage at 6 Soane End, Emmer Green. 10.06.21



Figure 8. Converted loft over garage. Garage at 6 Soane End, Emmer Green. 10.06.21





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6. Evaluation

The bat roost potential of the features within the site have been assessed with reference to the criteria laid out in the Bat Mitigation Guidelines (Mitchell-Jones, 2004). These criteria are listed below with the features **highlighted in bold**.

The likelihood of bat roosts being present will be higher where structures:

- are of a pre-20th Century construction;
- are in a lowland rural setting;
- have woodland, **mature trees**, species-rich grassland and water **nearby**;
- have large dimension roof timbers with cracks, joints and holes;
- have numerous crevices in stonework and structures;
- have an uneven roof covering with gaps, though not too draughty;
- have hanging tiles or roof cladding, especially on south-facing walls;
- **have a roof warmed by the sun**;
- are disused or little used; largely undisturbed;
- provide appropriate hibernation conditions, such as abandoned mines, tunnels, kilns, or fortifications; or
- **Recent and historical records of bat roosts in the general area.**

The likelihood of bat roosts being present will be lower where structures:

- **are in an urban setting with little green space**;
- are subject to heavy disturbance (constant movement due to draughts and noise, also unstable microclimate);
- **have a small, cluttered roof void (particularly for brown long-eared)**;
- **are of a modern construction with few gaps or crevices that bats can fly or crawl through (though pipistrelle bats may still be present)**;
- are comprised of prefabricated steel or sheet materials; (some sections);
- are active industrial premises.

Please note that the above list provides generic screening criteria only and there are exceptions to consider.

7. Conclusions

7.1 Interpretation

The combined evidence from the internal and external inspection of the garage provides a high level of confidence in support of the opinions as set out in this report. There are no visible features externally in which crevice dwelling bats could roost, internally there are no roosting opportunities for bats. Informed by the results of the survey and the factors highlighted in Section 6, it is concluded that there is negligible potential for roosting bats. Based on recommendations in the Bat Workers Manual and the Bat Surveys Good Practice Guidelines, no further survey effort is required.

7.2 Contingency Plan

In the unlikely event that bats are found during the proposed works, all work must stop, and advice sought from Urban Tree Experts or another licenced bat ecologist.

If, for whatever reason, there is a time delay of greater than 12 months between this survey and the commencement of work, then the survey should be repeated as the condition of the building may have changed and bats may start roosting at the site.



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8. References

Collins, J (2016). Bat Surveys for Professional Ecologists: Good Practice Guidelines (3rd Edition). Bat Conservation Trust (BCT), London.
HM Government (2017) Conservation of Habitats and Species Regulations.
HM Government (1981) The Wildlife and Countryside Act.
HM Government (2006) Natural Environment and Rural Communities Act.
Mitchell-Jones, A.J. & McLeish, A.P. (1999). Bat Workers' Manual (2nd Edition). Joint Nature Conservancy Committee, Peterborough.

9. Queries

Any queries regarding this report should be addressed, in the first instance, to Urban Tree Experts:

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APPENDIX 1

In summary, the legislation combined makes it an offence to:

- Intentionally or recklessly damage, destroy or obstruct access to a structure or place used for shelter by a bat.
- Intentionally or recklessly disturb bats; in particular any disturbance which is likely to impair the ability of bats to survive, breed or reproduce or nurture their young; or in the case of hibernating or migrating bats, to hibernate or migrate.
- Intentionally or deliberately kill, injure or take any bat.

Planning Considerations:

Government guidance to Local Planning Authorities stipulates the need to consider biodiversity and protected species during the consideration of planning applications. The NPPF makes clear that the planning system should help minimise the impacts that development can have on biodiversity and provide net gains in biodiversity where possible. In addition, the ODPM Circular 04/2005 states *“It is essential that the presence or otherwise of protected species, and the extent that they may be affected by the proposed development, is established before the planning permission is granted, otherwise all relevant material considerations may not have been addressed in making the decision”*.

Policy CS36 of the Reading Borough Core Strategy states *“Development should retain, protect and incorporate features of biodiversity or geological interest (including protected species and their habitats) found within the application site into their schemes. On sites with recognised biodiversity or geological value, development will not be permitted where there would be a direct or indirect adverse impact on the site, unless it can be clearly demonstrated that: -*

- i. The need for development clearly outweighs the need to protect the value of the site; and*
- ii. Appropriate compensation, impact minimisation, mitigation and compensation are provided”*.

Developments that compromise the protection afforded to bats or roosts under the provisions of the Conservation of Habitats and Species Regulations 2017 and the Wildlife and Countryside Act 1981 will require a European Protected Species (EPS) licence from Natural England (NE).

NE, the government’s statutory conservation advisory organisation, is responsible for issuing EPS licences that would permit activities that would otherwise lead to an infringement of the Habitat Regulations.

Three tests must be satisfied before this licence (to permit otherwise prohibited acts) can be issued:

- Reg 44(2)(e) – the derogation is “in the interests of public health and public safety, or for other imperative reasons of overriding public interest, including those of a social or economic nature and beneficial consequences of primary importance for the environment”.
- Reg 44(3)(a) – there is “no satisfactory alternative” to the derogation.
- Reg 44(3)(b) –the derogation is “not detrimental to the maintenance of the populations of the species concerned at a favourable conservation status in their natural range”.

Tests (a) and (e) can be met with the issue of planning permission for the proposed works. Test (b) is determined by NE’s ecology department that requires the development of a suitable mitigation strategy that would ensure that any bats present on site, are retained at the same population level or better.