SUNDERLAND PEACOCK ARCHITECTS

BAT SURVEY AT -
HIGHER GAZEGILL FARM
RIMINGTON

DATE AND TIME OF VISIT
18th June 2019 10.00 am

.

WEATHER CONDITIONS

Partly cloudy with sunny spells 15mph south westerly breeze 14 C

REFERENCE NO. 5237

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SURVEY CARRIED OUT BY: LYNNE RUSHWORTH AssocRICS

UK BAT ECOLOGY

- It is thought that there are 18 native species of bats in the UK, most of which have seen declines in numbers over the last century.
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- As insect feeding species the preferred habitats include woodland, grassland, agricultural land, wetland and rivers which provide good foraging potential.
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- Bats typically roost close to foraging sites and use linear features such as hedgerows, tree lines and rivers to navigate. It is important to maintain these features, as removal is thought to contribute to the decline in numbers.

- Bats will roost in a wide variety of sites and built structures, including underground structures (caves , bridges) and trees . Types of roost and times of year used.

  Hibernacula - November to March
  Temporary roosts - March to April and August to October
  Maternity roosts – May to August
  Summer roosts – Used by Males and immature females
  Mating roosts – September and October

- Disturbance to a Hibernacula or Maternity roost is the most damaging for any local bat population. The same Maternity roosts are typically used year after year commencing between May to early June and are colonised with mature females and their young, any disturbance can lead to abandonment of the young and loss of the roost will have a significant impact on the bat population.
  Hibernacula roosts typically consist of underground sites caves, cellars etc or buildings which maintain cool and fairly constant temperatures. Bats hibernate (deep sleep , torpor) to survive the winter months when insects are in short supply so they hibernate to conserve energy and survive on their fat stores. Any disturbance which wakes the bats can result in unnecessary use of the energy reserves and thus reduces the chance of survival over the winter months.

THIS SURVEY HAS BEEN CARRIED OUT BY: LYNNE RUSHWORTH WHO HAS COMPLETED THE BAT CONSERVATION TRUST'S 'BATS AND BAT SURVEYS' FOUNDATION COURSE FOR CONSULTANTS, AND 'PLANNING AND PREPARATION OF BAT SURVEYS' COURSE

EMERGENCE SURVEYS ARE CARRIED OUT WITH A SECOND SURVEYOR WITH ELEVEN YEARS EXPERIENCE OF ASSISTING ON EMERGENCE SURVEYS

THE BRIEF

In conjunction with the submission of an application for planning approval, this survey was commissioned to identify if bats are currently present in the building, to assess if it has been used in the past or if there is any potential for future use of the building.

All British bats and their roosts are legally protected under the Wildlife and Countryside Act 1981 (as amended) and the Conservation of Habitats and Species Regulations 2010, the Countryside and Rights of Way Act 2000 and the Natural Environment and Rural Communities Act 2006

BAT LEGISLATION - Summary of offences under the law:

Bats and the Law Wildlife and Countryside Act 1981,

Principally those relating to powers and penalties, have been amended by the Countryside and Rights of Way Act 2000 (CRoW Act). The CRoW Act only applies to England and Wales.

Section 9(1) It is an offence for any person to intentionally kill, injure or take any wild bat.

Section 9(4)(a) It is an offence to intentionally or recklessly* damage, destroy or obstruct access to any place that a wild bat uses for shelter or protection. (*Added by the CRoW Act in England and Wales only) This is taken to mean all bat roosts whether bats are present or not.

Section 9(4)(b) It is an offence to intentionally or recklessly* disturb any wild bat while it is occupying a structure or place that it uses for shelter or protection. (*Added by the CRoW Act in England and Wales only)

The Conservation (Natural Habitats, &c.) Regulations 1994

Section 39(1)

It is an offence to

(a) Deliberately to capture or kill any bat

(b) Deliberately to disturb any bat

(c) Damage or destroy a breeding site or resting place of any bat. The difference between this legislation and the Wildlife and Countryside Act 1981 is the use of the word 'deliberately' rather than 'intentionally'. Also disturbance of bats can be anywhere, not just at a roost. Damage or destruction of a bat roost does not require the offence to be intentional or deliberate.

Countryside and Rights of Way (CRoW) Act (2000) Part III Nature conservation and wildlife protection 74 Conservation of biological diversity

(1) It is the duty of (a) any Minister of the Crown (within the meaning of the Ministers of the [1975 c. 26.] Crown Act 1975), (b) any Government department, and (c) the National Assembly for Wales, in carrying out his or its functions, to have regard, so far as is consistent with the proper exercise of those functions, to the purpose of conserving biological diversity in accordance with the Convention.

The Natural Environment and Rural Communities Act (2006) PART 3, (40): Duty to conserve biodiversity

(1) 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.

(2) Conserving biodiversity includes, in relation to a living organism or type of habitat, restoring or enhancing a population or habitat.

If it is discovered that development may impact upon bat roosts (thus leading to an offence being committed) a mitigation plan should be devised and a Bat Mitigation Licence applied for from the relevant government department (i.e. Natural England). Gaining a licence will depend on many variables, such as the bat species present, roost type, roost size and its local/regional/national importance

LIMITATIONS OF REPORT

NOTE: The absence of bats is near impossible to prove. The bats' high mobility means it is virtually impossible to rule out bats using any type of structure for roosting or habitat for foraging or on a flight path.

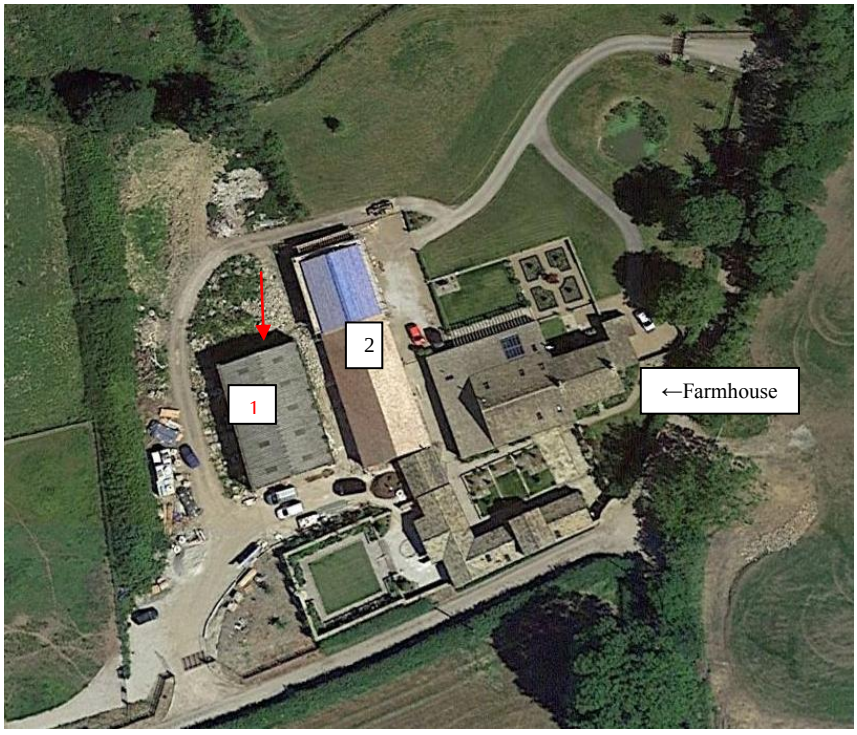
- External walls and internal rooms inspected from ground level.
- Roof spaces, attics and lofts will only be inspected if safe access is possible.
- Winter surveys will provide limited results. However internal inspection should determine if bats have used the building in the previous year.
- Any building whose structure is considered dangerous can only be inspected from a safe distance.
  Crevice- roosting bats ie. Pipistrelles, some Myotis species and Brown long eared bats can remain unseen even after close inspection in small spaces ie. cavity walls, roof structures soffits or cladding.
- Bat roosting evidence ie. Droppings or insect remains can be removed by weather conditions or sweeping/ cleaning internally so this lack of evidence cannot always prove undoubtedly that bats are absent.

EQUIPMENT USED ON SURVEY

- 'MAGENTA 5' BAT DETECTOR
- BINOCULARS
- HIGH POWERED TORCH
- LADDERS FOR HIGH LEVEL INSPECTION
- CAMERA
- ENDOSCOPE

PROPOSED DEVELOPMENT

It is proposed to demolish the outbuilding no1 which is located adjacent to and within the yard area of the farmhouse and barn no 2 which has been recently converted to form a swimming pool / leisure area and garaging demolition of barn 1 prior to construction of new single storey stable block.
Impact of development in relation to potential bat habitat:-
Removal of building structure.



TYPE OF BUILDING

The building is located within the farmyard curtilage and together with barn 2 are the most recent structures in the farmyard, possibly dating from the 60's or the 70's. It has been used as storage for the plant and materials used on the adjacent development. It is a concrete portal barn currently used for storage.

Concrete portal building front and side

Rear gable elevation

METHODOLOGY

The survey methodology follows the guidelines published in the Bat Conservation Trust
(BCT- Bat surveys, good practice guidelines 2nd Edition)
Scoping survey ; (Non invasive) carried out by one surveyor to assess if the site has any potential value for protected species and determine if bats are currently or have historically used the building.
Emergence survey ; are conducted 20 minutes before sunset and up to two hours after. Emergence surveys are conducted between the months of April through to end of September (weather dependant).
October to April (winter months) bats are inactive during the hibernation period.
All surveyors used have many years experience in conducting bat emergence surveys

CONSTRAINTS

No constraints on this survey, it was carried out during the activity period. All parts of the structure clearly visible.

AIMS OF THE SURVEY

To ensure the proposed development will not affect any protected species
The survey will ; Identify past ,current or potential use of the site by protected species.
Assess any impact of the proposed development on these species
Outline a mitigation scheme for any species affected by the development (if required)

LOCATION SD: 822 463 elev 136m

The farmhouse and outbuildings are located at the junction of Trash lane, Cross hill lane and Dancer lane, surrounded by relatively small acreage pasture land and remote from any other properties.
The A682 Gisburn road is approx 700m to the east .

FORAGING POTENTIAL IN THE LOCATION

There is a dense hedge and trees running down cross hill lane which is within 5m of the farmhouse gable. The surrounding fields are large acreage with the majority of the boundaries being lined with trees and hedges. A stream runs adjacent to Cross hill lane and Howgill beck is 80m to the south both being tree lined. The locality provides a moderate to high bat foraging potential.

WALL CONSTRUCTION

Barn 1 with corrugated fibre cement sheet walls and cast concrete base walls, concrete portal frame.

BAT ACCESS POINTS IN WALLS

The building has fee access into the interior as the south gable is open. There is also a section of sheet missing at high level in the north gable. The sheets and the concrete do not provide any cracks or crevices suitable as bat habitat.

ROOF CONSTRUCTION

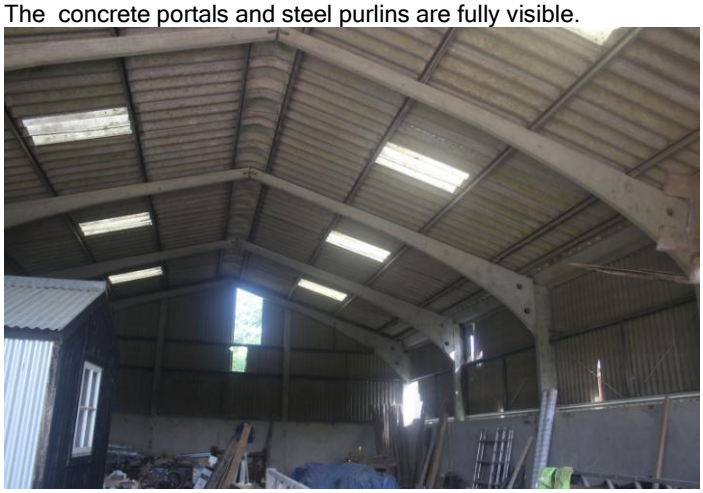
Pitched roof with corrugated fibre cement sheet roof covering with some clear plastic roof lights. Fibre cement concealed gutters at the eaves and fascia detail to the verge on the gables.

BAT ACCESS POINTS IN ROOF

The sheeting on the roof is tight fitting and does not provide any potential habitat for bats.

ROOF SPACE

There is no enclosed roof space it is open to the underside of the roof structure.
The concrete portals and steel purlins are fully visible.



		Yes	No
BAT SIGNS, EXTERNAL	SEEN		X
	DROPPINGS		X
MAGENTA BAT5 DETECTOR RESULT			X

An examination of the exterior of the building was carried out to assess the potential habitat and to determine if signs of droppings, urine stains and grease or scratch marks were in evidence. No signs were found. Externally the buildings do not provide any potential roost habitat.

		Yes	No
BAT SIGNS, INTERNAL	SIGHTED		X
	DROPPINGS		X
	DETECTOR RESULTS		X
	STAINING/GREASE MARKS		X
	SUSPECT SUMMER ROOST		X
	SUSPECT WINTER HIBERNACULA		X
	INSECT OR MOTH FEEDING EVIDENCE		X

The building has a concrete floor which was inspected for droppings or insect remains, the result was negative however the building is in everyday use for storage of machinery and building materials for the current building project being carried out. All the interiors provide sub optimal roosting potential being generally cold and draughty spaces with no structural elements providing any suitable habitat.

CONCLUSION

The building is open to the elements, the structure of this building provides no potential habitat for bats. This type of outbuilding typically provides sub optimal roosting opportunities for hibernating bats, maternity roosts and summer roosts. The accessibility of the building does provide foraging potential however the locality has optimal foraging habitat and optimal roost potential. The demolition of this building will not be detrimental or cause any harm to the local bat population.

Mitigation is not required but it is recommended that to further enhance the roost habitat in this location min 2no Kent bat boxes be fixed to the south gable at high level min 3m above grd level.
See details below.

The Kent bat box

Simple to construct, self-cleaning and low maintenance.

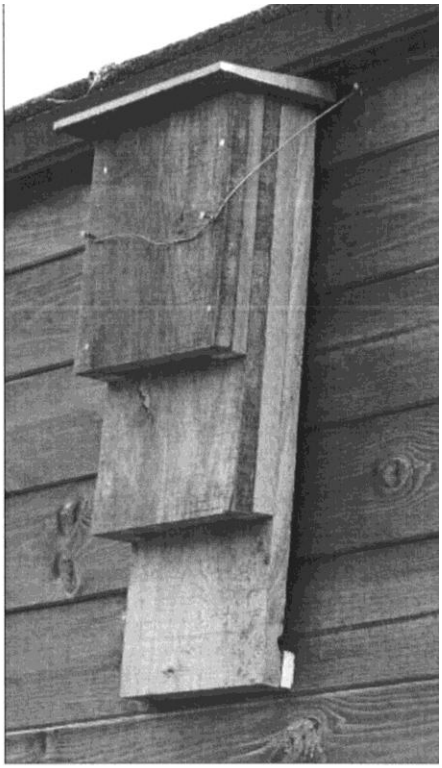
The only critical measurement is the width of the crevices—these should be no larger than suggested. Other measurements are approximate.

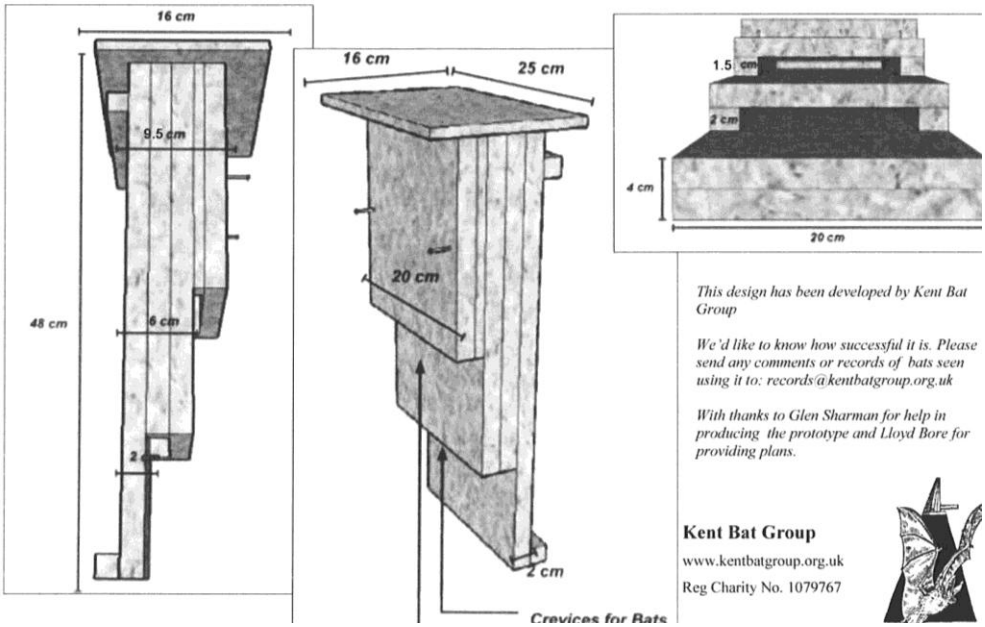
Materials and construction

Box to be made from untreated rough-sawn timbers
Timber should be c,20mm thick
The box should be rainproof and draught-free
Crevices can be between 15 and 25 mm wide
Fixing may be by use of brackets, durable bands or wires

Location

Boxes are best fixed as high as possible in a sheltered wind-free position, exposed to the sun for part of the day.
They can be fitted to walls, other flat surfaces or trees
A clear flight line to the entrance is important





All contractors should be made aware of their responsibilities to protected species and work should proceed with due diligence and in the unlikely event that any bats are discovered work must be stopped immediately and a licensed bat worker must be contacted for advice on how to proceed

RISK ASSESSMENT
(The level of probability that bats are using the property is calculated on the evidence found.)

LOW

NOTES:
The precautions below should be incorporated in the unlikely event that any bats are found to be present in the intervening time between surveys and work commencing on site.
When bats are found to be present in a building:

- A NATURAL ENGLAND licence will be required before any building work is undertaken.
- Pointing work should not be undertaken during winter months as hibernating bats might be entombed.
- Work to roof structure should not be undertaken between late May, June, July and August.
- Small areas of wall could be left un -pointed to encourage potential roosting sites.
- Care must be taken when removing existing roof timbers, and any new timbers or treatment of existing timbers must be carried out using chemicals listed as safe for bat roosts.
- NOTE: The onus lies with the applicant to satisfy themselves that no offence will be committed if the development goes ahead.

If bats are ever found during building work, stop work immediately and contact the Bat Conservation Trust or Natural England.

The Bat Conservation Trust
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8 Battersea Park Road
London SW8 4BG
0845 1300 228

Natural England Cheshire-Lancashire Team
Cheshire-Lancashire Team
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