LIZARD
Landscape Design and Ecology

BAT EMERGENCE SURVEY REPORT

6 Furze Close, High Salvington, Worthing

On behalf of: ECE Architecture

Client:	ECE Architecture			
Project:	6 Furze Close, High Salvington, Worthing			
Reference:	LLD3218-ECO-REP-002-00-BES			
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Validity:

This report is valid for 18 months from the date of the site visit. If works have not commenced by this date, an updated site visit should be carried out by a suitably qualified ecologist to assess any changes in the habitats present on site, and to inform a review of the conclusions and recommendations made.

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SUMMARY

Lizard Landscape Design and Ecology has been commissioned to undertake a bat emergence survey of 6 Furze Close, High Salvington, Worthing (*Grid Reference: TQ 1182 0666– hereafter referred to as 'the site'*).

The existing dwelling on site was categorised as offering 'moderate' bat roost suitability during the Preliminary Roost Assessment undertaken on the 23rd of April 2024. The summer house was categorised as offering 'negligible' suitability. Dusk bat emergence surveys of the building were completed on the 13th of May and the 4th of June 2024 to ascertain the presence / likely absence of a roost within the building.

No bats were seen to emerge from the building at any time during the survey period.

There were a number of common pipistrelles *Pipistrellus pipistrellus* bats recorded foraging in the garden area, around the trees to the north of the dwelling and commuting overhead throughout both survey visits. Noctule *Nyctalus noctule*, Natterers *Myotis nattereri*, myotis sp., brown long-eared *Plecotus auritus* and serotine *Eptesicus serotinus* bat species were also heard but not seen during the survey on the 13th of May 2024.

The results of the survey strongly suggest the likely absence of a bat roost within the site. No further survey visits or any mitigation measures are required; the scheme is considered highly unlikely to contravene the protection afforded bats under The Conservation of Habitats and Species Regulations 2017 (as amended).

1.0 INTRODUCTION

1.1 Lizard Landscape Design and Ecology has been commissioned to undertake a bat emergence survey of 6 Furze Close, High Salvington, Worthing (*Grid Reference: TQ 1182 0666 – hereafter referred to as 'the site'*).

1.2 The existing dwelling on site was categorised as offering 'moderate' bat roost suitability during the Preliminary Roost Assessment undertaken on the 23rd of April 2024. The summer house was categorised as offering 'negligible' suitability. The purpose of the survey and this report is to establish the presence or absence of a bat roost within the building and allow the full impact of the proposed development to be established.

1.3 This report has been compiled in accordance with current guidelines, including British Standard 42020:2013 Biodiversity. Code of Practice for Planning and Development, 2013 and Bat Conservation Trust Best Practise Guidelines 2016.

Site Information

1.4 The site covers an area of c. 0.2 hectares (ha) and is located on the western edge of Furze Close, Worthing. The site consists of a detached dwelling with associated areas of hard standing, grassland with scattered trees, mixed scrub and a predominantly non-native hedgerow along the northern boundary. Along the north and west boundary of the site is a narrow strip of woodland, this is part of a larger area of Priority Habitat, Lowland Mixed Deciduous Woodland.



Figure No. 01 – Site Location

1.5 4no. of the trees on site are protected under a Tree Preservation Order; a hornbeam *Carpinus betulus*, copper beach *Fagus sylvatica f. purpurea* and beech *Fagus sylvatica* along the southern boundary and a sycamore *Acer pseudoplatanus* along the western boundary; these trees will be retained and protected during development.

Surrounding Landscape

1.6 The site is located within a suburban setting. Directly north and west of the site boundaries lies the South Downs National Park, with High Salvington, a neighbourhood of Worthing, to the south and east. The town of Worthing lies c. 4.8km south-east of the site and the A27 is c. 0.8km south of the site. The soil within this location is freely draining, slightly acid loamy soil. The surrounding habitat is considered to be suitable for more light tolerant species of bat such as noctule and pipistrelles *Pipistrellus* sp.

Development Proposals

1.7 It is understood that the proposals are for the demolition of the existing dwelling and summer house and for 2no. detached plots to be constructed.

2.0 SCOPE OF THE SURVEY

2.1 The aim of the survey has been:

- To assess the buildings for signs of current use by bats;
- To establish the location of any roosts if present;
- To establish the numbers and species of bats present;
- To identify access points and flight lines to and from the building;
- To provide suitable mitigation measures if required.

3.0 METHODOLOGY

3.1 Bat Emergence / Re-entry Surveys

3.1.1 In accordance with current best practise guidelines (Collins, 2023), a single bat emergence survey of building 4 was completed on the 23rd of May 2024 to ascertain the presence / likely absence of a roost within the building.

3.1.2 3no. bat surveyors were assigned a point each to adequately cover all potential roost features of the building. 2no. infra-red cameras with additional illuminators were also used to aid the survey (*Refer to Figure No. 02 – Location of Survey Points*).

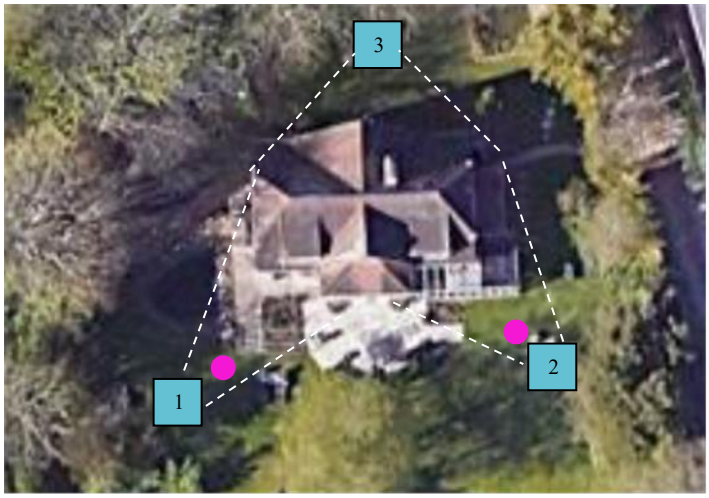

Figure No. 02 - Location of Survey Points and IR cameras.

3.1.3 The survey started 15 minutes before sunset and terminated approximately 1.5 hours after sunset. Data including species, behaviour and general patterns of activity were recorded throughout the survey. Details of the survey visits can be found in *Table No. 01*.

Table No. 01 – Bat Emergence Survey Details

Date	13/05/24	04/06/24
Survey Type	Dusk	Dusk
Surveyors	HS, EH, PA	WM, AC, FB
Weather	15ºC, WF2, 70% cloud, light rain	18ºC, WF3, 80% cloud, dry
Sunset	20:41	21:10
Start	20:26	20:55
Finish	22:11	22:40

Data Analysis

3.1.4 Bats were identified using Echo Meter Touch Pro 2 and Peersonic RPA3 full spectrum bat detectors. Sonogram analysis was undertaken using the Kaleidoscope programme.

Surveyor Details

3.1.5 The survey was led by a licenced surveyor, assisted by experienced ecologists. The following surveyors were used during these surveys:

- Will Mills – Consultant Ecologist with 6 years survey experience (Accredited agent under 2016-20460-CLS-CLS).
- Hayley Swann – Consultant Ecologist with 3 years survey experience.
- Fleur Booth – Assistant ecologist with 2 years survey experience.
- Eve Hills – Assistant ecologist with 2 years survey experience
- Penny Andrews – Field ecologist with 1 year survey experience
- Adam Cowell - Field ecologist with 2 years survey experience

3.2 Limitation and Constraints

3.2.1 No limitations to the emergence survey were encountered, the survey was undertaken at the optimal time of year and in suitable weather conditions for bats to be active.

4.0 RESULTS

4.1 Desk Study

4.1.1 There was a single European Protected Species Mitigation Licence Record in relation to bats issued within 2.0km of the site, which was located c. 1.8km north-east of the site, which allowed the destruction of a resting place of brown long-eared and serotine bats in 2018.

4.2 Preliminary Roost Assessment

4.2.1 The initial survey completed in April 2024 assessed the two-storey dwelling which was located within the site area. The dwelling had clay roof tiles with dormer windows with hanging tile present along the southern boundary. Gaps were noted between several of the roof tiles and hanging tile, and there were gaps noted near the flashing along the southern boundary. The loft space was tightly sealed with cobwebs along the pitch of the roof. There was no direct evidence of bats internally or externally. For full details of the Preliminary Roost Assessment refer to the Preliminary Ecological Appraisal (LLD3218-ECO-REP-001-01).

4.3 Bat Emergence / Re-entry Surveys

4.3.1 No bats were seen to emerge from the building at any time during the survey period.

4.3.2 During the survey on 13th May, the first common pipistrelle was seen at 20:50 foraging in the trees to the north of the house. Activity from common pipistrelle, which included foraging in the southern garden area, commuting overhead and foraging in the trees to the north continued on site until 22:00. Noctule, Natterers, myotis *sp*., brown long-eared and serotine bat species were also heard but not seen during the survey

4.3.3 During the survey on the 4th of June, the first common pipistrelle was seen at 21:29 foraging in the garden area to the north of the site. Activity from common pipistrelle was similar to that of the first survey, although was not as frequent. Common pipistrelle was last seen on site 22:05 foraging from the north to the south of the site. There were no other bat species recorded during the survey.

5.0 EVALUATION AND CONCLUSION

5.1 The results of the survey strongly suggest the likely absence of a bat roost within the dwelling.

5.2 Given the results of the survey, no further survey visits or any mitigation measures are required. The scheme is considered highly unlikely to contravene the protection afforded bats under The Conservation of Habitats and Species Regulations 2017 (as amended).

5.3 The scheme should provide ecological enhancements for the benefit of biodiversity, including enhancements for bats. Measures should include the installation of 1no. crevice bat box to the southern aspect of an adjacent mature tree.

6.0 REFERENCES

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Appendix A – Full Survey Results

Visit 1

Date	13/05/24
Survey Type	Dusk
Sunrise / Sunset	20:41
Start Time	20:26
End Time	22:11
Start Temp	15 ºC
End Temp	14
Wind (Beaufort)	2
Cloud Cover	5/8
Rain	Light and Partial

Surveyor	HS	
Point	1	
Time	**Species**	**Notes**
20:41	myotis	HNS
21:01	cpip	Flew from west
21:02	cpip	Foraging in garden area
21:04	cpip	Foraging over survey point in garden area
21:11	cpip	Flew from south towards the north-west
21:12	cpip	Flew north-east over house and over survey point
21:14	cpip	HNS
21:21	cpip	Flew from north towards south-west
21:25	cpip	HNS
21:53	serotine	HNS
22:00	cpip	Foraging over survey point

Surveyor	EH	
Point	2	
Time	**Species**	**Notes**
20:41	myotis	HNS
21:01	cpip	Flew from west
21:02	cpip	Foraging in garden area
21:04	cpip	Foraging over survey point in garden area
21:11	cpip	Flew from south towards the north-west
21:12	cpip	Flew north-east over house and over survey point
21:14	cpip	HNS
21:21	cpip	Flew from north towards south-west
21:25	cpip	HNS
21:53	serotine	HNS
22:00	cpip	Foraging over survey point
20:41	myotis	HNS
21:01	cpip	Flew from west

21:02	cpip	Foraging in garden area
21:04	cpip	Foraging over survey point in garden area
21:11	cpip	Flew from south towards the north-west
21:12	cpip	Flew north-east over house and over survey point
21:14	cpip	HNS
21:21	cpip	Flew from north towards south-west
21:25	cpip	HNS
21:53	serotine	HNS
22:00	cpip	Foraging over survey point
22:12	noctule	HNS

Surveyor	PA	
Point	3	
Time	**Species**	**Notes**
20:35	noctule	HNS
20:49	cpip	HNS
20:50	cpip	Foraging in trees north of house
20:51	cpip	Foraging in trees north of house
20:51	cpip	Commuting south to north along side of house
20:52	cpip	Commuting north to south along side of house
21:01	cpip	Communting west to east in front of house
21:01	cpip	Foraging in trees north of house
21:02	cpip	Commuting north to south along side of house
21:14	cpip	Commuting east to west in front of house
21:19	cpip	HNS
21:21	cpip	HNS
21:22	cpip	HNS
21:22	cpip	HNS
21:25	cpip	HNS
21:30	ble	HNS

Visit 2

Date	04/06/24
Survey Type	Dusk
Sunrise / Sunset	21:10
Start Time	20:55
End Time	22:40
Start Temp	18 ºC
End Temp	14
Wind (Beaufort)	3
Cloud Cover	7/8
Rain	None

Surveyor	FB	
Point	1	
Time	**Species**	**Notes**
21:29	pip	HNS
21:31	cpip	Foraging to the south west of b1
21:32	cpip	Foraging to the south of b1
21:35	cpip	Foraging east to west
21:38	cpip	HNS
21:40	cpip	Flying north to south 4 bats
21:42	cpip	Foraging to the south
21:47	cpip	HNS
21:51	cpip	HNS
21:53	cpip	HNS
21:55	cpip	Foraging west to east
21:56	cpip	HNS
21:58	cpip	Foraging west to east, came.from trees
22:05	cpip	Foraging North to.south
22:08	cpip	HNS

Surveyor	WM	
Point	2	
Time	**Species**	**Notes**
21:27	cpip	HNS very faint call
21:32	cpip	Flew from the tree line to the north and foraged around the garden
21:39	cpip	Flew over the building from the south towards the north
21:46	cpip	Foraging around the garden then headed north
21:56	cpip	Flew from the tree line to the north and foraged around the garden

Surveyor	AC	
Point	3	
Time	**Species**	**Notes**
21:29 - 21:36	cpip	Foraging around the garden
21:41 - 21:44	cpip	Foraging around the garden
21:47 - 21:56	cpip	HNS
21:57	cpip	Foraging around the garden
21:59	cpip	HNS
22:07	cpip	HNS