Preliminary Roost Assessment 62 St Clements Road

Maria Zelenskaya Project number A104 Version 02 17 August 2023



Report Summary

We were instructed by Maria Zelenskaya to undertake a Preliminary Roost Assessment of 62 St Clements Road, Chorleywood, Hertfordshire, WD3 5JT, (Ordnance Survey (OS) grid TQ02679555).

The Site comprises a detached bungalow of block and brick construction with a hipped, cross-ridge roof. The roof is tiled with an internal paper liner. The loft void is high (approx. 3.5m to ridge) and of wooden truss construction. There is an adjoining garage with no loft void and three small flat roof sections.

The proposals are to demolish the existing property and construct a new property in its place.

The survey found that there are potential roosting features within the Site. These include the cavity between the roof tiles and liner which could be accessed via gaps formed by slipped and missing tiles.

No direct observations of bats were made, but it is not uncommon for there to be no visible signs of bats when they roost in locations like these. Further surveys have therefore been recommended in line with good practice to confirm whether bats roost in these features or other features at the Site, and if they do to inform the best approach to mitigation, compensation, and licencing.

To provide enhancement within the scheme (in line with planning policy) bird, bat, and bee boxes have been recommended.

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This report outlines the results of a Preliminary Roost Assessment undertaken by Andy Swan on 17 April 2023 at 62 St Clements Road, Chorleywood, Hertfordshire, WD3 5JT (called the Site from here on).

A Preliminary Roost Assessment (PRA) is an assessment of a structure for its potential value to bats, specifically when they are roosting (resting in a shelter). The aims of the survey and report are to:

1) Identify and assess Potential Roosting Features (PRF) at the Site

Different species of bat have different preferences for roosts. Some tend to roost in open spaces such as lofts, but many roost in crevices on the outside or inside of structures such as frost cracks in trees, timber joints in barns, or between roof tiles and roof membranes in houses.

2) Identify if there is direct evidence of bats roosting in the structure

This could be observed bats, faeces, or feeding remains. However, not all bat roosts have obvious signs of use, especially those in crevices on the outside of structures.

3) Assess the potential value of the structure to bats

A combination of direct signs of bats and PRF is used to assess the potential conservation value of the structure for bats.

4) If necessary, advise on further work to be undertaken

If the Site is assessed as having potential value to roosting bats, additional surveys may be needed to inform the best approach to mitigation, compensation, and licencing. Enhancement measures are usually included in line with planning policy.

5) Identify nesting birds

As it is a requirement of local planning authorities, the survey and report also aim to identify nesting birds, and to discuss mitigation, compensation and enhancement for these.

A full method statement is included in Appendix 2.

Limitations

The survey was undertaken in the April when bats are typically in transition between hibernation and summer roosts. Bats may therefore not be occupying their summer roosts and evidence of bats that may have accumulated on the outside of the building in summer may have been washed away by rain.

Any ecology assessment must be considered as a 'snapshot' of conditions at the time of the survey. Ecological constraints will change over time and therefore the findings of this report are valid for a period of one year, after which the report should be reviewed to assess whether the survey should be updated.

No constraints were such that they affect the overall conclusions and recommendations made in this report.

2 Results

To provide context to the Site, it is useful to consider the surrounding landscape and habitats. It is also important to identify and acknowledge protected wildlife habitats, such as Nature Reserves that are nearby.

Habitats in the region

The Site is in the Chilterns National Character Area (NCA). The Chilterns NCA is an area of extensively wooded and farmed landscape which is underlain by chalk bedrock that rises up from the London Basin to create a north-west facing escarpment looking over the adjacent vales. The countryside within the Chilterns is a patch work of mixed agriculture and woodland.

There is one granted European protected species licences for bats within the search area. This includes common pipistrelle, soprano pipistrelle and brown long-eared bat.

There is one designated wildlife area within 1 km of the Site, Chorleywood Common Local Nature reserve.

Designation / Location	Ecological Feature		
Local Nature Reserves			
Chorleywood Common	Acid heathland, neutral grassland and chalk meadow, together with a series of ponds supporting rare plants and amphibians and secondary woodland.		
Sites of Special Scientific Interest			
None	n/a		
Special Areas of Conservation			
None n/a			
Special Protection Areas			
None n/a			
Ramsar Sites			
None	n/a		

Table 1- Designated Areas

Habitats in the area around the Site

Habitats within 500 m of the Site include (in approximate order of area):

- Residential Properties and associated gardens
- Common land
- Pasture

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- Allotments
- Woodland
- scrub

Figure 1, an aerial photograph of the Site, shows the Site in context with the surrounding landscape. The yellow circle has a 500 m radius.

Figure 1 – Site Location



The habitats in the area are suitable for foraging and commuting bats.

Habitats at the Site

The Site comprises a detached bungalow of block and brick construction with a hipped, cross-ridge roof. The roof is tiled with an internal paper liner. The loft void is high (approx. 3.5m to ridge) and of wooden truss construction. There is an adjoining garage with no loft void and three small flat roof sections.

Photos taken during the survey and detailed survey results are in Appendix 3.

Bats

The roof tiles are generally tight and well fitting, however there are some potential bat roost features. These include:

- Slipped and missing tiles at the roof rake which may provide access to the cavity between the roof tiles and the internal liner.
- Gaps under lead flashing surrounding the chimney.

- Cavity wall
- Gaps under tiles at roof hips
- Gaps behind gutter board.

The loft space is uncluttered and suitable for void roosting species of bat, however no evidence of bats was recorded in the loft and the presence of bats roosting in the loft itself is highly unlikely.

No bat droppings were recorded, but it is common for crevice roosting bats to leave no visible signs of their presence.

The building has been assessed as of 'low potential value' to roosting bats as it meets the following criteria:

A structure with one or more potential roost sites that could be used by individual bats opportunistically.

However, these potential roost sites do not provide enough space, shelter, protection, appropriate conditions and/or suitable surrounding habitat to be used on a regular basis or by larger numbers of bats (i.e. unlikely be suitable for maternity or hibernation).

Birds

No evidence of nesting birds was recorded but the possibility of birds nesting at the Site in future cannot be entirely ruled out.

3 **Discussion**

Project Proposals

The proposals are to demolish the existing property and construct a new property in its place.

Project Impacts and Constraints

Bats and their roosts (even when not occupied) are legally protected from disturbance and harm. Active bird nests are protected from damage and some species are protected from disturbance¹.

Bats

If bat roosts are present, they would be impacted by the demolition works. Bats could be harmed, and their roost destroyed.

Further Surveys

As there are Potential Roosting Features which could not be confidently scoped out as bat roosts, and these will be affected by the works, nocturnal surveys are recommended to complete an assessment of the likely ecological impacts of the project. The surveys should be designed following current best practice²³ and include high-quality night vision cameras paired with recording ultrasonic bat detectors, operated by trained and experienced surveyors.

In order to be confident in the results, the minimum effort (according to guidelines) should be a single bat roost survey completed between May and August.

The survey will aim to confirm whether there are bat roosts at the property and to identify the roosts' size, type and the species involved. In some circumstances where a roost has been identified the survey effort may need to be increased to characterise the roost if insufficient data has been gathered to determine what mitigation is appropriate.

¹This is a very broad generalisation – see Appendix 1 for more information. This report is not legal advice and should not be relied upon as such – for detailed interpretation of the law a specialist lawyer should be consulted.

² Collins, J. (ed.) (2016) *Bat Surveys for Professional Ecologists: Good Practice Guidelines* (3rd edn). The Bat Conservation Trust, London. NOTE – these are likely to be updated to the 4th edition in 2023. The scope of evening surveys is likely to be increased.

³ Bat Conservation Trust (May 2022) Interim Guidance Note: Use of night vision aids for bat emergence surveys on dawn surveys

A suggested survey set up is shown in Appendix 3, with locations for observation points to cover all aspects of the building.

Mitigation and Compensation

If the recommended surveys demonstrate that bats are not roosting in the building, there are no further constraints relating to bats.

If bats are roosting in the building the mitigation hierarchy should be followed. This is the process of identifying viable ways to mitigate or compensate for impacts:

Avoidance

This first stage is to avoid harm to biodiversity, for example by locating to an alternative site. It is the most important stage and can ease the consent process, whereas missing this stage can lead to criticism, objections, and refusal of planning permission. However, for small projects with limited land available, avoidance of effects may not be possible whilst delivering the projects' goals.

Minimisation

If avoiding all adverse effects is not possible, action is taken to minimise these effects. This can be achieved, for example, by modifying the proposed layout, construction method, or altering the project timing to avoid sensitive periods.

Compensation

Addressing residual adverse effects is the final stage, considered after all possibilities of avoiding and minimising the effects have been implemented. Compensation does not prevent the effects but provides measures to offset harm that cannot be prevented. This might include providing alternative roosting features in a different location.

Licencing

If the effects of the project after applying mitigation measures may cause an offence (e.g. disturbance of bats, or damage to their roosts) then a Natural England development licence is likely to be required to allow the project to be completed lawfully. This might be either a project licence, or for certain small impacts, a class licence held by a registered ecologist.

Any such licence would be accompanied by a Method Statement (see Appendix 1 for more details on licencing) this would set out the mitigation and/or compensation measures required. The details of the Method Statement would depend on the results of the nocturnal surveys but are likely to include some or all of the following:

• Supervision of works around roost areas by an ecologist,

- Capture or exclusion of bats,
- Sensitive timing of works (for example to avoid the period when dependant young are present if a breeding roost is found),
- Provision of alternative roosting locations within the completed scheme,
- Retention of roost locations on completion of the project.

Birds

Birds could nest around the missing and slipped roof tiles at the roof rake and at other locations; if works are undertaken during the main breeding season (which is generally taken to run from March to August inclusive) care should be taken to avoid damaging or destroying active birds' nests.

Ecological Enhancement and Opportunities

Under the National Planning Policy Framework and the 25-year environmental plan the government has set out policies and aims to deliver a net gain in biodiversity through improved green infrastructure and increased opportunities for wildlife.

To satisfy the local authority that this development will contribute to these aims, enhancement measures should be incorporated into the proposal. These measures should go beyond those required for mitigation and compensation.

For enhancement of the proposed development, it is recommended that roosting and nesting habitat for bats, birds, and bees is provided by incorporating wildlife boxes into the scheme.

At least one bat box, one 'universal' bird box, and one bee brick should be integrated into the façade of the proposed new building.

- Bat boxes should be installed at a minimum height of 4 m and should be south or east facing.
- Bird boxes should be installed out of direct sunlight or else shaded day long beneath broad eaves. They should be 5 m or more above ground (or as high as possible if 5 m cannot be achieved). They should not be obstructed by nearby trees, cables, creepers, or aerials.
- Bee bricks should be positioned in a warm sunny spot, south facing, with no vegetation in front of the fascia. Ideally placed at least 1 m from the ground with no upward limit.

Examples of wildlife boxes are presented in Appendix 4.

Conclusion and Summary

The survey found that there are potential roosting features within the Site. These include the cavity between the roof tiles and liner which could be accessed via gaps formed by slipped and missing tiles.

No direct observations of bats were made, but it is not uncommon for there to be no visible signs of bats when they roost in locations like these. Further surveys have therefore been recommended in line with good practice to confirm whether bats roost in these features or other features at the Site, and if they do to inform the best approach to mitigation, compensation, and licencing.

To provide enhancement within the scheme (in line with planning policy) bird, bat, and bee boxes have been recommended.

Appendix 1 Legislation and Policy

Legislation

There are many active pieces of legislation which are aimed at protecting wildlife and habitats within the UK. These are summarised in Table 2.

Table 2 - Summary of Primary Legislation in the UK

Legislation	Description
The Wildlife and Countryside Act (WCA) 1981	The WCA is the primary piece of legislation relating to nature conservation in Great Britain. The Act is supplemented by provisions in the CRoW Act 2000 and the NERC Act 2006. It provides for the notification and confirmation of Sites of Special Scientific Interest by Natural England. It also sets out, in schedules, important and invasive species which are legally protected or require active management.
	The WCA consolidates and amends existing national legislation to implement the Convention on the Conservation of European Wildlife and Natural Habitats (Bern Convention) and Council Directive 79/409/EEC on the conservation of wild birds (Birds Directive) in Great Britain (NB Council Directive 79/409/EEC has now been replaced by Directive 2009/147/EC of the European Parliament and of the Council of 30 November 2009 on the conservation of wild birds (codified version)).
The Conservation of Habitats and Species Regulations 2017	The Conservation of Habitats and Species Regulations 2017 consolidate the Conservation of Habitats and Species Regulations 2010 with subsequent amendments. The Regulations transpose Council Directive 92/43/EEC, on the conservation of natural habitats and of wild fauna and flora (EC Habitats Directive), into national law. They also transpose elements of the EU Wild Birds Directive in England and Wales. The Regulations came into force on 30th November 2017 and extend to England and Wales (including the adjacent territorial sea) and to a limited extent in Scotland (reserved matters) and Northern Ireland (excepted matters).
The Countryside and Rights of Way (CRoW) Act 2000	The CRoW applies to England and Wales only, received Royal Assent on 30 November 2000, with the provisions it contains being brought into force in incremental steps over subsequent years. Containing five Parts and 16 Schedules, the Act provides for public access on foot to certain types of land, amends the law relating to public rights of way, increases measures for the management and protection for Sites of Special Scientific Interest (SSSI) and strengthens wildlife enforcement legislation, and provides for better management of Areas of Outstanding Natural Beauty (AONB). The Act is compliant with the provisions of the European Convention on Human Rights, requiring consultation where the rights of the individual may be affected by these measures.
Natural Environment & Rural	The NERC places a duty on authorities to have due regard for biodiversity and nature conservation during their operations.
Communities (NERC) Act 2006	The NERC Act requires the Secretary of State to publish a list of habitats and species which are of principal importance for the conservation of biodiversity in England. The list replaces the UK Biodiversity Action Pans (UKBAP) and has been drawn up in consultation with Natural England, as required by the Act.
	The S41 list is used to guide decision-makers such as public bodies, including local and regional authorities, in implementing their duty under section 40 of NERC Act, to

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have regard to the conservation of biodiversity in England, when carrying out their normal functions.

Fifty-six habitats of principal importance (HPI) are included on the S41 list. These are all the habitats in England that were identified as requiring action in the UK Biodiversity Action Plan (UK BAP) and continue to be regarded as conservation priorities in the subsequent UK Post-2010 Biodiversity Framework. Of most relevance to the Site, they include ponds, open mosaic habitats on previously developed land and lowland heathland.

There are 943 species of principal importance (SPI) included on the S41 list. These are the species found in England which were identified as requiring action under the UK BAP and which continue to be regarded as conservation priorities under the UK Post-2010 Biodiversity Framework.

Protected Species

Bats

All species of bat in Britain are 'European Protected Species' (EPS) and are protected under the Conservation of Habitats and Species Regulations 2010, and the Wildlife and Countryside Act 1981, as amended by the Countryside & Rights of Way Act 2000. These pieces of legislation combine to give substantial protection to EPS and their habitats, making it an offence to:

- Deliberately capture, injure, or kill a bat.
- Intentionally or recklessly disturb a bat in its roost or deliberately disturb a group of bats.
- Damage or destroy a bat roosting place (even if bats are not occupying the roost at the time).
- Possess or advertise/sell/exchange a bat (dead or alive) or any part of a bat.
- Intentionally or recklessly obstruct access to a bat roost.

The Natural Environment & Rural Communities (NERC) Act 2006 places a duty on authorities to have due regard for biodiversity and nature conservation during their operations.

Nesting Birds

All wild bird nests are protected under The Wildlife and Countryside Act 1981 (as amended), making it an offence to:

- Intentionally kill, injure, or take any wild bird or their eggs or nests (with certain exceptions).
- Disturb any bird species listed under Schedule 1 to the Act, or its dependent young while it is nesting.

www.bat-surveyor.co.uk www.ecology-surveyor.co.uk • Nests of golden eagle, white-tailed eagle and osprey are protected year-round.

Bird Directive

Bird Directive Annex I lists species that shall be the subject of special conservation measures concerning their habitat to ensure their survival and reproduction in their area of distribution.

European Protected Species Licencing

The animal and plant species listed on Schedule 2 and 4 of The Conservation of Habitats and Species Regulations 2010 (as amended) are referred to as European Protected Species (EPS).

If a project is likely to impact a EPS and breach the Conservation of Habitats and Species Regulations 2010, and where best practice guidance avoidance measures either cannot be followed or are not applicable, licences can be obtained to allow persons to carry out activities that would otherwise be prohibited, without committing an offence. Natural England has powers to grant such licences in England if it meets three "derogation tests".

The three tests are that:

- The activity to be licensed must be for imperative reasons of overriding public interest⁴ or for public health and safety ('public' can in some circumstances be interpreted as an individual or family).
- There must be no satisfactory alternative.
- Favourable conservation status of the species must be maintained.

There are two licencing routes available (depending on the location of the project). A Project Licence, where the developer would apply for a licence for their project and be the licensee, or a Class Licence, where a consultant is registered to use the licence and can use it for low impact activities and notify Natural England, rather than make an individual application for the project.

Low Impact Class Licence

The bat 'low impact' licence is a mitigation class licence. A consultant who is registered to use this licence can register a site and carry out certain activities that would otherwise be unlawful:

⁴ This is usually arguable where the project meets an identified planning need, i.e. social housing. 'Public' can be interpreted as an individual or family.

- to disturb and capture up to three 'common or widespread' bat species (which are those listed in each annex)
- to damage or destroy up to three 'low conservation status roosts' (these are: feeding, day, night and transitional roosts)
- if the action has a low or temporary impact on bats or their roosts
- if sites are registered before you start work

Registration of a site under the licence is straightforward and Natural England accept registration from 3 days. Projects entered into a class licence have the same survey requirements as a project licence.

The Annexes define what are common or widespread species based on geographical area and experience of the consultant. In the counties that I work, Class Licences are available to damage and destroy no more than three low conservation status roosts. Of these roosts, you can disturb and capture, in appropriate small numbers, no more than three common species of:

- common pipistrelle
- soprano pipistrelle
- brown long-eared
- whiskered
- Brandt's
- Daubenton's
- Natterer's

Project Licence

The licence application consists of three documents, Section one - Application details (a basic application form), Section two - Method Statement (MS) (specifying the proposals, mitigation, compensation, and schedule and demonstrating how the project meets Test 3) and Section three - Reasoned Statement (RS) (demonstrating how the project meets Tests 1 and 2). The Application form and Method Statement i usually completed by your ecologist (who is included in the application as a Named Ecologist) and the Reasoned Statement by the client or their planning consultant or environmental lawyer.

The developer is usually the applicant and licensee and is legally responsible to carrying out the method statement. To protect other people working on the project (and to legally tie them to the MS) contractors and consultants that may affect the EPS, such as demolition or construction contractors and the ecologist should be appointed as 'accredited agents' to the licence by the licensee.

Natural England aim to determine an application within 30 working days, at which point they make a Further Information Request (FIR) if there are uncertainties, or they do not agree with the MS or RS. At the end of the licensable activities the licensee is

www.bat-surveyor.co.uk www.ecology-surveyor.co.uk required to submit a licence return (although this is usually completed on their behalf by the Named Ecologist), where they declare the success (or failure) of the mitigation and are obliged to report on breaches to the MS.

Policy

National Planning Policy Framework (NPPF) (2018)

Chapter 15 of the National Planning Policy Framework (NPPF) aims at conserving and enhancing the natural environment and states that planning policies and decision should contribute to and enhance the natural and local environment. In terms of biodiversity this should be achieved by:

- protecting and enhancing valued landscapes, sites of biodiversity or geological value and soils
- recognising the intrinsic character and beauty of the countryside, and wider benefits from natural capital and ecosystem services.
- minimising impacts on and providing net gains for biodiversity, including by establishing coherent ecological networks that are more resilient to current and future pressures.

The NPPF states that to protect and enhanced biodiversity, [local] plans should:

- identify and safeguard components of wildlife-rich habitats and wider ecological networks.
- promote the conservation and enhancement of priority habitats and ecological networks and the protection and recovery of priority species.

The NPPF states that when determining planning applications, local planning authorities should refuse applications which:

- cause significant harm to biodiversity which cannot be avoided, adequately mitigated or as a last resort, compensated for.
- plan to develop on land within or outside of a Site of Special Scientific Interest (SSSI) and which is likely to have an adverse effect on it (either individually or in combination with other developments).
- result in the loss or deterioration of irreplaceable habitats (such as ancient woodland and ancient or veteran trees) unless there are wholly exceptional reasons and where a suitable compensation strategy exists.

The local planning authority should support developments whose primary objective is to conserve or enhance biodiversity, especially where this can secure measurable net gains in biodiversity.

HM Government – 25 Year Environment Plan

The 25-year plan to improve the environment sets out what the government intends to do to increase biodiversity, reduce climate change and secure ecosystem services. It aims to deliver cleaner air and water, protect threatened species, and provide richer wildlife habitats.

Personnel

The survey and reporting were undertaken by Andy Swan MSc BSc (Hons) MCIEEM, a subcontractor to Jo Pedder BSc. hons MCIEEM. The report was reviewed for Issue by Jo Pedder. Andy and Jo have both have over 19 years' experience in the environmental consulting sector. Both hold survey licences for bats (level 2) and great crested newts (level 1) and both have experience in a range of projects from barn conversions to sites over 300 ha and have worked in the minerals, housing, and energy sectors.

Preliminary Roost Assessment

A Preliminary Roost Assessment (PRA) was undertaken on 17 April 2023. The PRA followed the Bat Conservation Trust (BCT) guidelines criteria (see Table Below). This entails inspecting a structure (e.g. a building or tree) for field evidence of roosting bats such as feeding remains, droppings, urine staining and Potential Roosting Features (PRFs) such as voids, cracks and crevices. The survey is undertaken from the ground level (or floor level within buildings).

Any direct evidence, type and number of PRFs and the Site's environment is then used to grade the structure's suitability for bats. The assessment is based on the potential value of a roost in the structure, not the likelihood of a bat roost at the structure. A low suitability structure would, at most, have features that individual bats could roost in opportunistically. Structures with a moderate suitability may support bats regularly but are not likely to include hibernation or maternity roosts. A high suitability structure would have one or more potential roost sites that are obviously suitable for use by larger numbers of bats on a more regular basis.

Suitability	Description of Roosting Habitats	Commuting and Foraging Habitats
Negligible	Negligible habitat features on site likely to be used roosting bats.	Negligible habitat features on site likely to be used by commuting or foraging bats.
Low	roost sites that could be used by individual bats opportunistically. However, these potential roost sites do not provide enough space, shelter, protection, appropriate conditions and/or suitable surrounding habitat to be used on a regular basis or by larger numbers of	Habitat that could be used by small numbers of commuting bats such as a gappy hedgerow or un-vegetated stream, but isolated, i.e. not very well connected to the surrounding landscape by another habitat. Suitable, but isolated habitat that could be used by small numbers of foraging bats such as a lone tree (not in a parkland situation) or a patch of scrub.

BCT Roost Assessment Criteria

	features seen with only very limited roosting potential.	
Moderate	potential roost sites that could be used by bats due to their size, shelter, protection, conditions, and surrounding habitat, but	Continuous habitat connected with the wider landscape that could be used by bats for commuting such as lines of trees and scrub or linked back gardens. Habitat that is connected to the wider landscape that could be used by bats for foraging such as trees, scrub, grassland, or water.
High	potential roost sites that are obviously suitable for use by larger numbers of bats on a more regular basis and potentially for	Continuous, high-quality habitat that is well connected to the wider landscape that is likely to be used regularly by commuting bats such as river valleys, streams, hedgerows, lines of trees and woodland edge. High-quality habitat that is well connected to the wider landscape that is likely to be used regularly by foraging bats such as broadleaved woodland, tree-lined watercourses, and grazed parkland. Site is close to and connected to known roosts.

Desk Study

Given the limited scale of the proposals and limited potential for impacts to arise outside the Site, a full data search was not commissioned for this stage of the project. Ordnance Survey maps and online aerial photos were used to provide site context and the online Multi-Agency Geographical Information Centre6 (MAGIC) was used to find any internationally and nationally statutory protected areas within 1 km of the Site.

⁶www.magic.go.uk (Accessed 17 April 2023)

⁵ With respect to roost type only - the assessments in this table are made irrespective of species conservation status, which is established after presence is confirmed.

Appendix 3 Results

Date: 17 April 2023

Surveyor: Andy Swan

Location: 62 St Clements Road, Chorleywood, Hertfordshire, WD3 5JT

Grid Reference: TQ02679555

Site Description: The Site comprises a detached bungalow of block and brick construction with a hipped, cross-ridge roof. The roof is tiled with an internal paper liner. The loft void is high (approx. 3.5m to ridge) and of wooden truss construction. There is an adjoining garage with no loft void and three small flat roof sections.

Bats

The roof tiles are generally tight and well fitting, however there are some potential bat roost features. These include:

- Slipped and missing tiles at the roof rake which may provide access to the cavity between the roof tiles and the internal liner.
- Gaps under lead flashing surrounding the chimney.
- Cavity wall
- Gaps under tiles at roof hips
- Gaps behind gutter board.

The loft space is uncluttered and suitable for void roosting species of bat, however no evidence of bats was recorded in the loft and the presence of bats roosting in the loft itself is highly unlikely.

No bat droppings were recorded, but it is common for crevice roosting bats to leave no visible signs of their presence.

Birds

No evidence of nesting birds was recorded.

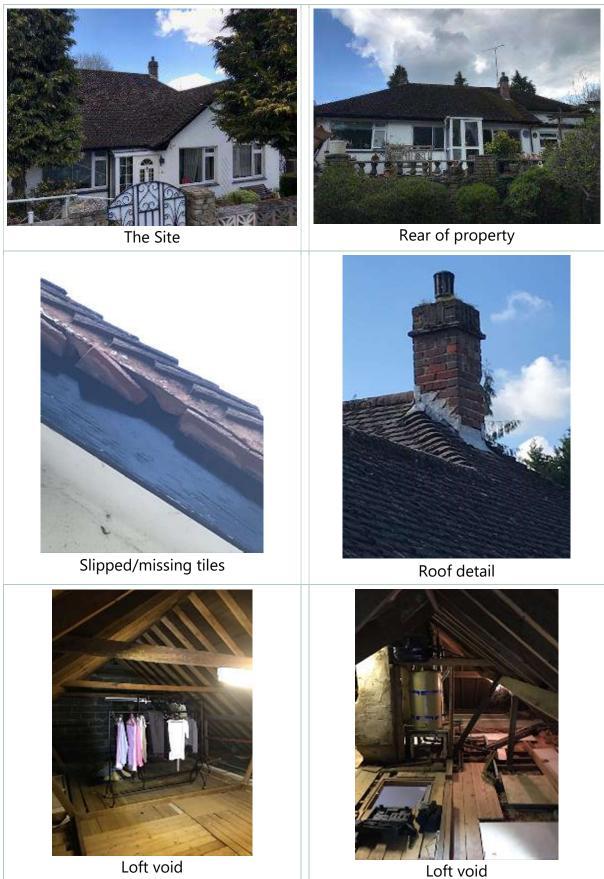
Suggested Phase 2 Survey Setup



To undertake roost surveys at this Site, three vantage points (VP) are suggested to cover all potential roosting features at the property. Vantage Points may be covered by surveyors and / or night vision aids⁷, assuming that best practice guidelines are followed. The surveyors view may be improved by minimal pruning of trees at the front of the property.

⁷ NVA must be high-quality cameras with additional IR lighting, paired with recording bat detectors, and operated by trained and experienced surveyors. Depending on the situation and the limitations of the equipment, one operator could potentially cover more than one VP using cameras.

Survey Photos



Loft void

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Appendix 4 Enhancement Examples

Schwegler Bat Tube

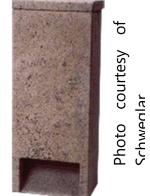
The 1FR Bat Tube is designed to be installed on the external walls of buildings, either flush or beneath a rendered surface. can also be painted to match your building with airpermeable paint if desired.

Comprised of Woodcrete with an integrated wooden panel.

Dimensions: 200mm wide x 470mm high x 120 mm deep

Entrance Dimensions: 150 x 90 x 20 mm

Weight: Approximately 9.8 kg



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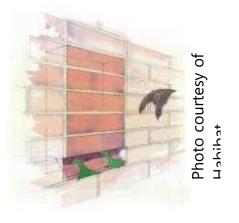
Habibat Integrated Bat Box

These boxes can be built into the walls of new buildings to create purpose-built crevices for bats.

- Facing products include:
- Brick
- Stone
- Granite
- Masonry
- Slate
- Terracotta
- Tile
- Timber

Dimensions: 215 mm wide x 440 mm high x 102 mm deep

Weight: Approximately 7 kg



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CJ Wildlife Swift Nest Box B

Installed on or within a wall.

Dimensions: 16 x 18.5 x 33.5cm

Weight: 7kg

Woodstone



Photo courtesy of CJ Wildlife

Swift boxes are a 'universal' bird box as they are known to support all four of the red listed urban bird species (swift, house sparrow, starling & house martin) will readily take to swift bricks,

Green and Blue Bee Brick

Bee Brick[™] is solid at the back and has moulded cavities where the bees will lay their eggs, sealing the entrance with mud or chewed up vegetation. Offspring emerge in the Spring and begin the process of nesting again, repeating the cycle.

Dimensions: 215 mm x 105 mm x 65 mm

Weight: 2.9 kg



Photo courtesy of Green and Blue

Document Control

Report Issue	Notes	Author	Date
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