

APPENDIX E

Nocturnal Survey Results

Long Copse Lane PO10 7UL

Notes Prepared: 2nd August 2021

Cotswold Environmental Ltd | Gloucestershire | Wiltshire

e: info@cotswoldenvironmental.co.uk

w: www.cotswoldenvironmental.co.uk

Office: 01453 823546

Mobile: 07557539979

Methodology

Nocturnal survey effort was carried out by ecologists Tom Charlton, Jason Skinner (NE Class 2 Bat Survey licence 2020-50774-CLS-CLS) and Kayleigh Stewart. Surveyor positions are shown in Site Maps: Fig. 1 and Fig 2).

During the dusk emergence survey, surveyors took up separate static positions 15 minutes prior to and 1.5 hours after sunset. During the dawn re-entry survey, surveyors took up the same position 1.5 hours prior to and 15 minutes after sunrise. Visual observations of bats were noted, and bat species were identified using bat detectors. The information recorded included weather, timings, whether bats emerged or re-entered the building, direction of travel, species and activity e.g. foraging, commuting. Equipment used during the nocturnal surveys included 3 x Echo Meter Touch II recording devices coupled to Apple devices and 3 x heterodyne bat detectors. Additionally, two infrared-imaging systems coupled with infrared lighting was used to strengthen the survey data.

Temperatures were recorded onsite using an Elitech RC-51 Temperature Logger.

Results

The Old Dairy Residential Dwelling – Building 1

Surveyors: Tom Charlton, Jason Skinner and Kayleigh Stewart

Date	Start	Finish	Sunrise/Sunset	Temp °C	Wind	Cloud	Rain	Notes
10/06/21	21:00	22:46	21:16	18	Calm	76%	dry	n/a
27/07/21	03:45	05:45	05:23	16	Calm	90%	dry	Rain before survey

Survey 1 (Dusk emergence) 10/06/21

During the dusk nocturnal survey, completed on the 10th June 2021, four species of bat were recorded - common pipistrelle, soprano pipistrelle, brown long-eared and noctule. Activity consisted of commuting passes by low numbers of common pipistrelle between 21:41-22:06 h, all travelling in a southerly direction adjacent to the north-west facing gable wall. Two BLE were briefly observed utilising the same commuting route. Additionally, three distant non-visual passes by soprano pipistrelle were recorded, and a single commuting noctule observed at 21:57, travelling in an easterly direction to the rear (north) of the surveyed building. **At no point during the survey were any bats observed emerging from or re-entering the building.** Notable bat activity is shown in Figure 1: Nocturnal survey results map.

Survey 2 (Dawn re-entry) 27/07/21

During the dawn nocturnal survey, completed on the 27th July 2021, two species of bat were recorded - common pipistrelle and soprano pipistrelle. Observations/recordings consisted of infrequent commuting passes by low numbers of common pipistrelle between 04:25 – 04:49 h, with activity being most notable within the rear garden area to the north of the surveyed building, followed by commuting along the same flight-path at the north-west facing gable wall as observed during the first nocturnal survey. Furthermore, two brief non-visual passes by soprano were made during the same period. No further bat species were recorded, and **at no point during the survey were any bats observed emerging from or re-entering the building.**

Hollybank Farm

Date	Start	Finish	Sunrise/Sunset	Temp °C	Wind	Cloud	Rain	Notes
11/06/21	03:20	05:05	04:50	15	Calm	70%	Dry	n/a
26/07/21	20:40	22:30	20:56	19	Still	80%	Dry	n/a

Residential Dwelling – Building 8

Surveyors: Jason Skinner and Kayleigh Stewart

Survey 1 (Dawn re-entry) 11/06/21

During the dawn nocturnal survey on B8, completed on the 11th June 2021, two species of bat were recorded - common pipistrelle, soprano pipistrelle. Activity consisted of low numbers of commuting passes by common pipistrelle between 04:11-04:39 h. Additionally, infrequent foraging activity by two individuals of the same species was noted above a fruit tree located within the rear garden area. One pass by a soprano pipistrelle was made at 04:39, and **a single soprano pipistrelle was observed briefly making exploratory flight at the north-facing gable end by Surveyor 2 before re-entering**

the building at 04:42. The re-entry location was identified as a gap at the apex of the north-facing gable wall (**see Photo 1**).

Survey 2 (Dusk emergence) 26/07/21

During the dusk nocturnal survey, completed on the 26th July 2021, two species of bat were recorded - common pipistrelle, soprano pipistrelle. Activity consisted of regular commuting passes by soprano pipistrelle between 21:50-22:15 h at both the north and south facing elevations of the surveyed building, as well as infrequent passes by common pipistrelle during the same period. Foraging activity by a low numbers of soprano pipistrelle was also observed above trees within the northern and southern garden areas. **At no point during the survey were any bats observed emerging from or re-entering the building.**



Photo 1: Red arrow points to soprano pipistrelle re-entry location

Outbuilding – Building 3

Surveyor: Tom Charlton

During the dawn survey on Building 3, completed on the 11th of June 2021, no bats were observed or recorded and **at no point during the survey were any bats observed emerging from or re-entering the building.**

Notes reported by:

Tom Charlton MRSB

Info@cotswoldenvironmental.co.uk

Cotswold Environmental Ltd | Gloucestershire | Wiltshire

Figure 1: Nocturnal survey map The Old Dairy

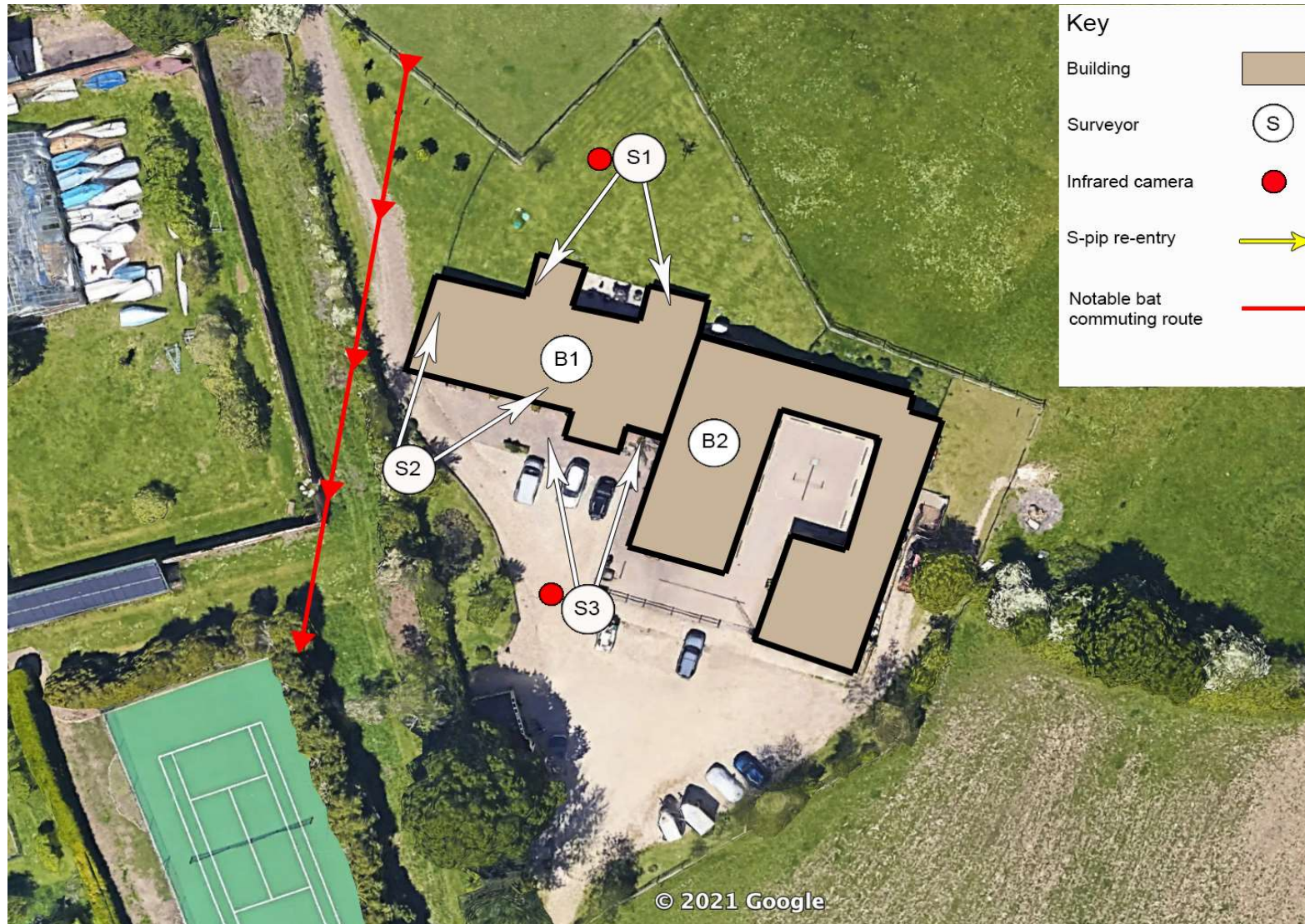


Figure 2: Nocturnal survey map Hollybank Farm

