Brooks Ecological
Grounded advice

# The Crescent Cudworth, Barnsley


## Bat Emergence Survey Report

Barnsley Metropolitan Borough Council

08/08/2025

Report Ref. ER-8569-02

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| **Report reference** | **ER-8569-02** Bat Emergence Survey Report |
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| **Authorised** | Josh Birchall BSc (Hons) MCIEEM<br>Principal Ecologist |
| **Date** | 08/08/2025 |
| **Report duration** | In accordance with CIEEM (2019), unless otherwise stated the findings of this report remain valid for a period of 18 months. After this period advice should be sought on the scope of any updating work required. |
| **Records** | As good practise Brooks Ecological may submit records of bats found during this survey effort to the Local Ecological Record Centre, at/or after the time of planning application. |



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# Executive Summary

The survey objectives were to assess the status of bat roosting at the proposed development site, and to characterise any roosts found.

A single emergence survey was carried out in August 2025 and found a likely absence of bat roosts at the Crescent, Cudworth.

# Contents

# Introduction

1. Subsequent to recommendations set out in the Preliminary Roost Assessment, Brooks Ecological was commissioned to carry out a Bat Emergence Survey at the proposed development Site at The Crescent Cudworth, Barnsley.
2. The objective of the survey was to assess the status of bat roosting at the proposed development site. Emergence survey was determined to be the most appropriate survey method to confirm presence or likely absence.
3. An analysis of the site context and desk study regarding records of Local bat populations has been carried out and is detailed within Brooks Ecological PRA Report ER-8569-01.
4. Within the above report the Site was assessed as providing features with low bat roost suitability; in accordance with current best practice guidelines, buildings of low suitability need a single evening emergence survey in order to confirm the presence or likely absence of roosting bats. The Survey extent can be seen in Figure 1, below.

**Figure 1** The surveyed building – red line


# Methods

5. Survey and assessment was directed by Sam Kitching BSc (Hons) MCIEEM. Sam has over 10 years of experience undertaking bat surveys in a professional capacity and is registered to use the Bat Survey Class Survey Licence WML CL18 (Level 2).
6. Brooks Ecological specialises in bat surveys ranging from individual buildings through to complex sites requiring numerous visits with large teams. The survey effort, number of personnel and number of visits required to be able to properly evaluate the building(s) used by bats is informed by findings of Brooks Ecological Preliminary Roost Appraisal, detailed in our separate report ER-8569-01. We also refer to the Bat Conservation Trust Survey Good Practice Guidelines (2023). However, these guidelines are not prescriptive, and we approach each site individually as required using our professional judgement and significant experience base.
7. In this case, a single visit with a team of 10 surveyors was deemed necessary to fully evaluate the potential use of the Site for roosting.
8. The survey was carried out with two surveyors positioned in 5 survey locations around the building to cover all aspects where bats could potentially emerge or return, and to establish activity levels around the Site. This was due to the Site being classed as 'Code 4', as stated in the PRA Report ER-8569-01, in which case surveyors doubled up so each survey location had two surveyors for safety reasons.
9. The surveyors were in place at least 15 minutes before sunset and left once all species of bat would be expected to have left a roost and patterns of activity within the Site had been appraised.
10. The emergence survey was undertaken in August 2025, during optimal survey conditions. Survey conditions are summarised below/overleaf:

**Table 1** Survey Conditions (recorded from Met Office Weather Map at time of survey).

| Survey | Date | Sunset | Ambient Conditions | Invertebrate Activity |
|---|---|---|---|---|
| 1 | 06/08/2025 | 20:56 | Temperature;16°C humidity; 74% rainfall; none wind 4mph (B2) west to east cloud; 80% | Low |

## Equipment

11. Brooks Ecological makes use of the most appropriate combination of the following equipment during emergence surveys. Where applicable the equipment has been last calibrated in February of 2025.
    - Heterodyne detector: Magenta Bat 4
    - Full spectrum detector: Titley Scientific Anabat Scout or EM Touch 2 Pro
    - Night vision aids: Nightfox, Thermal Eye T2Pro, FlirOne for iOS, Flir Ax5
    - Remote detector: Wildlife Acoustic Song Meter SM4 Bat FS
12. A still shot from night vision aids used, showing the field of view at the darkest point of the survey, has been included in reporting.

**Box 1** *Bat roosts*

Bats roost in buildings and trees in different locations depending upon time of year and environmental factors such as position of the sun, proximity to heat sources and feeding grounds. The following types are commonly referred to:

Transitional roosts

Bats frequently gather early in the season (March to April) before dispersing to summer roosts. Bats can be found in high numbers in these roosts for a very short period. Transitional roosts can also be found shortly before hibernation in August to October when bats (depending upon species) can gather in roosts not used earlier in the season.

Maternity roosts

These are among the most important roosts and are normally occupied from May to August. Depending on the species involved, some maternity roosts can contain a very significant proportion of the local population.

Summer (non-breeding) roosts

Small groups of non-breeding female and male bats can gather in these roosts or bats from a local population may choose to roost individually. There are normally a large number of suitable locations for summer non-breeding roosts and these may be routinely used or used only on an occasional basis. Irregularly used summer roosts can be very hard to find without unreasonable survey effort.

Mating roosts

Around September bats will gather in roost to mate; these are often in different locations than summer or breeding roosts.

Hibernation roosts

As bats in hibernation roosts are highly vulnerable to disturbance and bats can be present in large numbers these are considered to be among the most important bat roosts. Many species of bats roost in large and nationally important hibernation roosts associated with underground sites, many of which are well known and protected. However, the most common bat in the UK (the common pipistrelle) is largely unaccounted for in winter but thought to disperse and roost individually or in small groups in thermally stable cracks and crevices in thick walls or trees.

**Box 2** *Legal background*

Bats are afforded full protection under The Wildlife and Countryside Act (1981) plus amendments, and the Conservation of Habitats and Species Regulations 2010. Under these Acts it is an offence among others, to recklessly kill, injure or disturb bats. It is also an offence to destroy or obstruct a roost even if bats are not in occupancy at the time of the action.

There are no defences against contravention of the Habitats Regulations 2010 which means that it is important for detailed and well-designed bat surveys to be carried out, prior to carrying out activities that may impact upon bat roosts such as demolition of buildings or removal of trees.

Where bats are found within a potential development site, a license from Natural England may need to be secured if works that could otherwise contravene legislation are to be carried out. These licences are only issued where Natural England is satisfied that works are unavoidable and would not have a negative impact on the favourable conservation status of bats. A Natural England license requires that the potential development site has full planning permission and that bats were a material consideration of the planning permission.

# Survey Results

## Emergence Survey 1

13. Surveyors were positioned to cover all features with bat roost suitability.
14. Overall, bat activity was low, with only a handful of contacts being made by a common species of bat.

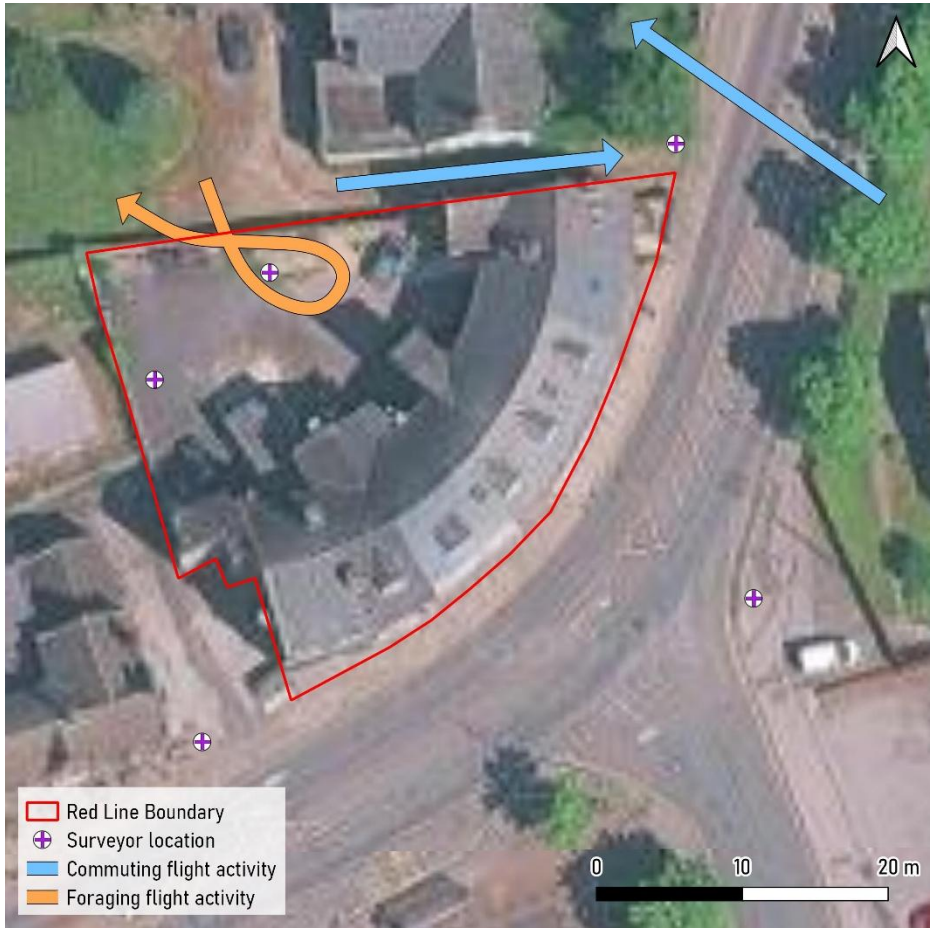
**Table 2** Summary of bat activity recorded during the course of the emergence survey.

| Time | Species | Location | Behaviour/notes |
|---|---|---|---|
| 21:10 | Common pipistrelle | West to east, north of the Site | Commuting |
| 21:15 | Common pipistrelle | East to northwest | Commuting |
| 21:46 | Common pipistrelle | Northwest | Foraging |

15. The survey was concluded at 21:56 when patterns of activity around the Site had been observed and all species could have emerged.
16. No roosts were identified, or suspected, within the surveyed building.

**Figure 2** Screenshot from darkest point in survey showing field of view.


**Figure 3** Summary of bat activity observed during emergence survey.



# Conclusion & Recommendations

17. Survey has demonstrated a likely absence of roosting within the survey building at The Crescent Cudworth, Barnsley, and as such, the proposed works present little risk of impacting upon bats or their roosts.

Standard Precaution

18. Although no evidence of roosting has been found and the likely absence of roosting has been concluded, it must be noted that bats frequently move between roost sites, can be very casual in their choice of roosting location, and can turn up unexpectedly at any time.

19. On this basis the developer should always be mindful of bats as a potential constraint and have a protocol in place should any bats be seen or suspected during works: works should stop, a suitably licenced ecologist consulted, and their advice followed.

Enhancement

20. The NPPF puts emphasis on development delivering biodiversity enhancement above and beyond mitigating or compensating for any impacts. To this end the new development could include integral bat roost features to offer suitable habitat in the long term.

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