

Little Chesters
Sandpit Lane
Farley Hill
Berkshire
RG7 1XJ

Bat Emergence Survey

Report ref.: R31055_BES_a

Report Quality Control Information	
Author	Jake Morgan (Qualifying member of CIEEM)
Reviewer	Sarah Foot MCIEEM

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1 Diesel House, Honey Hill, Wokingham, Berkshire RG40 3BL
Telephone: 0118 3271810 Mobile: 07979 403099 E-mail: info@wenman-ecology.co.uk
www.wenman-ecology.co.uk

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Registered office: 1 Diesel House, Honey Hill, Wokingham Berkshire RG40 3BL where you may look at a list of members' names.

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1 EXECUTIVE SUMMARY

- 1.1.1** John Wenman Ecological Consultancy LLP was instructed by Ms Roberston to undertake a Bat Emergence Survey (BES) at Little Chesters on Sandpit Lane in Berkshire. The survey was commissioned to accompany a planning application to be submitted to Wokingham Borough Council seeking consent for a side extension and front porch extension (refer to proposed plans in **Appendix 3**).
- 1.1.1** The BES follows a Preliminary Roost Assessment (PRA) conducted by John Wenman Ecological Consultancy in November 2025 (Report ref.: R3081_PRA_a). During the PRA approximately 70 - 100 medium-sized bat droppings resembling those typically deposited by long-eared bat (*Plecotus spp.*) species were observed within the roof void, as well as an individual roosting brown long-eared (*Plecotus auritus*) bat. Externally, the property had multiple potential roost features suitable for use by crevice-dwelling bats located under lifted roof tiles, lifted lead flashing and along the eaves.
- 1.1.2** In line with good practice guidelines (Collins 2023), three dusk emergence survey visits were undertaken for the property on the 19th May, 9th June and 30th June 2026, to characterise the confirmed roost and to confirm the presence/absence of further roosts within the property. A single common pipistrelle (*Pipistrellus pipistrellus*) was observed emerging from roof tiles at the northeast corner of the rear gable. The survey findings demonstrate that the property supports an occasional day roost for small numbers of male or non-breeding common pipistrelle bats (i.e. summer resting place used by individual or small groups of male or non-breeding bats) and a transitional roost for brown long-eared bats (*Plecotus auritus*) i.e. roosts of low conservation significance.
- 1.1.3** A European Protected Species (EPS) Mitigation Licence will be required to allow the work to proceed lawfully, and the survey findings establish that the site would qualify for “low impact” Bat Mitigation Class Licence (BMCL) WML-CL21 registration or Bat Earned Recognition Licence (BERL). Under the terms of a full EPS mitigation licence or BMCL/BERL, mitigation for the impacts of the work will be required to avoid harming bats and the mitigation strategy is set out in **Section 7**.
- 1.1.4** This report contains information regarding a mobile species so it will likely be valid for up to 12 months only (CIEEM 2019b).

2 INTRODUCTION

2.1 Project Background

- 2.1.1 John Wenman Ecological Consultancy LLP was instructed by Ms Roberston to undertake a Bat Emergence Survey (BES) at Little Chesters on Sandpit Lane in Berkshire.
- 2.1.2 The survey was commissioned to accompany a planning application to be submitted to Wokingham Borough Council seeking consent for a side extension and front porch extension (refer to proposed plans in **Appendix 3**).
- 2.1.3 The Bat Emergence Survey follows a Preliminary Roost Assessment (PRA) conducted by John Wenman Ecological Consultancy in November 2025 (Report ref.: R3081_PRA_a). The PRA report states the following:

'Approximately 70 - 100 medium-sized bat droppings, resembling those typically deposited by long-eared species (Plecotus spp.), were distributed throughout the void of the detached house. Furthermore, the observation of one brown long-eared (Plecotus auritus) bat roosting in the void confirms that the roost is in current use as a transitional roost by an individual and the property has the potential for use as a day roost or breeding roost for a small number of non-breeding brown long-eared (Plecotus auritus) bats. Features associated with the lifted roof tiles, lifted lead flashing and the large gaps along the eaves directly lead inside the roof void and where roof lining is intact, they also offer potential crevice roost sites for crevice-dwelling bats such as the locally recorded common pipistrelle (Pipistrellus pipistrellus) and soprano pipistrelle (Pipistrellus pygmaeus).

There is no indication of a maternity roost but the number and type of features in combination with the surrounding habitat have potential to support a breeding roost of crevice-dwelling species such as the common pipistrelle or soprano pipistrelle. Furthermore, the void does offer suitable conditions for a breeding long-eared bat roost although the number of droppings is not indicative of a breeding roost. The house is considered to be of high potential suitability for bats with a confirmed roost of at least one species.'

- 2.1.4 The PRA report recommended the following:
- 2.1.5 *'A minimum of three dusk emergence survey visits of the house should be undertaken in the period of May to September, with at least two of the surveys between May and*

August; the survey visits should be spaced at least three weeks apart. If roosting bats are present, these survey visits enable the roost characterisation necessary to inform an impact assessment and mitigation strategy.'

2.2 Site Location and Context

- 2.2.1** The detached property is located towards the northern end of Sandpit Lane in Farley Hill, Berkshire (central OS Grid Reference: SU 74864 64453).
- 2.2.2** The property is in a rural village setting, amongst a cluster of residential properties on Sandpit Lane. The garden is adjacent to deciduous and broadleaved woodland, with large parcels of open arable farmland, the closest of which is 65 metres southwest and scattered ponds 180 metres to the southwest and 280 metres northwest. To the east there are large expanses of deciduous, broadleaved and ancient woodland all of which are connected via linear treelines. Thames Basin Heaths Special Protection Area (SPA) and Bramshill Site of Special Scientific Interest (SSSI) are located 1,200 metres to the south and The Marshes Local Nature Reserve (LNR) is 1,700 metres southwest.
- 2.2.3** Overall, the nearby habitats provide suitable commuting and high quality foraging opportunities for bats adapted to roosting in suburban environments

2.3 Report Objectives

- 2.3.1** The aim of the bat emergence survey is to determine the presence or absence of roosting bats and to characterise the bat roost(/s) in cases where presence is confirmed. The emergence survey findings inform an impact assessment and mitigation strategy for the development proposals and ascertain whether a European Protected Species (EPS) mitigation licence would be required to allow the works to proceed lawfully.

3 LEGISLATIVE AND POLICY BACKGROUND

3.1 Relevant Legislation

3.1.1 In England and Wales, all bat species found in the wild are fully protected under the Wildlife & Countryside Act 1981 (as amended) (WCA) and Conservation of Habitats and Species Regulations 2017 (as amended); the regulations are commonly referred to as the Habitat Regulations and hereafter referred to as such. The Habitat Regulations refer to European Protected Species (EPS) and all species of bats in the United Kingdom (UK) are EPS. Although the UK left the European Union on the 31st January 2020 and is therefore no longer tied to European legislation, the Habitat Regulations have been retained in their current format.

3.1.2 The legal framework underpinned by the WCA and Habitat Regulations makes these specific actions an offence as follows:

- Deliberately kill, injure, capture or take a wild bat;
- Deliberately, intentionally or recklessly disturb bats; in particular any disturbance which is likely to impair their ability to survive, to breed or reproduce, to rear or nurture their young, to hibernate or migrate, or to significantly affect local distribution or abundance;
- Damage or destroy a place used by a bat for breeding or resting; and
- Intentionally or recklessly obstruct access to any place used by a bat for shelter or protection.

3.2 Planning Policy

3.2.1 The biodiversity duty imposed through the Environment Act 2021 states that Local Planning Authorities (LPAs) must consider what action they can take to conserve and enhance biodiversity in England. Government planning policy, such as the ODPM Circular 06/2005, requires LPAs to account for the conservation of protected species when considering and determining planning applications.

3.2.2 The ODPM Circular 06/2005 states that ‘the presence of a protected species is a material consideration when a planning authority is considering a development proposal that, if carried out, would be likely to result in harm to the species or its habitat.’ This policy means that in instances where there is a reasonable likelihood of bats being present and affected by a development, surveys must be undertaken to inform a mitigation strategy to be agreed prior to granting planning permission.

3.3 Mitigation Licensing

3.3.1 The government's statutory nature conservation body, Natural England, is responsible for issuing European Protected Species (EPS) mitigation licences that would permit activities that would otherwise lead to an infringement of the Habitat Regulations. An EPS mitigation licence can be issued if the following three tests derived from Regulation 55 have been satisfied:

- (2)(e) – the derogation is 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.*'
- (9)(a) – there is '*no satisfactory alternative*' to the derogation; and
- (9)(b) – '*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.*'

3.3.2 LPAs have a statutory duty under Regulation 7(3)(e) of the Habitat Regulations to consider and determine whether these three tests are likely to be satisfied by planning proposals affecting EPS before granting planning permission. If an EPS mitigation licence is necessary, a licence can be sought once all the necessary planning consents have been granted. Natural England aims to issue a decision on licence applications within 30 working days of submission.

3.3.3 The Bat Mitigation Class Licence (BMCL) scheme allows ecologists to apply to become Registered Consultants to use this licence for low conservation status roosts, i.e. roosts comprising small numbers of seven commonly occurring species. A site registration form must be completed as a condition of the licence and submitted to Natural England at least three weeks before the licensable activities are due to start; Natural England aims to register sites within two weeks of submission.

3.3.4 Baseline survey information supporting EPS mitigation licence applications or BMCL site registrations must be up-to-date and have been completed within the current or most recent optimal season. A suitably experienced ecologist will be required to undertake a site walkover/check within three months prior to application/registration submission to confirm that conditions have not changed since the most recent survey.

4 SURVEY METHODOLOGY

4.1 Emergence Survey

4.1.1 In line with good practice guidelines (Collins 2023), three dusk emergence survey visits were undertaken and these were completed on the 19th May, 9th June and 30th June 2026. The survey visits were undertaken by experienced bat surveyors John Wenman MCIEEM (CL18; 2025-85948-CL18-BAT), Amy Denness (CL20; 2025-84271-CL20-BAT), Jake Morgan ACIEEM (CL17; 2025-85343-CL17-BAT) and Georgia Clifton-Dey. The surveyor at Surveyor Location 2 used an additional camera to ensure all elevations of the property were covered during all visits - refer to emergence survey plan in **Section 5** below.

4.1.2 The equipment used during the survey was full-spectrum sampling bat detectors (Batlogger M / M2 and Echo Meter Touch 2), thermal imaging night vision aids (Pixfra ARC A613) and infrared imaging night vision aids (Canon XA30 and Sionyx Aurora Pro used with infrared illuminators). A still shot of the darkest point/viewpoint of the surveys has been included for the night vision aids in **Appendix 1**.

4.1.3 The emergence surveys started 15 minutes before sunset and continued for 1 hour and 30 minutes after sunset. Within a five-day period after the survey, the bat call recordings were processed and analysed using the BatExplorer and Kaleidoscope computer software packages and the night vision video footage was reviewed in the VLC Media Player.

4.2 Survey Limitations and Report Validity

4.2.1 There were no significant constraints to the bat emergence surveys, which were undertaken during the optimal survey season, i.e. May to August, (particularly for detecting and characterising breeding roosts) and in conditions suitable for bat activity, i.e. dry and calm with air temperatures 10°C or above at sunset (Collins 2023).

4.2.2 This report contains information regarding a mobile species so it will likely be valid for up to 12 months only (CIEEM 2019b).

5 SURVEY RESULTS

5.1 Overview

- 5.1.1 The results from the data search are detailed below. The bat emergence survey findings are described, summarised in **Tables 1 – 6** and illustrated in **Figures 1 & 2** below; the raw detector data is supplied in **Appendix 2**.

5.2 Background Data Search

- 5.2.1 The search of granted bat mitigation licences identified four species known to be roosting within a 2km radius of the property: common pipistrelle (*Pipistrellus pipistrellus*) soprano pipistrelle (*Pipistrellus pygmaeus*), brown long-eared (*Plecotus auritus*) and Serotine (*Eptesicus serotinus*). The closest licence to have been granted covers the destruction of a *P. pipistrellus*, *P. pygmaeus*, *P. auritus* and *E. serotinus* resting place at a residential site approximately 120 metres to the east (Case reference: 2018-36041-EPS-MIT-1).
- 5.2.2 The TVERC data search carried out during the PRA revealed that at least seven species have been recorded locally within the last 10 years: Serotine (*Eptesicus serotinus*), noctule (*Nyctalus noctula*), common pipistrelle (*Pipistrellus pipistrellus*), soprano pipistrelle (*Pipistrellus pygmaeus*), barbastelle (*Barbastella barbastellus*), *Myotis* species and brown long-eared (*Plecotus auritus*). The nearest confirmed roost was at a residential property 165m north for soprano pipistrelle (*Pipistrellus pygmaeus*) and brown long-eared bat (*Plecotus auritus*).
- 5.2.3 The client previously had a bat assessment carried out in July and August 2015 by Derek Finnie Associates which identified no emerging bats and minimal bat activity surrounding the property. In addition, a PRA was carried out in February 2025 by Luscinia Ecology Ltd who found scattered bat droppings and assigned the potential suitability of the property as high. No bats were found roosting at the time of the survey.
- ### 5.3 Emergence Survey
- 19th May 2026
- 5.3.1 A single common pipistrelle (*Pipistrellus pipistrellus*) was observed and recorded on camera emerging from lifted roof tiles on the rear elevation of the property at 21:14 (20 minutes after sunset) (**Photograph 1**).



Photograph 1 – Common pipistrelle emerging from rear elevation.

Table 1. Weather conditions and survey timings

Weather	Wind (BF0-12)	Cloud cover (oktas)	Rain	Temperature (°C)	
	4	6/8	Dry	Start	Finish
Start	20:39	Sunset	20:54	Finish	22:24

Table 2a. Surveyor recordings at location 1

Species	Recordings*	Emergences [†]	Time of first call (minutes after sunset)
Common pipistrelle	222	0	21:04 (10)
Soprano pipistrelle	100	0	21:03 (9)
Brown long-eared	2	0	21:54 (60)
Noctule	3	0	21:21 (27)

Table 2b. Surveyor recordings at location 2

Common pipistrelle	20	1	21:01 (7)
Soprano pipistrelle	24	0	21:02 (8)

5.3.2 The first bats to be recorded during the survey were common pipistrelle (*Pipistrellus pipistrellus*) and soprano pipistrelle (*Pipistrellus pygmaeus*) recorded by the surveyor at Surveyor Location 2 at 21:01 (7 minutes after sunset) and 21:02 (8 minutes after sunset) respectively. Whilst the *P. pipistrellus* was not seen, the *P. pygmaeus* was seen passing along the northeast elevation of the roof from southeast to northwest. These recordings fall within the typical emergence period indicating that they likely emerged from roosts nearby (Collins 2025).

5.3.3 The surveyor at Surveyor Location 1 first recorded brown long-eared (*Plecotus auritus*)

and noctule (*Nyctalus noctule*) at 21:54 (60 minutes after sunset) and 21:21 (27 minutes after sunset) respectively.

- 5.3.4** Activity was moderate with a higher number of recordings at Surveyor Location 1, primarily comprising *P. pipistrellus* and *P. pygmaeus* foraging passes along all elevations of the property, over the front and rear garden, and over the open grassland and scattered trees to the southwest of the property.

9th June 2026

- 5.3.5** No bats were observed or seen on camera emerging or re-entering the property during this survey visit.

Table 3. Weather conditions and survey timings

Weather	Wind (BF0-12)	Cloud cover (oktas)	Rain	Temperature (°C)	
	1	0	Dry	Start	Finish
Start	21:03	Sunset	21:18	Finish	22:48

Table 4a. Surveyor recordings at location 1

Species	Recordings*	Emergences [†]	Time of first call (minutes after sunset)
Common pipistrelle	7	0	22:08 (50)
Soprano pipistrelle	1	0	21:37 (19)
Serotine	2	0	22:24 (66)
Brown long-eared	2	0	22:27 (69)
<i>Myotis</i> sp.	1	0	22:28 (70)

Table 4b. Surveyor recordings at location 2

Species	Recordings*	Emergences [†]	Time of first call (minutes after sunset)
Common pipistrelle	6	0	22:05 (47)
Soprano pipistrelle	4	0	21:18 (0)
Serotine	2	0	22:22 (64)
<i>Myotis</i> sp.	2	0	21:53 (35)

- 5.3.6** The first bat recorded during the survey was a soprano pipistrelle (*Pipistrellus pygmaeus*) that was heard by the surveyor at Surveyor Location 2 at 21:18 (sunset). This falls within the earliest range of the typical emergence period for this species indicating that the individual emerged from the nearby area (Collins 2023). Common pipistrelle (*Pipistrellus pipistrellus*) were recorded outside of their typical emergence period with the first recording being at the same Surveyor Location at 22:05 (47 minutes after sunset).
- 5.3.7** Both surveyors recorded serotine (*Eptesicus serotinus*) and *Myotis* sp. considered most likely to be Daubenton's bat (*Myotis daubentonii*) with the first recordings at 22:22 (64 minutes after sunset) and 21:53 (35 minutes after sunset). In addition, the surveyor at

Surveyor Location 1 recorded brown long-eared (*Plecotus auritus*) at 22:27 (69 minutes after sunset) (Collins 2023).

- 5.3.8** The level of activity was low throughout the survey with only limited observations of *Pipistrellus* spp. across the grassland to the south of the property and across the rear garden.

30th June 2026

- 5.3.9** No bats were observed or seen on camera emerging or re-entering the property during this survey visit.

Table 1. Weather conditions and survey timings

Weather	Wind (BF0-12)	Cloud cover (oktas)	Rain	Temperature (°C)	
	Start	Finish			
	2	6/8	Dry	19	17
Start	21:09	Sunset	21:24	Finish	22:54

Table 2a. Surveyor recordings at location 1

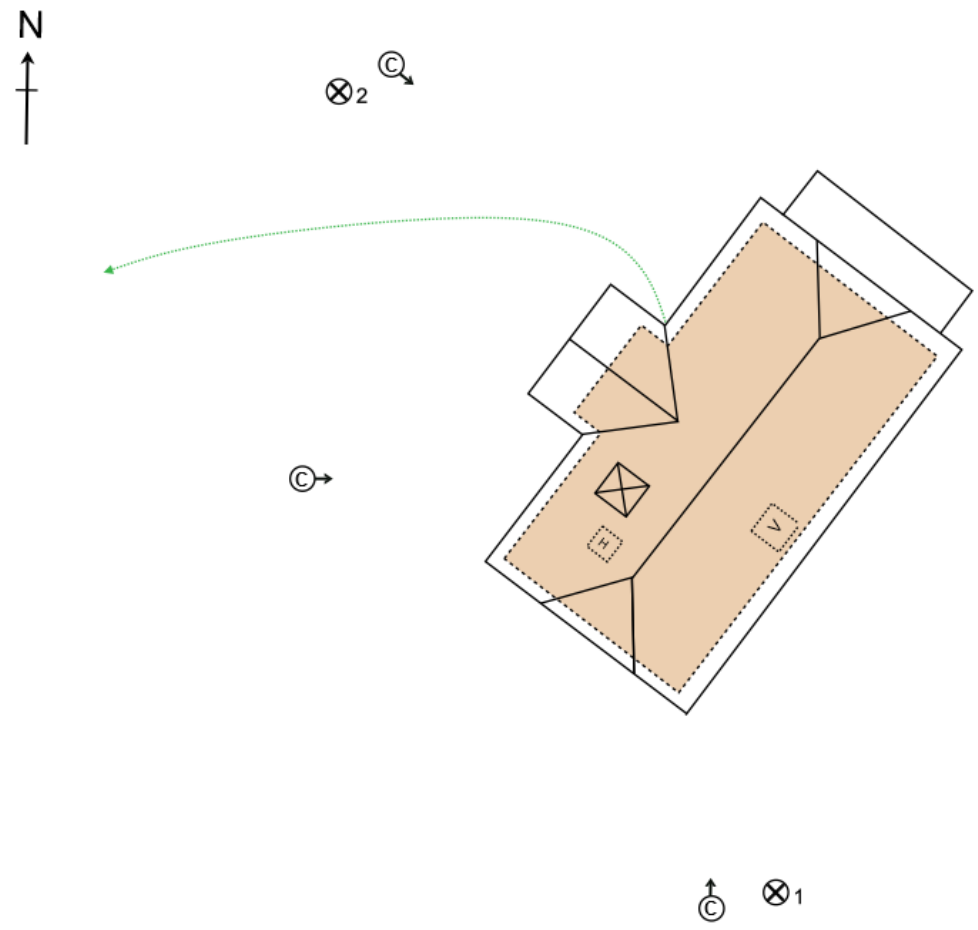
Species	Recordings*	Emergences†	Time of first call (minutes after sunset)
Common pipistrelle	91	0	21:24 (0)
Soprano pipistrelle	130	0	21:39 (15)
Brown long-eared	1	0	22:24 (60)
Barbastelle	1	0	22:18 (54)

Table 2b. Surveyor recordings at location 2

Common pipistrelle	91	0	21:17 (7 before sunset)
Soprano pipistrelle	130	0	21:23 (1 before sunset)
Barbastelle	1	0	22:15 (51)

- 5.3.10** The first bats recorded during the survey were common pipistrelle (*Pipistrellus pipistrellus*) and soprano pipistrelle (*Pipistrellus pygmaeus*) that were heard by the surveyor at Surveyor Location 2 at 21:17 (7 minutes before sunset) and 21:23 (1 minute before sunset) respectively. These recordings fall within the earliest emergence periods for these species, suggesting that the individuals emerged from the neighbouring building to the west (Collins 2023).
- 5.3.11** Both surveyors recorded a single barbastelle (*Barbastellus barbastellus*) with the first at Surveyor Location 2 at 22:15 (51 minutes after sunset). In addition, a single brown long-eared (*Plecotus auritus*) was recorded at Surveyor Location 1 at 22:24 (60 minutes after sunset) (Collins 2023).
- 5.3.12** The level of activity was high and primarily comprised *P. pipistrellus* and *P. pygmaeus* foraging passes along all elevations of the property, over the front and rear garden, and

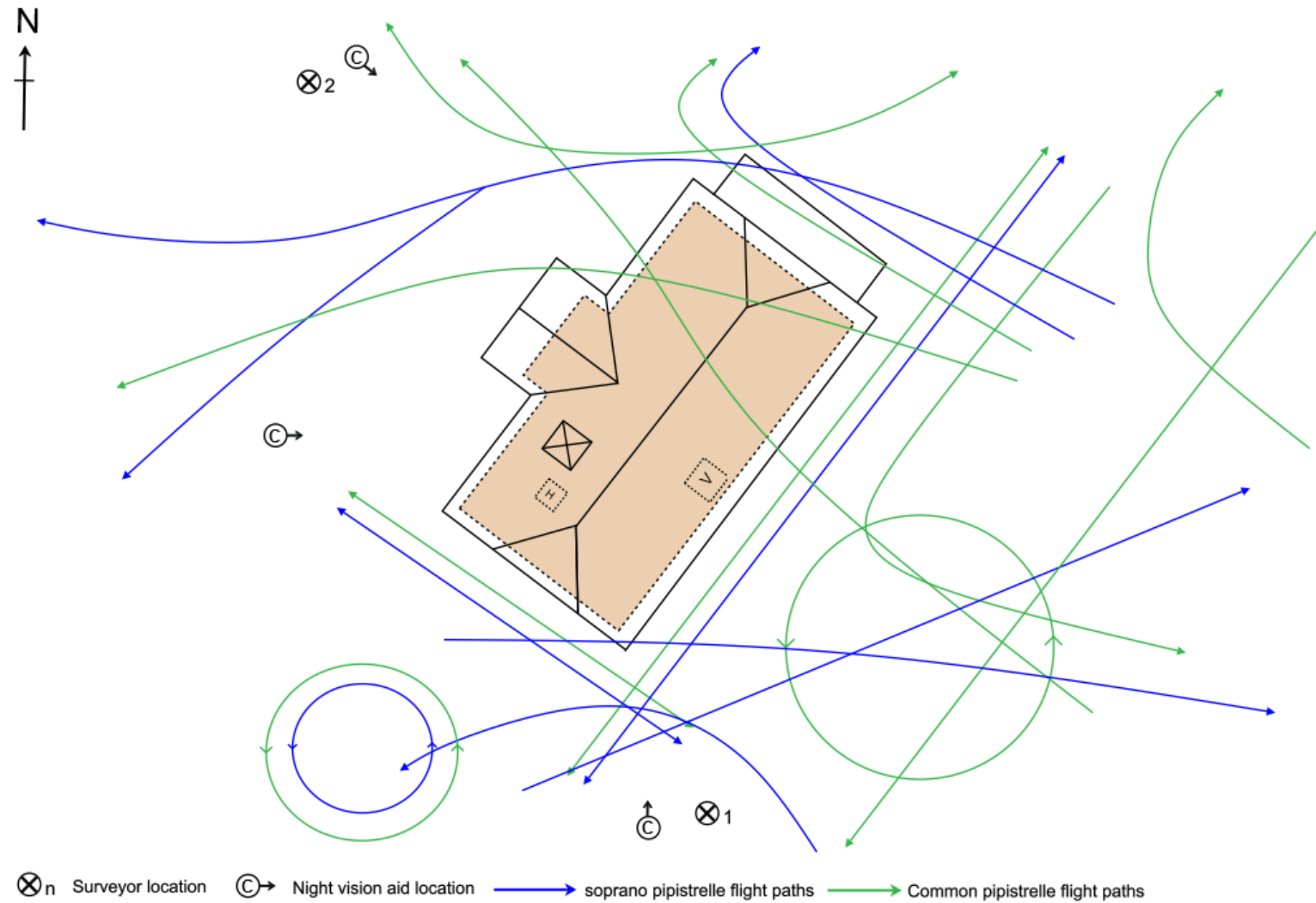
over the open grassland and scattered trees to the southwest of the property.



⊗ _n Surveyor location		Ⓢ Night vision aid location	→ Emerging common pipistrelle flight paths
Drawn by:	Date	Scale:	Little Chesters, Sandpit Lane, Farley Hill, Reading RG7 1XJ
HM / JM	July 2026	Not to scale	Emergence Survey Plan - Emergences

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ecological consultancy

Figure 1 – Bat Emergence Survey Findings - Emergences



Drawn by:	Date	Scale:	Little Chesters, Sandpit Lane, Farley Hill, Reading RG7 1XJ	
HM / JM	July 2026	Not to scale	Emergence Survey Plan - Activity	

Figure 2 – Bat Emergence Survey Findings - Activity

6 DISCUSSION AND RECOMMENDATIONS

6.1 Assessment of Bat Roost Status

- 6.1.1** During the emergence surveys, a maximum count of one common pipistrelle (*P. pipistrellus*) was recorded emerging from lifted roof tiles on the rear elevation of the property. These findings are consistent with the building acting as a day roost (i.e. summer resting place used by individual or small groups of male or non-breeding bats) for small numbers of common pipistrelle (*P. pipistrellus*) bats with one access point. Soprano pipistrelle (*P. pygmaeus*) bats were also recorded within the earliest range of their typical emergence periods during two survey visits, indicating that this species is also highly likely to be roosting within the nearby area.
- 6.1.2** Common pipistrelle (*P. pipistrellus*) and soprano pipistrelle (*P. pygmaeus*) are crevice-dwelling species that are of the most abundant and widespread bats in Great Britain. These species occur in almost any habitat type and are well adapted to the built environments; they are species most regularly reported roosting in houses and churches (Mathews *et al.* 2018).
- 6.1.3** Day roosts used by common pipistrelle (*P. pipistrellus*) and soprano pipistrelle (*P. pygmaeus*) bats hold site level conservation importance only and the loss of such roosts is not usually significant beyond the scale of the site (Reason & Wray 2025).
- 6.1.4** Whilst not observed emerging, brown long eared bats (*Plecotus auritus*) were recorded within their potential emergence period during all survey visits. In consideration of the observation of a *P. auritus* bat within the roof void during the PRA in combination with the number of droppings within the roof void, the property also acts as a transitional roost (i.e. summer resting place used by individual or small groups of male or non-breeding bats) for brown long-eared bats (*P. auritus*).
- 6.1.5** Brown long-eared bat (*P. auritus*) is a widespread species in Great Britain, commonly associated with broadleaved and mixed woodland habitats. This species will roost in trees, bat boxes and buildings but maternity roosts are predominantly located in barns, churches and houses with large internal flight spaces (Mathews *et al.* 2018).
- 6.1.6** Transitional roosts used by individual or low numbers of brown long-eared bats hold site level conservation importance only and the loss of such roosts is not usually significant beyond the scale of the site (Reason & Wray 2025).

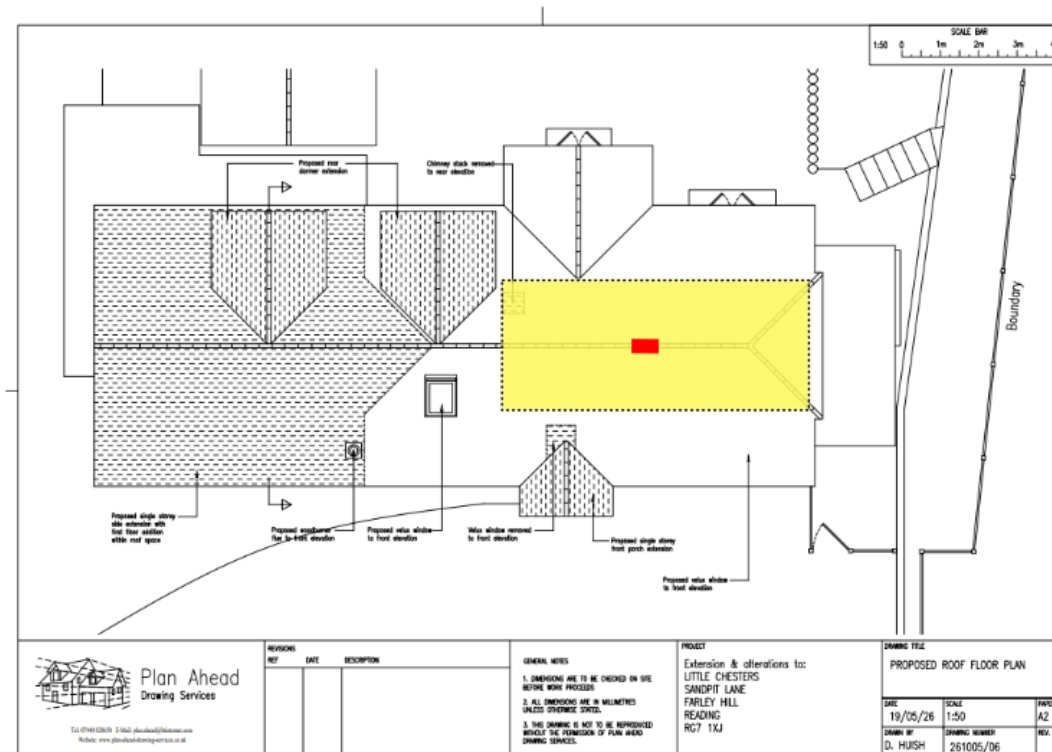
6.2 Impact Assessment

- 6.2.1** The proposals comprise a side extension to the southwest elevation of the bungalow and a front porch extension (refer to proposed plans in **Appendix 3**). Whilst these proposals will not impact the confirmed common pipistrelle (*P. pipistrellus*) day roost identified on the northeast corner of the rear gable, the proposals will have a significant impact on the roof including the opening of the void. As such, they will therefore result in the damage and temporary disturbance of a brown long eared (*P. auritus*) transitional roost used by individual or low numbers of non-breeding bats. Additionally, in the absence of mitigation measures, the works could cause the disturbance, injury and or death of bats.
- 6.2.2** A European Protected Species (EPS) Mitigation Licence will be required to allow the work to proceed lawfully, and the survey findings establish that the property would qualify for registration under the “low impact” Bat Mitigation Class Licence (BMCL) WML-CL21 registration or Bat Earned Recognition Licence (BERL) WML-CL47 – Level 1. Under the terms of a full EPS mitigation licence or BMCL/BERL, mitigation for the impacts of the work will be required to avoid harming bats and the mitigation proposals outlining the strategy to be adopted under licence are set out in **Section 7** below.

7 MITIGATION AND COMPENSATION PROPOSALS

- 7.1.1** Following the grant of planning consent, before the licensable work begins i.e. removal of roof coverings, a European Protected Species Mitigation Licence (EPSML) or confirmation of the registration of the site under the Bat Mitigation Class Licence (BMCL) (Low Impact) WML-CL21/Bat Earned Recognition Licence WML-CL47 – Level 1 will be obtained.
- 7.1.2** All licensable works to the house i.e. removal of roof coverings will be undertaken outside of the winter hibernation season (mid-November to February) to minimise the risk of disturbing torpid bats. One woodcrete bat box will be fixed to a suitable mature tree or purpose-built pole in the rear garden to the northwest or southwest of the property prior to the works starting and will be in place for a minimum of five years (boxes can only be removed after the five years if no evidence of use has been found at this stage).
- 7.1.3** Removal of the roof coverings will be carried out by a soft strip i.e. hand removal with handheld tools if necessary. Before the soft strip begins, the licensed ecologist or 'Registered Consultant' if working under the BMCL/BERL, will give a toolbox talk to the contractors on site detailing bats are present, the legislation protecting bats, the location of the roosting site in the buildings, good working practices, the measures that are required to protect bats during the work and what to do if bats are found. A copy of the licence will be available for inspection on site during all licensable works.
- 7.1.4** The work will be preceded by an inspection of the void by a licensed ecologist. If bats are present in the void, they would be captured by hand by the ecologist, where safe to do so, and transferred to the bat box. The roof coverings will be carefully removed by gloved hands under the supervision of a licensed ecologist, or 'Registered Consultant'. If bat(s) are discovered during the work, the licensed ecologist or 'Registered Consultant' would capture the bat(s) and transfer it/them directly to a bat box erected in advance of the works
- 7.1.5** In the long-term, the property will incorporate a ridge access feature that will continue to provide access points/roosting sites for brown long-eared bats. Most of the existing roof showing evidence of use by brown long eared bats and access will be retained and the large roof void will provide an enhanced space for roosting bats (see **Figure 3** below). The common pipistrelle roost site will remain unaffected by the works as detailed in the impact assessment.

- 7.1.6** Access will be provided into the roof space for bats and therefore, a bituminous roofing felt that does not contain polypropylene/polyethylene filaments (e.g. bitumen felt type 1F) or a non-bitumen coated 'breathable' membrane that has passed the snagging propensity test (e.g. TLX 'Bat Safe') should be used; other non-bitumen coated membranes are harmful to bats and must be avoided.



Bat roof void for void-dwelling *Plecotus* sp.



Ridge access point to be created

Drawn by: Plan Ahead Drawing Services Amended by: JM	Date July 2026	Scale: Not to scale	Little Chesters, Sandpit Lane, Farley Hill Bat Roost Mitigation and Enhancement	
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Figure 3 – Bat Roost Mitigation

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APPENDIX 1 – DARKEST POINT OF SURVEY AND/OR VIEWPOINT FOR NIGHT VISION AIDS

13th May 2026



Pixfra ARC A613 at Surveyor Location 1.



Pixfra ARC A613 at Surveyor Location 2.



Sionyx Aurora Pro at Surveyor Location 2.

9th June 2026



Canon XA30 at Surveyor Location 1.



Pixfra ARC A613 at Surveyor Location 2.



Sionyx Aurora Pro at Surveyor Location 2.

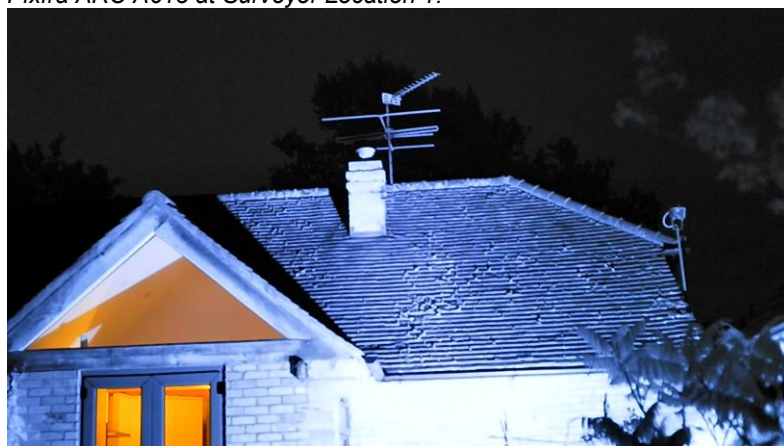
30th June 2026



Pixfra ARC A613 at Surveyor Location 1.



Pixfra ARC A613 at Surveyor Location 2.



Sionyx Aurora Pro at Surveyor Location 2.

APPENDIX 2 – BAT EMERGENCE SURVEY RAW DATA TABLES

19th May 2026

Surveyor Location 1 – Batlogger M

Time	Species	Number of calls [#]
21:03	<i>Pipistrellus pygmaeus</i>	2
21:04	<i>Pipistrellus pipistrellus</i>	1
21:04	<i>Pipistrellus pipistrellus</i>	16
21:04	<i>Pipistrellus pipistrellus</i>	1
21:04	<i>Pipistrellus pipistrellus</i>	6
21:05	<i>Pipistrellus pipistrellus</i>	8
21:05	<i>Pipistrellus pipistrellus</i>	1
21:06	<i>Pipistrellus pipistrellus</i>	5
21:06	<i>Pipistrellus pipistrellus</i>	1
21:06	<i>Pipistrellus pipistrellus</i>	6
21:06	<i>Pipistrellus pipistrellus</i>	3
21:20	<i>Pipistrellus pipistrellus</i>	17
21:21	<i>Nyctalus noctula</i>	9
21:21	<i>Nyctalus noctula</i>	11
21:23	<i>Pipistrellus pipistrellus</i>	13
21:23	<i>Pipistrellus pipistrellus</i>	4
21:24	<i>Pipistrellus pipistrellus</i>	10
21:24	<i>Pipistrellus pipistrellus</i>	14
21:25	<i>Pipistrellus pipistrellus</i>	14
21:25	<i>Pipistrellus pygmaeus</i>	3
21:28	<i>Pipistrellus pipistrellus</i>	17
21:28	<i>Pipistrellus pipistrellus</i>	1
21:29	<i>Pipistrellus pipistrellus</i>	10
21:29	<i>Pipistrellus pipistrellus</i>	1
21:30	<i>Pipistrellus pygmaeus</i>	3
21:30	<i>Pipistrellus pygmaeus</i>	2
21:31	<i>Pipistrellus pygmaeus</i>	7
21:31	<i>Pipistrellus pygmaeus</i>	3
21:31	<i>Pipistrellus pygmaeus</i>	16
21:31	<i>Pipistrellus pygmaeus</i>	6
21:31	<i>Pipistrellus pygmaeus</i>	7
21:32	<i>Pipistrellus pipistrellus</i>	22
21:32	<i>Pipistrellus pipistrellus</i>	3
21:32	<i>Pipistrellus pipistrellus</i>	38
21:32	<i>Pipistrellus pygmaeus</i>	1
21:32	<i>Pipistrellus pygmaeus</i>	11
21:32	<i>Pipistrellus pipistrellus</i>	11
21:32	<i>Pipistrellus pygmaeus</i>	10
21:32	<i>Pipistrellus pipistrellus</i>	1
21:32	<i>Pipistrellus pygmaeus</i>	12
21:33	<i>Pipistrellus pygmaeus</i>	14

21:33	<i>Pipistrellus pygmaeus</i>	11
21:33	<i>Pipistrellus pipistrellus</i>	34
21:33	<i>Pipistrellus pygmaeus</i>	1
21:33	<i>Pipistrellus pipistrellus</i>	11
21:33	<i>Pipistrellus pygmaeus</i>	11
21:33	<i>Pipistrellus pygmaeus</i>	17
21:33	<i>Pipistrellus pygmaeus</i>	13
21:33	<i>Pipistrellus pygmaeus</i>	11
21:33	<i>Pipistrellus pygmaeus</i>	6
21:33	<i>Pipistrellus pipistrellus</i>	1
21:33	<i>Pipistrellus pipistrellus</i>	27
21:33	<i>Pipistrellus pygmaeus</i>	8
21:34	<i>Pipistrellus pygmaeus</i>	20
21:34	<i>Pipistrellus pipistrellus</i>	10
21:34	<i>Pipistrellus pygmaeus</i>	1
21:34	<i>Pipistrellus pipistrellus</i>	3
21:34	<i>Pipistrellus pipistrellus</i>	36
21:34	<i>Pipistrellus pygmaeus</i>	36
21:34	<i>Pipistrellus pygmaeus</i>	6
21:34	<i>Pipistrellus pipistrellus</i>	7
21:34	<i>Pipistrellus pygmaeus</i>	26
21:34	<i>Pipistrellus pipistrellus</i>	26
21:35	<i>Pipistrellus pygmaeus</i>	3
21:35	<i>Pipistrellus pygmaeus</i>	4
21:35	<i>Pipistrellus pygmaeus</i>	7
21:36	<i>Pipistrellus pygmaeus</i>	6
21:37	<i>Pipistrellus pipistrellus</i>	19
21:37	<i>Pipistrellus pipistrellus</i>	3
21:37	<i>Pipistrellus pygmaeus</i>	3
21:37	<i>Pipistrellus pygmaeus</i>	16
21:37	<i>Pipistrellus pygmaeus</i>	5
21:37	<i>Pipistrellus pygmaeus</i>	4
21:38	<i>Pipistrellus pipistrellus</i>	24
21:38	<i>Pipistrellus pygmaeus</i>	6
21:39	<i>Pipistrellus pygmaeus</i>	2
21:39	<i>Pipistrellus pygmaeus</i>	7
21:39	<i>Pipistrellus pygmaeus</i>	11
21:40	<i>Pipistrellus pipistrellus</i>	15
21:40	<i>Pipistrellus pygmaeus</i>	15
21:40	<i>Pipistrellus pygmaeus</i>	11
21:41	<i>Pipistrellus pygmaeus</i>	2
21:41	<i>Pipistrellus pygmaeus</i>	2
21:42	<i>Pipistrellus pygmaeus</i>	10

21:42	<i>Pipistrellus pygmaeus</i>	14
21:42	<i>Pipistrellus pipistrellus</i>	13
21:42	<i>Pipistrellus pipistrellus</i>	10
21:42	<i>Pipistrellus pipistrellus</i>	1
21:43	<i>Pipistrellus pipistrellus</i>	1
21:43	<i>Pipistrellus pipistrellus</i>	3
21:44	<i>Pipistrellus pygmaeus</i>	2
21:44	<i>Pipistrellus pygmaeus</i>	1
21:44	<i>Pipistrellus pygmaeus</i>	14
21:44	<i>Pipistrellus pygmaeus</i>	1
21:44	<i>Pipistrellus pygmaeus</i>	5
21:44	<i>Pipistrellus pygmaeus</i>	10
21:45	<i>Pipistrellus pygmaeus</i>	3
21:45	<i>Pipistrellus pygmaeus</i>	8
21:45	<i>Pipistrellus pygmaeus</i>	3
21:45	<i>Pipistrellus pygmaeus</i>	8
21:46	<i>Pipistrellus pipistrellus</i>	61
21:46	<i>Pipistrellus pipistrellus</i>	10
21:46	<i>Pipistrellus pipistrellus</i>	2
21:46	<i>Pipistrellus pipistrellus</i>	14
21:46	<i>Pipistrellus pipistrellus</i>	4
21:46	<i>Pipistrellus pipistrellus</i>	3
21:46	<i>Pipistrellus pipistrellus</i>	23
21:46	<i>Pipistrellus pipistrellus</i>	13
21:46	<i>Pipistrellus pygmaeus</i>	1
21:46	<i>Pipistrellus pipistrellus</i>	15
21:46	<i>Pipistrellus pygmaeus</i>	10
21:47	<i>Pipistrellus pipistrellus</i>	5
21:47	<i>Pipistrellus pipistrellus</i>	3
21:47	<i>Pipistrellus pipistrellus</i>	12
21:47	<i>Pipistrellus pipistrellus</i>	14
21:47	<i>Pipistrellus pipistrellus</i>	4
21:47	<i>Pipistrellus pipistrellus</i>	22
21:47	<i>Pipistrellus pipistrellus</i>	5
21:47	<i>Pipistrellus pipistrellus</i>	3
21:47	<i>Pipistrellus pipistrellus</i>	3
21:48	<i>Pipistrellus pipistrellus</i>	20
21:48	<i>Pipistrellus pipistrellus</i>	41
21:48	<i>Pipistrellus pipistrellus</i>	18
21:48	<i>Pipistrellus pygmaeus</i>	2
21:48	<i>Pipistrellus pipistrellus</i>	17
21:48	<i>Pipistrellus pipistrellus</i>	38
21:48	<i>Pipistrellus pipistrellus</i>	58
21:48	<i>Pipistrellus pygmaeus</i>	58
21:49	<i>Pipistrellus pipistrellus</i>	5
21:49	<i>Pipistrellus pipistrellus</i>	5
21:49	<i>Pipistrellus pipistrellus</i>	6

21:49	<i>Pipistrellus pipistrellus</i>	6
21:49	<i>Pipistrellus pipistrellus</i>	9
21:49	<i>Pipistrellus pipistrellus</i>	17
21:49	<i>Pipistrellus pipistrellus</i>	3
21:49	<i>Pipistrellus pipistrellus</i>	36
21:49	<i>Pipistrellus pipistrellus</i>	5
21:50	<i>Pipistrellus pipistrellus</i>	5
21:50	<i>Pipistrellus pipistrellus</i>	16
21:50	<i>Pipistrellus pygmaeus</i>	3
21:50	<i>Pipistrellus pygmaeus</i>	4
21:50	<i>Pipistrellus pipistrellus</i>	3
21:50	<i>Pipistrellus pygmaeus</i>	13
21:50	<i>Pipistrellus pipistrellus</i>	20
21:50	<i>Pipistrellus pygmaeus</i>	1
21:50	<i>Pipistrellus pipistrellus</i>	1
21:50	<i>Pipistrellus pipistrellus</i>	7
21:50	<i>Pipistrellus pipistrellus</i>	1
21:50	<i>Pipistrellus pipistrellus</i>	14
21:51	<i>Pipistrellus pipistrellus</i>	16
21:51	<i>Pipistrellus pipistrellus</i>	16
21:51	<i>Pipistrellus pipistrellus</i>	13
21:51	<i>Pipistrellus pipistrellus</i>	11
21:51	<i>Pipistrellus pipistrellus</i>	4
21:51	<i>Pipistrellus pipistrellus</i>	3
21:51	<i>Pipistrellus pipistrellus</i>	5
21:51	<i>Pipistrellus pipistrellus</i>	2
21:51	<i>Pipistrellus pipistrellus</i>	29
21:52	<i>Pipistrellus pipistrellus</i>	18
21:52	<i>Pipistrellus pipistrellus</i>	21
21:52	<i>Pipistrellus pipistrellus</i>	16
21:52	<i>Pipistrellus pygmaeus</i>	16
21:52	<i>Pipistrellus pipistrellus</i>	31
21:52	<i>Pipistrellus pipistrellus</i>	4
21:52	<i>Pipistrellus pygmaeus</i>	5
21:53	<i>Pipistrellus pipistrellus</i>	59
21:53	<i>Pipistrellus pipistrellus</i>	21
21:53	<i>Pipistrellus pygmaeus</i>	1
21:53	<i>Pipistrellus pipistrellus</i>	42
21:53	<i>Pipistrellus pygmaeus</i>	42
21:54	<i>Pipistrellus pipistrellus</i>	11
21:54	<i>Pipistrellus pipistrellus</i>	15
21:54	<i>Plecotus auritus</i>	24
21:54	<i>Pipistrellus pipistrellus</i>	24
21:54	<i>Plecotus auritus</i>	3
21:54	<i>Pipistrellus pipistrellus</i>	8
21:54	<i>Pipistrellus pipistrellus</i>	19
21:54	<i>Pipistrellus pipistrellus</i>	3

21:54	<i>Pipistrellus pipistrellus</i>	7
21:54	<i>Pipistrellus pipistrellus</i>	5
21:54	<i>Pipistrellus pipistrellus</i>	1
21:55	<i>Pipistrellus pipistrellus</i>	7
21:55	<i>Pipistrellus pipistrellus</i>	2
21:55	<i>Pipistrellus pipistrellus</i>	29
21:55	<i>Pipistrellus pipistrellus</i>	24
21:55	<i>Pipistrellus pygmaeus</i>	5
21:55	<i>Pipistrellus pygmaeus</i>	16
21:55	<i>Pipistrellus pipistrellus</i>	15
21:55	<i>Pipistrellus pygmaeus</i>	19
21:56	<i>Pipistrellus pygmaeus</i>	9
21:56	<i>Pipistrellus pygmaeus</i>	3
21:56	<i>Pipistrellus pygmaeus</i>	5
21:56	<i>Pipistrellus pygmaeus</i>	13
21:56	<i>Pipistrellus pygmaeus</i>	28
21:57	<i>Pipistrellus pygmaeus</i>	20
21:57	<i>Pipistrellus pipistrellus</i>	2
21:59	<i>Pipistrellus pygmaeus</i>	4
21:59	<i>Nyctalus noctula</i>	2
21:59	<i>Pipistrellus pygmaeus</i>	25
21:59	<i>Pipistrellus pygmaeus</i>	1
22:00	<i>Pipistrellus pipistrellus</i>	6
22:00	<i>Pipistrellus pipistrellus</i>	10
22:00	<i>Pipistrellus pipistrellus</i>	6
22:00	<i>Pipistrellus pipistrellus</i>	4
22:00	<i>Pipistrellus pipistrellus</i>	5
22:00	<i>Pipistrellus pipistrellus</i>	21
22:00	<i>Pipistrellus pipistrellus</i>	8
22:00	<i>Pipistrellus pipistrellus</i>	5
22:00	<i>Pipistrellus pipistrellus</i>	47
22:01	<i>Pipistrellus pipistrellus</i>	9
22:01	<i>Pipistrellus pipistrellus</i>	3
22:01	<i>Pipistrellus pipistrellus</i>	2
22:01	<i>Pipistrellus pipistrellus</i>	2
22:01	<i>Pipistrellus pipistrellus</i>	7
22:01	<i>Pipistrellus pipistrellus</i>	3
22:01	<i>Pipistrellus pipistrellus</i>	4
22:01	<i>Pipistrellus pipistrellus</i>	29
22:03	<i>Pipistrellus pygmaeus</i>	1
22:03	<i>Pipistrellus pygmaeus</i>	1
22:03	<i>Pipistrellus pygmaeus</i>	21
22:03	<i>Pipistrellus pygmaeus</i>	2
22:03	<i>Pipistrellus pipistrellus</i>	16
22:03	<i>Pipistrellus pipistrellus</i>	30
22:03	<i>Pipistrellus pygmaeus</i>	30
22:03	<i>Pipistrellus pygmaeus</i>	18

22:04	<i>Pipistrellus pipistrellus</i>	3
22:04	<i>Pipistrellus pipistrellus</i>	2
22:04	<i>Pipistrellus pipistrellus</i>	1
22:04	<i>Pipistrellus pipistrellus</i>	1
22:04	<i>Pipistrellus pipistrellus</i>	38
22:04	<i>Pipistrellus pygmaeus</i>	38
22:05	<i>Pipistrellus pygmaeus</i>	4
22:05	<i>Pipistrellus pygmaeus</i>	17
22:06	<i>Pipistrellus pipistrellus</i>	5
22:06	<i>Pipistrellus pipistrellus</i>	23
22:06	<i>Pipistrellus pygmaeus</i>	42
22:07	<i>Pipistrellus pipistrellus</i>	3
22:07	<i>Pipistrellus pipistrellus</i>	6
22:07	<i>Pipistrellus pipistrellus</i>	3
22:07	<i>Pipistrellus pipistrellus</i>	14
22:08	<i>Pipistrellus pipistrellus</i>	3
22:08	<i>Pipistrellus pipistrellus</i>	1
22:08	<i>Pipistrellus pipistrellus</i>	1
22:08	<i>Pipistrellus pipistrellus</i>	3
22:08	<i>Pipistrellus pipistrellus</i>	2
22:09	<i>Pipistrellus pipistrellus</i>	2
22:09	<i>Pipistrellus pipistrellus</i>	1
22:09	<i>Pipistrellus pipistrellus</i>	0
22:09	<i>Pipistrellus pipistrellus</i>	1
22:09	<i>Pipistrellus pipistrellus</i>	6
22:09	<i>Pipistrellus pipistrellus</i>	1
22:09	<i>Pipistrellus pipistrellus</i>	4
22:09	<i>Pipistrellus pipistrellus</i>	23
22:09	<i>Pipistrellus pipistrellus</i>	2
22:09	<i>Pipistrellus pipistrellus</i>	1
22:09	<i>Pipistrellus pipistrellus</i>	19
22:10	<i>Pipistrellus pipistrellus</i>	6
22:10	<i>Pipistrellus pipistrellus</i>	2
22:10	<i>Pipistrellus pipistrellus</i>	1
22:10	<i>Pipistrellus pipistrellus</i>	14
22:10	<i>Pipistrellus pipistrellus</i>	8
22:11	<i>Pipistrellus pipistrellus</i>	2
22:11	<i>Pipistrellus pipistrellus</i>	2
22:11	<i>Pipistrellus pipistrellus</i>	2
22:11	<i>Pipistrellus pygmaeus</i>	9
22:11	<i>Pipistrellus pygmaeus</i>	4
22:11	<i>Pipistrellus pipistrellus</i>	21
22:11	<i>Myotis spec.</i>	21
22:11	<i>Pipistrellus pygmaeus</i>	35
22:11	<i>Pipistrellus pipistrellus</i>	35
22:12	<i>Pipistrellus pipistrellus</i>	7
22:12	<i>Pipistrellus pipistrellus</i>	1

22:12	<i>Pipistrellus pipistrellus</i>	15
22:12	<i>Pipistrellus pygmaeus</i>	18
22:14	<i>Pipistrellus pipistrellus</i>	20
22:15	<i>Pipistrellus pipistrellus</i>	7
22:15	<i>Pipistrellus pipistrellus</i>	5
22:15	<i>Pipistrellus pipistrellus</i>	8
22:16	<i>Pipistrellus pipistrellus</i>	1
22:16	<i>Pipistrellus pipistrellus</i>	1
22:16	<i>Pipistrellus pipistrellus</i>	1
22:16	<i>Pipistrellus pipistrellus</i>	5
22:17	<i>Pipistrellus pipistrellus</i>	2
22:17	<i>Pipistrellus pygmaeus</i>	10
22:17	<i>Pipistrellus pygmaeus</i>	24
22:19	<i>Pipistrellus pipistrellus</i>	2
22:19	<i>Pipistrellus pipistrellus</i>	4
22:19	<i>Pipistrellus pipistrellus</i>	1
22:19	<i>Pipistrellus pipistrellus</i>	3
22:19	<i>Pipistrellus pipistrellus</i>	4
22:19	<i>Pipistrellus pipistrellus</i>	4
22:19	<i>Pipistrellus pipistrellus</i>	11
22:19	<i>Pipistrellus pipistrellus</i>	9
22:19	<i>Pipistrellus pipistrellus</i>	4
22:19	<i>Pipistrellus pipistrellus</i>	5
22:19	<i>Pipistrellus pipistrellus</i>	3
22:20	<i>Pipistrellus pipistrellus</i>	3
22:20	<i>Pipistrellus pipistrellus</i>	1
22:20	<i>Pipistrellus pipistrellus</i>	1
22:20	<i>Pipistrellus pipistrellus</i>	23

22:20	<i>Pipistrellus pygmaeus</i>	23
22:20	<i>Pipistrellus pipistrellus</i>	4
22:20	<i>Pipistrellus pipistrellus</i>	1
22:20	<i>Pipistrellus pipistrellus</i>	7
22:21	<i>Pipistrellus pipistrellus</i>	5
22:21	<i>Pipistrellus pipistrellus</i>	2
22:21	<i>Pipistrellus pipistrellus</i>	6
22:21	<i>Pipistrellus pipistrellus</i>	5
22:21	<i>Pipistrellus pipistrellus</i>	6
22:21	<i>Pipistrellus pipistrellus</i>	1
22:21	<i>Pipistrellus pipistrellus</i>	2
22:21	<i>Pipistrellus pipistrellus</i>	1
22:21	<i>Pipistrellus pygmaeus</i>	19
22:21	<i>Pipistrellus pipistrellus</i>	1
22:23	<i>Pipistrellus pygmaeus</i>	1
22:23	<i>Pipistrellus pygmaeus</i>	30
22:23	<i>Pipistrellus pygmaeus</i>	8
22:23	<i>Pipistrellus pipistrellus</i>	2
22:24	<i>Pipistrellus pipistrellus</i>	9
22:24	<i>Pipistrellus pipistrellus</i>	7
22:24	<i>Pipistrellus pipistrellus</i>	4
22:24	<i>Pipistrellus pipistrellus</i>	5
22:24	<i>Pipistrellus pipistrellus</i>	4
22:24	<i>Pipistrellus pipistrellus</i>	2
22:24	<i>Pipistrellus pipistrellus</i>	3
22:24	<i>Pipistrellus pipistrellus</i>	4
22:24	<i>Pipistrellus pipistrellus</i>	1
22:24	<i>Pipistrellus pipistrellus</i>	1

Surveyor Location 2 – Batlogger M2

Time	Species	Number of calls [#]
21:01	<i>Pipistrellus pipistrellus</i>	1
21:02	<i>Pipistrellus pygmaeus</i>	11
21:05	<i>Pipistrellus pipistrellus</i>	6
21:12	<i>Pipistrellus pipistrellus</i>	1
21:12	<i>Pipistrellus pipistrellus</i>	1
21:19	<i>Pipistrellus pipistrellus</i>	6
21:19	<i>Pipistrellus pipistrellus</i>	2
21:21	<i>Pipistrellus pygmaeus</i>	5
21:22	<i>Pipistrellus pipistrellus</i>	11
21:23	<i>Pipistrellus pipistrellus</i>	1
21:34	<i>Pipistrellus pipistrellus</i>	2
21:37	<i>Pipistrellus pipistrellus</i>	13
21:39	<i>Pipistrellus pipistrellus</i>	5
21:44	<i>Pipistrellus pipistrellus</i>	21
21:45	<i>Pipistrellus pipistrellus</i>	2
21:45	<i>Pipistrellus pipistrellus</i>	11

21:46	<i>Pipistrellus pipistrellus</i>	1
22:00	<i>Pipistrellus pipistrellus</i>	13
22:00	<i>Pipistrellus pygmaeus</i>	8
22:06	<i>Pipistrellus pygmaeus</i>	9
22:09	<i>Pipistrellus pygmaeus</i>	9
22:09	<i>Pipistrellus pygmaeus</i>	1
22:09	<i>Pipistrellus pygmaeus</i>	3
22:09	<i>Pipistrellus pygmaeus</i>	27
22:09	<i>Pipistrellus pygmaeus</i>	32
22:10	<i>Pipistrellus pygmaeus</i>	1
22:10	<i>Pipistrellus pygmaeus</i>	5
22:10	<i>Pipistrellus pygmaeus</i>	8
22:10	<i>Pipistrellus pygmaeus</i>	14
22:10	<i>Pipistrellus pygmaeus</i>	10
22:10	<i>Pipistrellus pygmaeus</i>	7
22:10	<i>Pipistrellus pygmaeus</i>	2
22:10	<i>Pipistrellus pygmaeus</i>	17

22:10	<i>Pipistrellus pygmaeus</i>	2
22:10	<i>Pipistrellus pygmaeus</i>	3
22:11	<i>Pipistrellus pygmaeus</i>	4
22:11	<i>Pipistrellus pygmaeus</i>	2
22:12	<i>Pipistrellus pipistrellus</i>	2
22:12	<i>Pipistrellus pipistrellus</i>	1

22:17	<i>Pipistrellus pipistrellus</i>	3
22:18	<i>Pipistrellus pygmaeus</i>	5
22:19	<i>Pipistrellus pygmaeus</i>	10
22:19	<i>Pipistrellus pipistrellus</i>	2
22:21	<i>Pipistrellus pygmaeus</i>	11

9th June 2026

Surveyor Location 1 – EMT2

Time	Species	Number of recordings [#]
21:37	<i>Pipistrellus pygmaeus</i>	1
22:08	<i>Pipistrellus pipistrellus</i>	1
22:24	<i>Pipistrellus pipistrellus</i>	1
22:24	<i>Eptesicus serotinus</i>	1
22:25	<i>Eptesicus serotinus</i>	1
22:27	<i>Plecotus auritus</i>	1

22:28	<i>Myotis daubentonii</i>	1
22:29	<i>Plecotus auritus</i>	1
22:29	<i>Pipistrellus pipistrellus</i>	1
22:35	<i>Plecotus auritus</i>	1
22:37	<i>Pipistrellus pipistrellus</i>	2
22:38	<i>Pipistrellus pipistrellus</i>	1
22:46	<i>Pipistrellus pipistrellus</i>	1

Surveyor Location 2 – Batlogger M2

Time	Species	Number of calls [#]
21:18	<i>Pipistrellus pygmaeus</i>	5
21:20	<i>Pipistrellus pygmaeus</i>	10
21:32	<i>Pipistrellus pygmaeus</i>	3
21:53	<i>Myotis spec.</i>	7
21:55	<i>Pipistrellus pygmaeus</i>	3
22:05	<i>Pipistrellus pipistrellus</i>	12
22:06	<i>Pipistrellus pipistrellus</i>	1

22:06	<i>Pipistrellus pipistrellus</i>	4
22:22	<i>Eptesicus serotinus</i>	18
22:23	<i>Eptesicus serotinus</i>	11
22:27	<i>Myotis spec.</i>	14
22:27	<i>Pipistrellus pipistrellus</i>	17
22:35	<i>Pipistrellus pipistrellus</i>	9
22:37	<i>Pipistrellus pipistrellus</i>	6

30th June 2026

Surveyor Location 1 – Batlogger M2

Time	Species	Number of calls [#]
21:24	<i>Pipistrellus pipistrellus</i>	4
21:39	<i>Pipistrellus pygmaeus</i>	18
21:41	<i>Pipistrellus pipistrellus</i>	5
21:49	<i>Pipistrellus pipistrellus</i>	19
21:57	<i>Pipistrellus pipistrellus</i>	8
22:01	<i>Pipistrellus pipistrellus</i>	11
22:01	<i>Pipistrellus pygmaeus</i>	18
22:03	<i>Pipistrellus pygmaeus</i>	2
22:04	<i>Pipistrellus pipistrellus</i>	23
22:05	<i>Pipistrellus pygmaeus</i>	9
22:08	<i>Pipistrellus pipistrellus</i>	13
22:09	<i>Pipistrellus pipistrellus</i>	12
22:09	<i>Pipistrellus pipistrellus</i>	4
22:09	<i>Pipistrellus pipistrellus</i>	21
22:09	<i>Pipistrellus pipistrellus</i>	8

22:09	<i>Pipistrellus pipistrellus</i>	8
22:09	<i>Pipistrellus pipistrellus</i>	8
22:10	<i>Pipistrellus pipistrellus</i>	4
22:10	<i>Pipistrellus pipistrellus</i>	8
22:11	<i>Pipistrellus pipistrellus</i>	15
22:11	<i>Pipistrellus pipistrellus</i>	8
22:11	<i>Pipistrellus pipistrellus</i>	9
22:11	<i>Pipistrellus pipistrellus</i>	4
22:12	<i>Pipistrellus pipistrellus</i>	10
22:12	<i>Pipistrellus pipistrellus</i>	8
22:12	<i>Pipistrellus pipistrellus</i>	13
22:12	<i>Pipistrellus pipistrellus</i>	3
22:13	<i>Pipistrellus pipistrellus</i>	9
22:13	<i>Pipistrellus pipistrellus</i>	1
22:14	<i>Pipistrellus pipistrellus</i>	24
22:14	<i>Pipistrellus pipistrellus</i>	3

22:14	<i>Pipistrellus pipistrellus</i>	5
22:15	<i>Pipistrellus pipistrellus</i>	5
22:15	<i>Pipistrellus pipistrellus</i>	7
22:15	<i>Pipistrellus pipistrellus</i>	3
22:15	<i>Pipistrellus pipistrellus</i>	2
22:15	<i>Pipistrellus pipistrellus</i>	8
22:16	<i>Pipistrellus pipistrellus</i>	24
22:16	<i>Pipistrellus pipistrellus</i>	9
22:16	<i>Pipistrellus pipistrellus</i>	3
22:16	<i>Pipistrellus pipistrellus</i>	1
22:16	<i>Pipistrellus pipistrellus</i>	5
22:17	<i>Pipistrellus pipistrellus</i>	1
22:17	<i>Pipistrellus pipistrellus</i>	2
22:18	<i>Pipistrellus pipistrellus</i>	8
22:18	<i>Pipistrellus pipistrellus</i>	16
22:18	<i>Barbastella barbastellus</i>	1
22:18	<i>Pipistrellus pipistrellus</i>	16
22:18	<i>Pipistrellus pipistrellus</i>	3
22:19	<i>Pipistrellus pipistrellus</i>	7
22:19	<i>Pipistrellus pipistrellus</i>	11
22:19	<i>Pipistrellus pygmaeus</i>	1
22:19	<i>Pipistrellus pipistrellus</i>	8
22:20	<i>Pipistrellus pipistrellus</i>	1
22:20	<i>Pipistrellus pygmaeus</i>	24
22:20	<i>Pipistrellus pipistrellus</i>	12
22:21	<i>Pipistrellus pipistrellus</i>	6
22:21	<i>Pipistrellus pipistrellus</i>	11
22:21	<i>Pipistrellus pipistrellus</i>	1
22:21	<i>Pipistrellus pipistrellus</i>	2
22:21	<i>Pipistrellus pipistrellus</i>	8
22:22	<i>Pipistrellus pipistrellus</i>	1
22:22	<i>Pipistrellus pipistrellus</i>	7
22:22	<i>Pipistrellus pipistrellus</i>	6
22:23	<i>Pipistrellus pipistrellus</i>	2
22:23	<i>Pipistrellus pipistrellus</i>	9
22:23	<i>Pipistrellus pipistrellus</i>	7
22:23	<i>Pipistrellus pygmaeus</i>	3
22:23	<i>Pipistrellus pygmaeus</i>	21
22:23	<i>Pipistrellus pygmaeus</i>	18
22:23	<i>Pipistrellus pipistrellus</i>	10
22:23	<i>Pipistrellus pygmaeus</i>	2
22:24	<i>Pipistrellus pipistrellus</i>	4
22:24	<i>Pipistrellus pygmaeus</i>	13
22:24	<i>Pipistrellus pygmaeus</i>	4
22:24	<i>Pipistrellus pygmaeus</i>	2
22:24	<i>Pipistrellus pygmaeus</i>	14
22:24	<i>Pipistrellus pipistrellus</i>	4

22:24	<i>Pipistrellus pipistrellus</i>	15
22:24	<i>Pipistrellus pipistrellus</i>	5
22:25	<i>Pipistrellus pipistrellus</i>	9
22:25	<i>Pipistrellus pygmaeus</i>	15
22:27	<i>Pipistrellus pipistrellus</i>	12
22:27	<i>Pipistrellus pipistrellus</i>	7
22:27	<i>Pipistrellus pipistrellus</i>	12
22:28	<i>Pipistrellus pipistrellus</i>	8
22:28	<i>Pipistrellus pygmaeus</i>	11
22:28	<i>Pipistrellus pygmaeus</i>	12
22:28	<i>Pipistrellus pygmaeus</i>	13
22:29	<i>Pipistrellus pipistrellus</i>	6
22:29	<i>Pipistrellus pipistrellus</i>	4
22:29	<i>Pipistrellus pipistrellus</i>	9
22:29	<i>Pipistrellus pipistrellus</i>	5
22:30	<i>Pipistrellus pygmaeus</i>	16
22:30	<i>Pipistrellus pygmaeus</i>	14
22:30	<i>Pipistrellus pygmaeus</i>	9
22:30	<i>Pipistrellus pygmaeus</i>	11
22:30	<i>Pipistrellus pygmaeus</i>	1
22:30	<i>Pipistrellus pygmaeus</i>	4
22:30	<i>Pipistrellus pygmaeus</i>	17
22:30	<i>Pipistrellus pygmaeus</i>	4
22:31	<i>Pipistrellus pygmaeus</i>	4
22:31	<i>Pipistrellus pygmaeus</i>	13
22:31	<i>Pipistrellus pipistrellus</i>	5
22:31	<i>Pipistrellus pygmaeus</i>	15
22:31	<i>Pipistrellus pipistrellus</i>	24
22:32	<i>Pipistrellus pygmaeus</i>	4
22:32	<i>Pipistrellus pygmaeus</i>	19
22:33	<i>Pipistrellus pygmaeus</i>	3
22:33	<i>Pipistrellus pygmaeus</i>	16
22:33	<i>Pipistrellus pygmaeus</i>	5
22:33	<i>Pipistrellus pipistrellus</i>	24
22:33	<i>Pipistrellus pygmaeus</i>	18
22:34	<i>Pipistrellus pygmaeus</i>	16
22:34	<i>Pipistrellus pygmaeus</i>	18
22:34	<i>Pipistrellus pygmaeus</i>	17
22:34	<i>Pipistrellus pygmaeus</i>	18
22:34	<i>Pipistrellus pipistrellus</i>	3
22:34	<i>Pipistrellus pygmaeus</i>	16
22:34	<i>Pipistrellus pygmaeus</i>	16
22:35	<i>Pipistrellus pygmaeus</i>	15
22:35	<i>Pipistrellus pygmaeus</i>	27
22:35	<i>Pipistrellus pygmaeus</i>	17
22:35	<i>Pipistrellus pygmaeus</i>	12
22:35	<i>Pipistrellus pygmaeus</i>	9

22:35	<i>Pipistrellus pygmaeus</i>	2
22:35	<i>Pipistrellus pygmaeus</i>	20
22:36	<i>Pipistrellus pygmaeus</i>	18
22:36	<i>Pipistrellus pygmaeus</i>	18
22:36	<i>Pipistrellus pygmaeus</i>	27
22:36	<i>Pipistrellus pygmaeus</i>	14
22:36	<i>Pipistrellus pygmaeus</i>	3
22:36	<i>Pipistrellus pygmaeus</i>	17
22:36	<i>Pipistrellus pygmaeus</i>	9
22:37	<i>Pipistrellus pygmaeus</i>	17
22:37	<i>Pipistrellus pygmaeus</i>	1
22:37	<i>Pipistrellus pygmaeus</i>	16
22:37	<i>Pipistrellus pygmaeus</i>	21
22:37	<i>Pipistrellus pygmaeus</i>	17
22:38	<i>Pipistrellus pygmaeus</i>	10
22:38	<i>Pipistrellus pygmaeus</i>	12
22:38	<i>Pipistrellus pygmaeus</i>	27
22:38	<i>Pipistrellus pygmaeus</i>	16
22:38	<i>Pipistrellus pygmaeus</i>	14
22:39	<i>Pipistrellus pygmaeus</i>	42
22:39	<i>Pipistrellus pygmaeus</i>	18
22:39	<i>Pipistrellus pygmaeus</i>	24
22:39	<i>Pipistrellus pygmaeus</i>	21
22:39	<i>Pipistrellus pygmaeus</i>	43
22:39	<i>Pipistrellus pygmaeus</i>	36
22:40	<i>Pipistrellus pipistrellus</i>	4
22:40	<i>Pipistrellus pipistrellus</i>	6
22:40	<i>Pipistrellus pipistrellus</i>	10
22:40	<i>Pipistrellus pygmaeus</i>	21
22:40	<i>Pipistrellus pipistrellus</i>	10
22:40	<i>Pipistrellus pygmaeus</i>	29
22:41	<i>Pipistrellus pygmaeus</i>	29
22:41	<i>Pipistrellus pipistrellus</i>	23
22:41	<i>Pipistrellus pygmaeus</i>	2
22:41	<i>Pipistrellus pygmaeus</i>	2
22:41	<i>Pipistrellus pygmaeus</i>	8
22:42	<i>Pipistrellus pygmaeus</i>	2
22:42	<i>Plecotus spec.</i>	1
22:42	<i>Pipistrellus pygmaeus</i>	3
22:42	<i>Pipistrellus pygmaeus</i>	2
22:42	<i>Pipistrellus pygmaeus</i>	13
22:42	<i>Pipistrellus pygmaeus</i>	9
22:42	<i>Pipistrellus pygmaeus</i>	35
22:43	<i>Pipistrellus pygmaeus</i>	13
22:43	<i>Pipistrellus pipistrellus</i>	3
22:43	<i>Pipistrellus pygmaeus</i>	15
22:43	<i>Pipistrellus pygmaeus</i>	9

22:43	<i>Pipistrellus pygmaeus</i>	1
22:43	<i>Pipistrellus pygmaeus</i>	13
22:43	<i>Pipistrellus pipistrellus</i>	2
22:43	<i>Pipistrellus pygmaeus</i>	12
22:44	<i>Pipistrellus pygmaeus</i>	11
22:44	<i>Pipistrellus pygmaeus</i>	15
22:44	<i>Pipistrellus pygmaeus</i>	16
22:44	<i>Pipistrellus pygmaeus</i>	17
22:45	<i>Pipistrellus pygmaeus</i>	3
22:45	<i>Pipistrellus pygmaeus</i>	1
22:45	<i>Pipistrellus pygmaeus</i>	18
22:45	<i>Pipistrellus pygmaeus</i>	12
22:46	<i>Pipistrellus pygmaeus</i>	18
22:46	<i>Pipistrellus pygmaeus</i>	36
22:46	<i>Pipistrellus pygmaeus</i>	14
22:46	<i>Pipistrellus pygmaeus</i>	16
22:46	<i>Pipistrellus pygmaeus</i>	5
22:47	<i>Pipistrellus pygmaeus</i>	12
22:47	<i>Pipistrellus pygmaeus</i>	13
22:48	<i>Pipistrellus pygmaeus</i>	4
22:48	<i>Pipistrellus pygmaeus</i>	14
22:48	<i>Pipistrellus pipistrellus</i>	1
22:48	<i>Pipistrellus pygmaeus</i>	15
22:48	<i>Pipistrellus pygmaeus</i>	34
22:48	<i>Pipistrellus pipistrellus</i>	1
22:49	<i>Pipistrellus pygmaeus</i>	11
22:49	<i>Pipistrellus pygmaeus</i>	11
22:49	<i>Pipistrellus pygmaeus</i>	25
22:49	<i>Pipistrellus pygmaeus</i>	38
22:49	<i>Pipistrellus pygmaeus</i>	12
22:49	<i>Pipistrellus pygmaeus</i>	11
22:50	<i>Pipistrellus pygmaeus</i>	4
22:50	<i>Pipistrellus pygmaeus</i>	17
22:50	<i>Pipistrellus pygmaeus</i>	15
22:50	<i>Pipistrellus pipistrellus</i>	1
22:50	<i>Pipistrellus pygmaeus</i>	8
22:51	<i>Pipistrellus pygmaeus</i>	23
22:51	<i>Pipistrellus pipistrellus</i>	4
22:51	<i>Pipistrellus pygmaeus</i>	16
22:51	<i>Pipistrellus pygmaeus</i>	19
22:52	<i>Pipistrellus pygmaeus</i>	21
22:52	<i>Pipistrellus pygmaeus</i>	44
22:52	<i>Pipistrellus pygmaeus</i>	10
22:52	<i>Pipistrellus pygmaeus</i>	22
22:52	<i>Pipistrellus pygmaeus</i>	18
22:52	<i>Pipistrellus pygmaeus</i>	18
22:53	<i>Pipistrellus pygmaeus</i>	16

22:53	<i>Pipistrellus pygmaeus</i>	19
22:53	<i>Pipistrellus pipistrellus</i>	21

22:53	<i>Pipistrellus pygmaeus</i>	12
22:23	<i>Pipistrellus pipistrellus</i>	2

Surveyor Location 2 – Batlogger M2

Time	Species	Number of calls [#]
21:17	<i>Pipistrellus pipistrellus</i>	9
21:23	<i>Pipistrellus pygmaeus</i>	9
21:25	<i>Pipistrellus pipistrellus</i>	4
21:31	<i>Pipistrellus pipistrellus</i>	4
21:47	<i>Pipistrellus pipistrellus</i>	4
21:55	<i>Pipistrellus pipistrellus</i>	3
21:56	<i>Pipistrellus pipistrellus</i>	3
21:56	<i>Pipistrellus pipistrellus</i>	3
21:56	<i>Pipistrellus pipistrellus</i>	3
21:56	<i>Pipistrellus pipistrellus</i>	4
21:56	<i>Pipistrellus pipistrellus</i>	4
21:57	<i>Pipistrellus pipistrellus</i>	1
21:57	<i>Pipistrellus pipistrellus</i>	3
21:57	<i>Pipistrellus pipistrellus</i>	2
21:57	<i>Pipistrellus pipistrellus</i>	2
21:58	<i>Pipistrellus pipistrellus</i>	2
21:58	<i>Pipistrellus pipistrellus</i>	3
21:58	<i>Pipistrellus pipistrellus</i>	0
21:58	<i>Pipistrellus pipistrellus</i>	5
21:58	<i>Pipistrellus pipistrellus</i>	2
21:58	<i>Pipistrellus pipistrellus</i>	1
21:58	<i>Pipistrellus pipistrellus</i>	3
21:58	<i>Pipistrellus pipistrellus</i>	5
21:59	<i>Pipistrellus pipistrellus</i>	11
21:59	<i>Pipistrellus pipistrellus</i>	4
21:59	<i>Pipistrellus pipistrellus</i>	4
21:59	<i>Pipistrellus pipistrellus</i>	3
21:59	<i>Pipistrellus pipistrellus</i>	0
22:03	<i>Pipistrellus pipistrellus</i>	5
22:03	<i>Pipistrellus pipistrellus</i>	3
22:03	<i>Pipistrellus pipistrellus</i>	10
22:04	<i>Pipistrellus pipistrellus</i>	9
22:04	<i>Pipistrellus pipistrellus</i>	18
22:05	<i>Pipistrellus pipistrellus</i>	11
22:05	<i>Pipistrellus pipistrellus</i>	12
22:06	<i>Pipistrellus pipistrellus</i>	18
22:06	<i>Pipistrellus pipistrellus</i>	9
22:06	<i>Pipistrellus pipistrellus</i>	2
22:06	<i>Pipistrellus pipistrellus</i>	1
22:07	<i>Pipistrellus pipistrellus</i>	3

22:07	Pipistrellus pipistrellus	4
22:07	Pipistrellus pipistrellus	4
22:07	Pipistrellus pipistrellus	8
22:07	Pipistrellus pipistrellus	2
22:08	Pipistrellus pipistrellus	2
22:08	Pipistrellus pipistrellus	14
22:08	Pipistrellus pipistrellus	10
22:08	Pipistrellus pipistrellus	14
22:09	Pipistrellus pipistrellus	6
22:09	Pipistrellus pipistrellus	5
22:09	Pipistrellus pipistrellus	9
22:11	Pipistrellus pipistrellus	19
22:11	Pipistrellus pipistrellus	19
22:11	Pipistrellus pipistrellus	1
22:11	Pipistrellus pipistrellus	5
22:12	Pipistrellus pipistrellus	2
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22:14	Pipistrellus pipistrellus	9
22:15	Pipistrellus pipistrellus	3
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22:16	Pipistrellus pipistrellus	7
22:17	Pipistrellus pipistrellus	6
22:17	Pipistrellus pipistrellus	13
22:17	Pipistrellus pipistrellus	8
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22:18	Pipistrellus pygmaeus	1
22:18	Pipistrellus pipistrellus	4
22:18	Pipistrellus pipistrellus	8
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22:19	Pipistrellus pipistrellus	4
22:19	Pipistrellus pipistrellus	17

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22:22	Pipistrellus pygmaeus	7
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22:26	Pipistrellus pygmaeus	12
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22:33	Pipistrellus pygmaeus	16
22:33	Pipistrellus pipistrellus	6
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22:36	Pipistrellus pygmaeus	35
22:36	Pipistrellus pygmaeus	15
22:36	Pipistrellus pygmaeus	1

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22:37	Pipistrellus pygmaeus	10
22:39	Pipistrellus pygmaeus	31
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22:45	Pipistrellus pygmaeus	12
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22:46	Pipistrellus pipistrellus	1
22:47	Pipistrellus pipistrellus	1
22:47	Pipistrellus pygmaeus	9
22:48	Pipistrellus pipistrellus	4

APPENDIX 3 – PROPOSED ELEVATIONS

