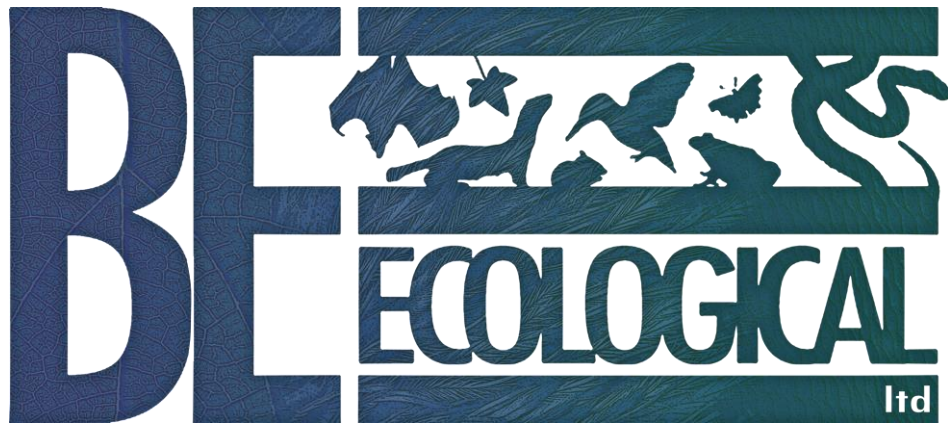




**THE CROFT SHOP, QUEENS ROAD, TWNYRODYN, MERTHYR
TYDFIL**

**BAT ACTIVITY SURVEY
ISSUE 1, VERSION A**

May 2023

The Croft Shop

Bat Survey Report

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EXECUTIVE SUMMARY

It is proposed to convert a garage to a coffee shop.

BE ECOLOGICAL LTD was commissioned by the client to undertake subsequent activity survey of The Croft following a report produced by the Landmark Practice in February 2023 who stated the building as being of low potential for roosting bats.

Subsequent emergence surveys revealed that the building is not a bat roost.

A European Protected Species Licence will not be required.

1 INTRODUCTION

1.1 Background

BE ECOLOGICAL LTD was commissioned by the client to undertake subsequent activity survey of The Croft following a report produced by the Landmark Practice in February 2023 who stated the building as being of low potential for roosting bats.

This report includes the findings of the aforementioned bat activity surveys undertaken in the appropriate season.

The surveys were undertaken in line with the current guidance on standards for bat surveys (Bat Conservation Trust, 2016¹).

1.2 Site description

Please see The Landmark Practice (february 2023).

¹ *Bat Surveys for Professional Ecologists - Good Practice Guidelines* (Collins, J (Ed). BCT, 2016)

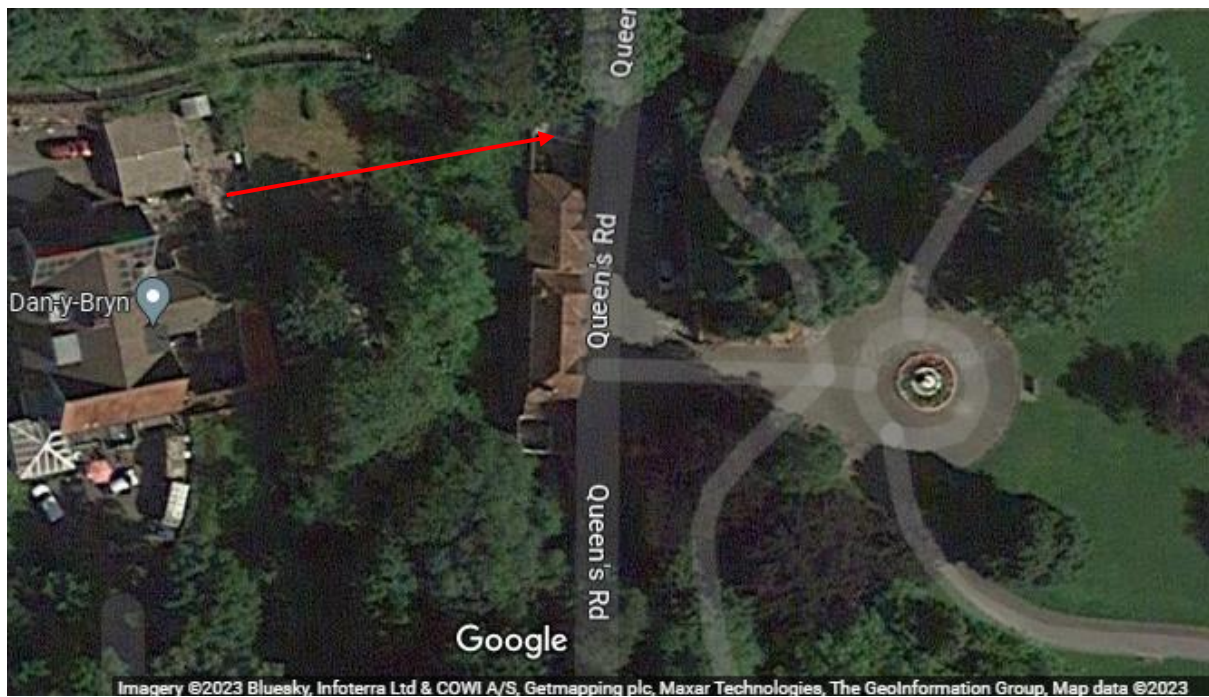


Figure 1: Building to be converted (Google Maps 2023)

It is proposed to convert the garage into a coffee shop.

2 LEGISLATION & POLICIES

2.1 Conservation of Habitats & Species Regulations 2017 (as amended)

The Conservation of Habitats and Species Regulations 2017 (as amended) provides safeguards for European Protected Species (those listed under Annex IV Habitats Directive). With regards to bats, this makes it an offence to:

- Deliberately (or recklessly in Scotland) capture, injure or kill a bat
- Deliberately (or recklessly in Scotland) disturb a bat in a way that would (significantly in Scotland) affect its ability to survive, breed or rear young (or hibernate or migrate in England, Wales and Northern Ireland) or (significantly in England, Wales and Scotland) affect the local distribution or abundance of the species.
- Damage or destroy a roost (this is an 'absolute' offence)
- Possess, control, transport, sell, exchange or offer for sale/exchange any live or dead bat or any part of a bat

2.2 Wildlife & Countryside Act 1981

The Wildlife & Countryside Act 1981 (as amended) is the legislation for England and Wales for nature conservation, making it an offence to:

- Intentionally or recklessly disturb a bat at a roost
- Intentionally or recklessly obstruct access to a roost

2.3 The Environment (Wales) Act 2016

The Environment (Wales) Act 2016 requires that all public authorities, when carrying out their functions in Wales, seek to "maintain and enhance biodiversity" where it is within the proper exercise of their functions. In doing so, public authorities must also seek to "promote the resilience of ecosystems". This ensures that biodiversity is an integral part of the decisions that public authorities take in relation to Wales. It also links biodiversity with the long term health and functioning of our ecosystems, therefore helping to align the biodiversity duty with the framework for sustainable natural resource management provided in the Act. In Wales, this legislation replaces and enhances the Natural Environment and Rural Communities Act (2006) which sought to raise the profile of biodiversity and to make sure that it is considered in all local authority decisions by ensuring that "Every public authority must, in exercising its functions, have regard, so far as is consistent with the proper exercise of those functions, to the purpose of conserving biodiversity.". Other elements of NERC 2006 may still apply.

3 METHODOLOGY

3.1 Survey Objectives

- To carry out recommended activity surveys
- To present the above details and if necessary recommendations for mitigation, future research and compensation within this report.

3.2 Survey Summary

The bat survey comprised of one part

- Part 1- single activity survey

3.3 Surveyor Information

The survey was run by Beth Evans. Beth is the owner of BE ECOLOGICAL LTD and has a postgraduate degree in Environmental Biology: Conservation & Resource Management, specialising in British bats. Beth has nearly 12 years' experience of ecological surveys, both in a small scale and large multi-disciplinary context. Beth also holds Natural Resources Wales and Natural England bat licences to disturb and handle bats.

Beth Evans was assisted during the activity surveys by Dion Rowles. Dion Rowles has been undertaking bat surveys with BE Ecological Ltd for the last two seasons and is working towards his bat licence.

3.4 Internal & External Inspection

An initial inspection survey was carried out in February 2023 by The Landmark Practice (Landmark Practice, 2023). Please see the report for further detail.

In summary, the building was identified as being of low potential for roosting bats and a single emergence survey was recommended.

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3.5 Activity Surveys (emergence/re-entry surveys)

Building 'emergence' and 're-entry' surveys were carried out on the following dates, times and weather conditions. Climatic conditions including rain, wind, temperature and cloud cover were recorded for each survey using a hand held Kestrel 4500 weather station.

3.5.1 Survey 1- 14th May 2023

A dusk survey was carried out on 14th May 2023 using surveyors positioned in such a way that as much of the building was visible to surveyors as possible. Surveyors were equipped with Batlogger M detectors and IR camera.

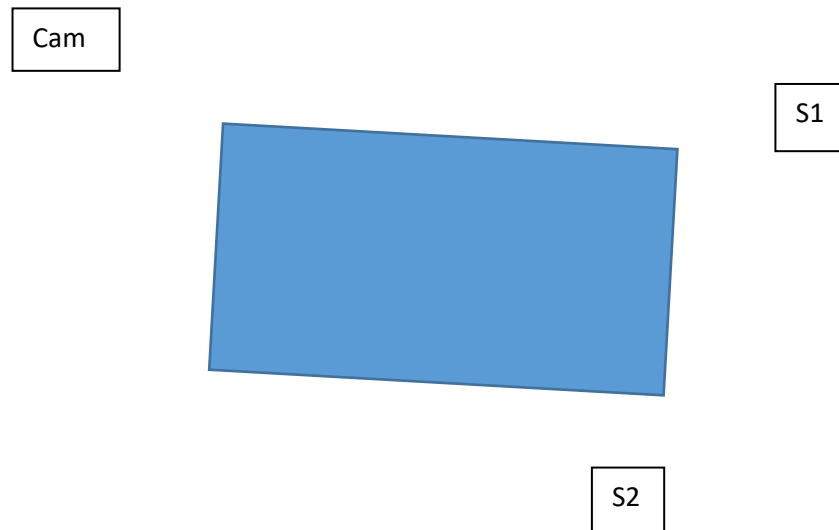


Figure 3: Approximate surveyor locations

4 RESULTS

4.1 Inspection survey

4.1.1 External survey results

Please see The Landmark Practice report for the results of the initial inspection survey (The Landmark Practice, 2023)

4.1.2 Internal survey results

Please see The Landmark Practice report for the results of the initial inspection survey (The Landmark Practice, 2023)

4.2 Activity surveys

The surveys were undertaken as per the table below:

4.3 Survey Schedule and Weather Conditions

Table 1: Schedule and weather conditions

Visit	Date (sunrise) (sunset)	Start End	Time	Temp C	Wind	Cloud Cover	Notes
Survey 1 14/05/23	20:57	Start	20:38	14	Low	30%	Dry evening, insects flying
		End	22:35	14	Low	15%	

4.4 Activity Survey Results

4.4.1 Survey 1- 14th May 2023

Species heard on site include common pipistrelle and soprano pipistrelle only. The first bat heard was a common pipistrelle bat, heard at approximately 15 minutes post sunrise. The bat was seen flying high over head from west to east. A number of pipistrelles (approximately 10) were observed commuting along the same route. It is likely that there is a roost further west that flies high above the property to get to Thomastown Park.

Other than the bats flying ahead, the only bats that were seen were those commuting along the tree line of Thomastown Park to the east and one or two pipistrelles that commuted along the dark lane immediately adjacent to the buildings northern elevation.

None of the bats interacted with the building in any way and no bats emerged from the building on this date.

4.4.2 Survey 1

The property was not identified as a bat roost on this date.

Conclusion

Generally bat activity at the site is moderate with mainly two species heard throughout the surveys, common and soprano pipistrelle. Small numbers of noctule and myotis bats were heard. There appears to be a commuting route from the west to east high above the building. The route is high and the development of the building will not interfere with this in any way.

The property was identified as a bat roost.

A licence from Natural Resources Wales will not be required prior to any works being undertaken on the building.

5 INTERPRETATION & IMPACT ASSESSMENT

5.1 Active Season Usage

It is considered that the property is not a bat roost

5.2 Hibernation Season Usage

It is possible that bats will use the property over winter, however this is considered unlikely due to the structure of the building and due to the fact the property has not been identified as a roost.

5.3 Ecological Impacts of development

The impacts of the development have been assessed using the current information of the proposed works. Should any changes be made to the proposed works, the assessment will need to be reviewed and amended as necessary.

The property has not been identified as a bat roost and it is considered unlikely that there will be any impacts on roosting bats.

6 ENHANCEMENT

6.1 Bats

A Schwegler 2F or 1FF Schwegler Bat Box or a suitable equivalent will be installed on The adjacent building to the garage (The Croft) on the southern or eastern elevation. The box will be installed at least 3m from the ground.

6.2 Birds

A Schwegler 2GR, 1B Schwegler Nest Box or a suitable equivalent will be installed on the western elevation of The Croft. The box will be installed at least 3m from ground level.

7 RECOMMENDATIONS

7.1.1 Timing

It is considered that the property is not a bat roost, therefore restrictions on timings are not required.

7.1.2 Timber/roofing materials

N/A the property is not a bat roost.

7.1.3 Lighting

Newly created access points and bat boxes will not be directly illuminated. All external lighting will face downwards and be set on timers to ensure that bats can use the area should they wish. – In addition to this, any onsite lighting will conform to the following guidelines:

<https://theilp.org.uk/publication/guidance-note-8-bats-and-artificial-lighting/>

Flight paths to the bat boxes and the newly created bat mitigation will be kept dark at all times.

7.1.4 Bat Licensing

A European Protected Species Licence obtained from Natural Resources Wales will not be required before any works commence.

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8 REFERENCES

Bat Conservation Trust. (2016) *Bat Surveys - Good Practice Guidelines*. Bat Conservation Trust, London.

Mitchell-Jones, A.J. & McLeish, A.P. (2004) *The bat workers' manual (3rd Edition)*. Joint Nature Conservation Committee.

Mitchell-Jones, A.J. (2004). *Bat Mitigation Guidelines*. Natural England

The Conservation of Habitats and Species Regulations 2017 (as amended) (HMSO).

The Natural Environment and Rural Communities Act (2006) (as amended) (HMSO).

The Wildlife and Countryside Act 1981 (as amended) (HMSO).