

**BAT EMERGENCE SURVEY
REPORT**

**at
46 Henry Street
Manchester
Greater Manchester
M4 5DD**

**Client:
Mere Development Group**

**Client Address:
651A Mauldeth Rd West
Chorlton
Manchester
M21 7SA**

**JCA Ref:
20401a/AWe**

**Date of Report:
06/06/2023**



Quality Assurance

Version	Desktop Survey Completed:		Site Surveyed:		Report Completed:		Reviewed:	
	Date	Name	Date	Name	Date	Name	Date	Name
Planning	09/03/23	Eve Goodwin	31/05/23	Adam West (lead surveyor) James Foster	06/06/23	Adam West	07/06/23	James Foster

This report has been prepared and provided in accordance with the *British Standard 42020: Biodiversity – Code of practice for planning and development 2018* and the *CIEEM's Code of Professional Conduct*.

Risk Assessment Completed	
Bio-security Procedure Completed	
Lone Worker Procedure Completed	

Summary

JCA Ltd was commissioned by **Mere Development Group** to provide ecological advice to inform works at **46 Henry Street**, hereafter referred to as 'the site'. The site is located at **Manchester, Greater Manchester, M4 5DD**, Ordnance Survey (OS) National Grid Reference **SJ 84813 98641**. The bat scoping survey undertaken on 08/03/23 identified one building with low Bat Roost Potential (BRP) which would be disturbed as part of the proposed development. Further surveys were recommended on the building to determine the presence/likely absence of a roost in this structure.

The purpose of this report is to present the findings of the surveys, an interpretation of the findings and to provide recommendations for undertaking the proposed works in accordance with relevant legislation.

Bats and their roosts are protected under UK law. Development works that are likely to affect bats or their roost sites must be completed under licence from the statutory conservation body, in this case Natural England (NE).

A field survey was undertaken on 31/05/23 to identify any bat use of the building. The surveys found no evidence for bats roosting in the potential roosting features (PRFs) previously identified on the exterior of the building.

An evaluation of the site, likely impacts of the scheme upon bats and recommendations for proceeding with works in compliance with legislation are presented in Chapters 4, 5 and 6 of this report.



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1. Introduction

1.1 Background

- 1.1.1 In February 2023, JCA Ltd was commissioned by **Mere Development Group** to undertake a bat scoping survey of a site located at **46 Henry Street, Manchester, Greater Manchester, M4 5DD** hereafter referred to as 'the site'. The bat scoping survey identified one building on site with bat roost potential that would be disturbed as part of the proposed work.

1.2 Details of Proposed Development

- 1.2.1 The scheme is the development of a new food outlet by means of modification to the existing building including repairs to the south eastern wall, a new façade located on Henry Street, the construction of a stairwell and raising the existing level of the roof.

1.3 Site Location

- 1.3.1 The site is located at Ordnance Survey (OS) National Grid Reference **SJ 84813 98641**, with nearby postcode **M4 5DD**. The site is bordered to the east by a residential block of apartments and in all other directions by commercial properties.

1.4 Scope of Works

- 1.4.1 The following elements of work were included in the bat survey programme:
- Desktop study – a review of historical records of bats in the surrounding area, including the results of recent ecological surveys in the area.
 - Field survey – one dusk emergence survey during the summer to assess whether bats are using the building to roost in.
 - Ecological report – detailing the survey results, implications for the disturbance of the buildings/trees and recommendations.

1.5 Survey and Report Aims



1.5.1 The main aim of the dusk emergence and dawn re-entry bat surveys was to determine the presence/likely absence of roosting bats that will be impacted by the proposed development.

1.5.2 If roosting bats are present, to:

- Identify the species and numbers of bats present.
- Determine the type of roost (e.g. maternity roost, transitional roost, hibernation site, etc).
- Gain sufficient information to allow the potential impacts on bats of the proposed works to be assessed and for appropriate avoidance, mitigation and/or compensation measures to be designed.

1.5.3 The aims of the report presented are to:

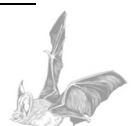
- Outline the legislative protection given to bats.
- Report on the findings of a desk-based study undertaken to identify any existing records for bats which are relevant to the site.
- Summarise the findings of the bat surveys and provide an assessment of the potential ecological constraints to the proposed works at the site.
- Provide recommendations for further survey, avoidance, mitigation and/or enhancement where appropriate.

1.6 Legislative Context

1.6.1 In the UK all species of bat and their roosts are fully protected under Schedule 2 of the Conservation of Habitats and Species (Amendment) (EU Exit) Regulations 2019, with additional protection offered under Schedule 5 of the Wildlife and Countryside (WCA) Act 1981 (as amended). This makes it an offence to:

- Deliberately or recklessly capture, injure or kill a bat;
- Deliberately or recklessly disturb in a way that would affect their local distribution or abundance, or affect their ability to survive, breed or rear young;
- Damage or destroy a bat roost (this is an 'absolute' offence);
- Intentionally or recklessly obstruct access to a bat roost; and/or
- Possess, control, transport, sell, exchange or offer for sale/exchange any live or dead bat or any part of a bat.

- 1.6.2 Under this legislation a roost is determined as any structure or place used for shelter. As bats tend to re-use the same roosts, the roost is protected whether the bats are present at the time or not.
- 1.6.3 Please see Appendix 1 for a more detailed overview of the UK legislation protecting bats.



2. Methodology

2.1 Desktop Study

- 2.1.1 A desktop study was carried out as part of the bat scope undertaken by JCA in March 2023. The local biological records centre, Greater Manchester Local Records Centre (GMLRC), was commissioned to provide details of historical protected and notable species records within a 2km radius of the site.
- 2.1.2 Ordnance Surveys maps (1:25000 scale), MAGIC maps and aerial imagery (Google Earth) were used to assess habitat availability and connectivity in the wider area around the site.

2.2 Field Surveys

- 2.2.1 The field survey was planned and conducted with reference to Bat Surveys: Good Practice Guidelines 3rd Edition (Collins, 2016). The survey was conducted in May 2023.
- 2.2.2 The surveys were led by Adam West (Principal Ecologist, JCA Ltd; NE Level 2 bat survey class licence registration number 2016-24724-CLS-CLS) and assisted by James Foster (Assistant Ecologist, JCA Ltd).

2.3 Emergence Surveys

- 2.3.1 Dusk emergence surveys are used to determine the presence or likely absence of bat roosts in buildings or features when the preliminary roost assessment cannot reasonably rule out the presence of roosting bats. They are also used to identify the type of roost where a known roost is present. They can only be completed in the season when bats are most active (May to September, with optimum bat activity between June and August).
- 2.3.2 During the bat scoping survey conducted on 08/05/23 (JCA, 2023) all of the building on site was subject to an internal and external survey to establish the suitability of the structure to support roosting bats in accordance with Collins (2016). Dusk emergence survey effort is dictated by the category of bat roost potential assigned to a structure during the preliminary bat roost potential assessment. **Table 1** (taken from Collins, J. 2016) summarises the survey effort required for structures to give confidence in a negative result.

Table 1 Recommended minimum number of survey visits for presence/likely absence surveys

Low roost suitability	Moderate roost suitability	High roost suitability
One survey visit. One dusk emergence or dawn re-entry survey (structures). No further surveys required (trees).	Two separate survey visits. One dusk emergence and a separate dawn re-entry survey.	Three separate survey visits. At least one dusk emergence and a separate dawn re-entry survey. The third visit could be either dusk or dawn.

2.3.3 JCA assigned the category of **Low** BRP to the building on site.

2.3.4 Dusk emergence surveys commence 15 minutes before sunset and end 1.5 hrs after sunset, depending on activity levels recorded during the survey.

2.3.5 During the survey, bat calls were monitored and recorded using Anabat Scout bat detectors and notes were made on the times of bat calls and any bat activity seen or heard (commuting, foraging, roosting or social calls) to determine the following information:

- Time and species of first and last bat call.
- Location of bats/proximity to the buildings.
- Number and species of bats present (where identification is possible).
- Bat activity levels (foraging, commuting, social calls).
- Number of bats recorded entering/exiting the structures/trees/buildings

2.4 Survey Constraints

2.4.1 The comprehensiveness of any ecological assessment will be limited by the season in which surveys are undertaken. To determine presence or likely absence of a protected species and their status (i.e. the number of individuals present) usually requires multiple visits at suitable times of the year. The survey conditions and timings were suitable for surveying bats and therefore are not considered to be a limitation to the effectiveness of the surveys.

2.4.2 The weather conditions during the survey are given in **Table 2** below:

Table 2 Weather Conditions during the survey.



Date	Sunset time	Start & finish time	Temp - Start and Finish (°C)		Wind speed (mph)	Cloud cover (%)	Precipitation
31/05/23	21:26	21:03-22:56	14	13	2	10	None

2.4.3 The details of this report will remain valid for 18 months. Beyond this period, if the proposed works have not commenced, a new review of the ecological conditions must be undertaken.

3. Results

3.1 Desktop study results

3.1.1 Local Data Centre Records: GMLRC has been commissioned to provide the records held for bat species within a 2km radius of the survey site. The results have been summarised below. It should be noted that the absence of records should not be taken as confirmation bat species are absent from the search area. Please see **Table 3** below for a summary of the bat records from the last ten years obtained from GMLRC. **Table 4** summarises all bat roost records within 2km of the site received from GMLRC.

Table 3 Summary of bat records from the last ten years held by GMLRC within 2km of the site.

Common Name	Scientific Name	On site	Within 500m	500-1000m	1001-2000m	Notes
Noctule	<i>Nyctalus noctula</i>	x	✓	x	x	One record from 2020 of commuting bat.
Unidentified bat of the genus <i>Pipistrellus</i>	<i>Pipistrellus</i> sp.	x	x	x	✓	One record from 2018 of grounded male bat.
Common pipistrelle	<i>Pipistrellus pipistrellus</i>	x	✓	✓	✓	34 records between 2013 and 2020.
Soprano pipistrelle	<i>Pipistrellus pygmaeus</i>	x	x	x	✓	One record from 2019 of injured bat.
Brown long-eared bat	<i>Plecotus auritus</i>	x	x	x	✓	One record from 2013.
Unidentified bat	<i>Vespertilionidae</i>	x	x	x	✓	One record from 2014.

Table 4 Summary of bat roost records held by GMLRC within 2km of the site.

Common Name	Scientific Name	On site	Within 500m	500-1000m	1001-2000m	Notes
Unidentified bat of the genus <i>Myotis</i>	<i>Myotis</i> sp.	x	x	✓	x	One roost recorded in 2015 through an endoscope survey.
Unidentified bat of the genus <i>Pipistrellus</i>	<i>Pipistrellus</i> sp.	x	✓	✓	✓	13 roosts recorded between 2003 and 2016, including one maternity roost with 100 individuals.
Common pipistrelle	<i>Pipistrellus pipistrellus</i>	x	✓	✓	✓	40 roosts recorded between 2006 and 2020 including four within 500m of site.



Soprano pipistrelle	<i>Pipistrellus pygmaeus</i>	x	x	✓	x	One record of multiple roosts within same building from 2013.
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3.2 Field Survey Results

3.2.1 31/05/23 dusk emergence survey – Location 1

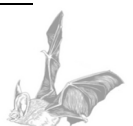
Three bats were detected during the survey. The first detection was made at 22:04, 38 minutes after sunset. One species was identified: common pipistrelle. Commuting behaviour only was recorded. No bats were observed to emerge from the building being surveyed.

3.2.2 31/05/23 dusk emergence survey – Location 2

Three bats were detected during the survey. The first detection was made at 22:04, 38 minutes after sunset. One species was identified: common pipistrelle. Commuting behaviour only was recorded. No bats were observed to emerge from the building being surveyed.

4. Interpretation of Survey Results

- 4.1.1 No bats were observed emerging from the surveyed building. The number of commuting passes recorded during the survey suggests a low activity level in the vicinity of the site.

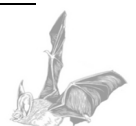


5. Impacts of the Scheme

- 5.1.1 The survey did not record any use of the building by roosting bats and it is considered unlikely that the scheme will result in an offence under relevant legislation (see section 1.5 and Appendix A).
- 5.1.2 The proposed works are not anticipated to have a negative impact on commuting or foraging bats as the site is in a highly urbanised environment, to which the development will not add noise or light disturbance above levels to which local bat populations are already acclimatised.

6. Recommendations

- 6.1.1 In the unlikely event a bat is found within the building on site at any time of year, either prior to or during the scheme, works should cease immediately, and the advice of an appropriately qualified, experienced and licensed ecologist should be sought. As bats and their roosts are protected under UK legislation (see Appendix 1), the work would then need to be completed under the authority of a Natural England (NE) mitigation licence. Mitigation and compensation measures to reduce the impact on bats would be required as conditions of the licence.



7. References

Bat Conservation Trust and Institute of Lighting Professionals (2018) *Guidance Note 08/18: Bats and artificial lighting in the UK*. ILP, Rugby

Collins (2016) *Bat Surveys for Professional Ecologists: Good Practice Guidelines* 3rd edition, Bat Conservation Trust, written 2016

JCA (2023) *Bat Roost Potential Survey Report* (ref 20401/EG)

Mitchell-Jones, A.J. & McLeish, A.P. (2012) *The Bat Workers' Manual*. Pelagic Publishing, Exeter.

Mitchell-Jones, A.J. (2004) *Bat Mitigation Guidelines*. English Nature, Peterborough

Relevant Legislation:

Wildlife and Countryside Act 1981 <http://jncc.defra.gov.uk/page-3614>

The Conservation of Habitats and Species (Amendment) (EU Exit) Regulations 2019.

<https://www.legislation.gov.uk/ukdsi/2019/9780111176573>

Countryside and Rights of Way Act 2000

http://www.legislation.gov.uk/ukpga/2000/37/pdfs/ukpga_20000037_en.pdf?view=interweave

Appendices

Appendix 1: Legislation Pertaining to the Protection of Bats

All bat species have, for some time, been protected under schedule 5 of the Wildlife & Countryside Act 1981. However, the effective protection for bats now comes from Schedule 2 of the Conservation of Habitats and Species Regulations (Amendment) (EU Exit) Regulations 2019, which defines "European protected species of animals". Changes to legislation, and devolution, mean the law is difficult to summarise succinctly across the UK, but the strong legal protection for bats and roosts remains.

It is an offence across the UK to:

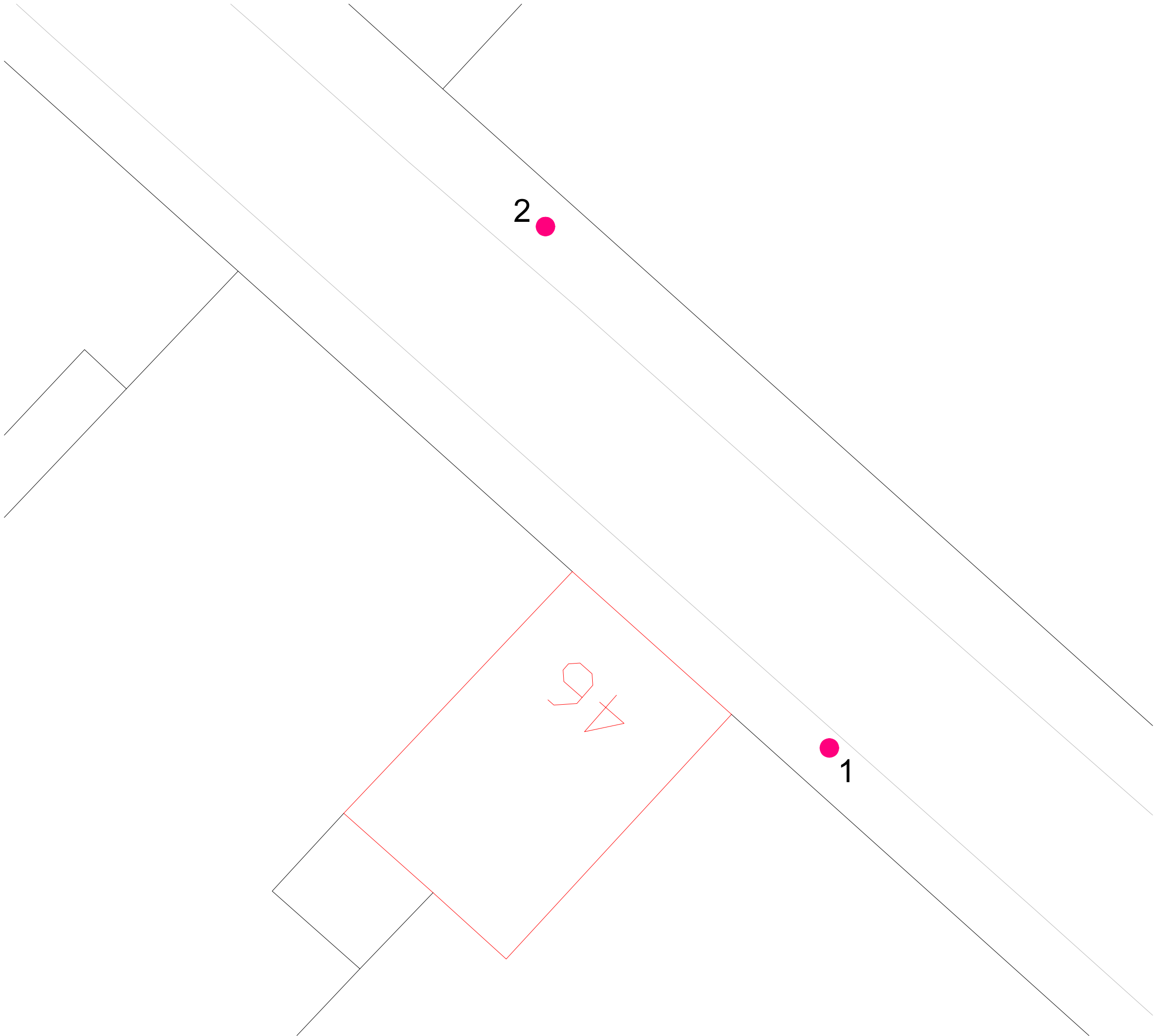
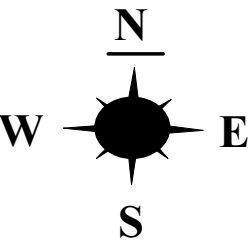
- deliberately or recklessly capture, injure or kill a bat
- deliberately or recklessly disturb in a way that would affect their local distribution or abundance, or affect their ability to survive, breed or rear young
- damage or destroy a bat roost (this is an 'absolute' offence)
- intentionally or recklessly obstruct access to a bat roost
- possess, control, transport, sell, exchange or offer for sale/exchange any live or dead bat or any part of a bat

'Deliberately' in this context may be interpreted as someone who, although not intending to capture/injure or kill a bat, performed the relevant action, being sufficiently informed and aware of the consequence his/her action will most likely have.

In this interpretation, a bat roost is "any structure or place which any wild [bat]...uses for shelter or protection". Because bats tend to reuse the same roosts, legal opinion is that the roost is protected whether or not the bats are present at the time.

Appendix 2: Site Plan and Surveyor Locations





Appendix 2: Surveyor Locations

Address: 46 Henry Street,
Ancoats, Manchester,
M4 5DD
JCA Ref: 20401a/AWe

NOT TO SCALE

KEY	
	Surveyed building
	Surveyor location
	Buildings (not surveyed)

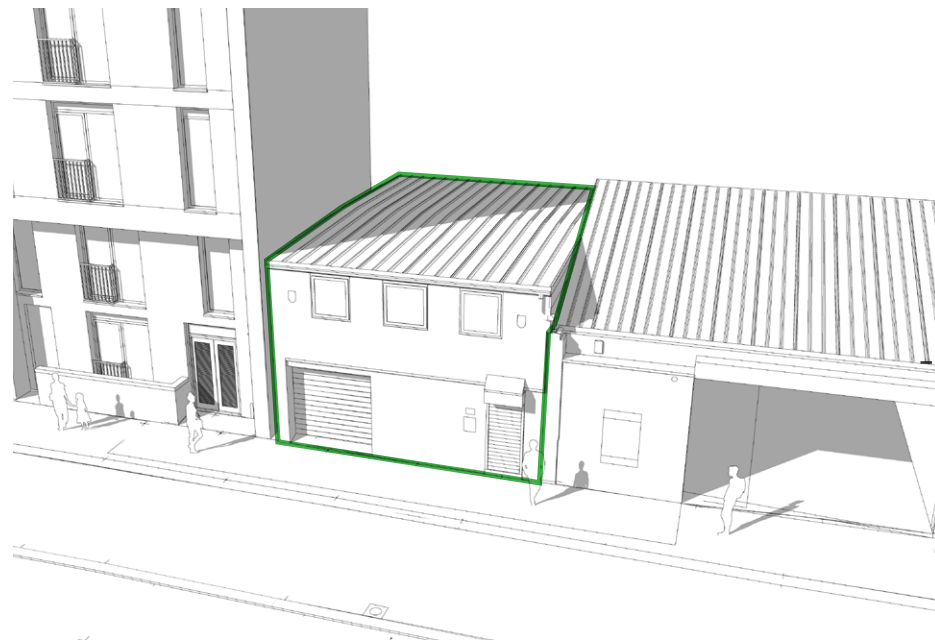


Arboricultural & Ecological Consultants

Appendix 3: Proposed Development Plan

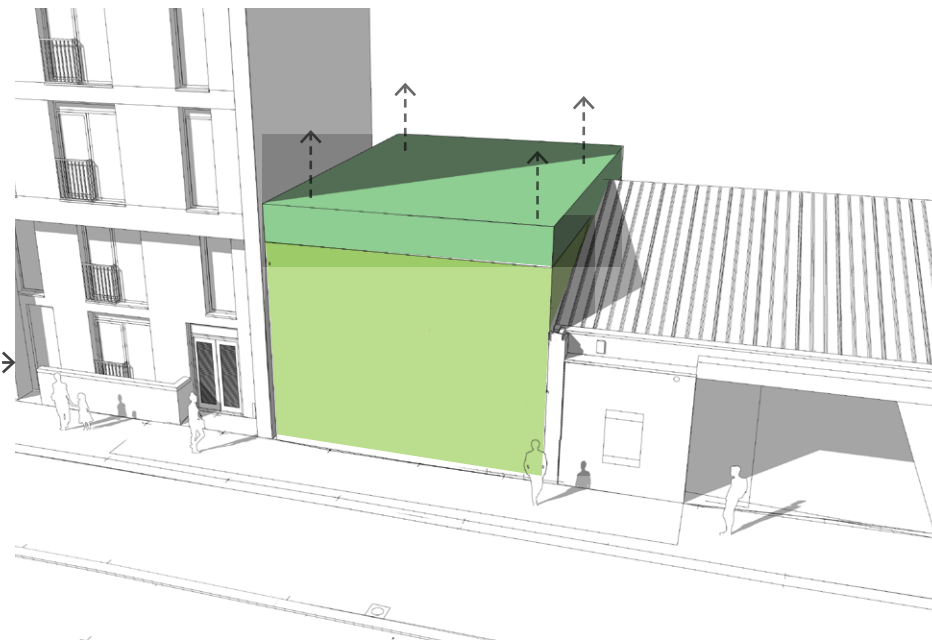


Design Development



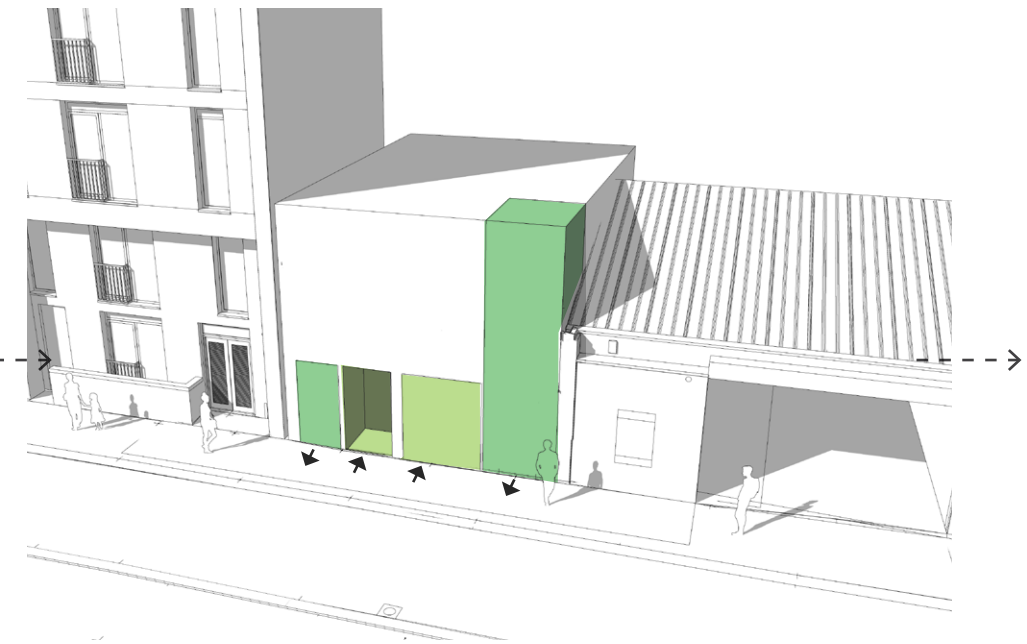
Existing Site

The existing red brick non historical facade with corrugated sheet metal roof.



Mass Replicated with Flat Roof

The mass is replicated, albeit raised slightly as per historical imagery and to improve vertical efficiency of the first floor space. A flat roof is proposed to mimic the original historical massing and to improve energy efficiency as well as room for M&E plant.



Stair, Circulation & Servicing

The site is relatively unique in the respect that it's only accessible elevation is fronting the highway. Therefore bins, takeaway hatch, main entrance and the emergency escape route from the stair all need to be serviced from the one elevation. Refuse collection is situated next to the neighbouring developments bin store for ease, the takeaway hatch is to be recessed to prevent obstruction of the highway by people waiting and the main entrance is situated in the central plan.

Design Development



Extrusion for Separation, Differentiation & Access

As per the concept, the stair core area is extruded to allow for ladder access to the flat roof. This in turn creates the “chimney” mass, the addition creates separation from the neighbouring garage as well as interest within the street scene.

Reflective & Traditional Rhythm

The “chimney feature” is differentiated from the rest of the facade through the use of both contrasting and complementing materials referencing the industrial heritage of the area. The main mass has a shop front to the ground floor as per the majority of units within the area. The first floor references the traditional arched top floor windows of the surrounding warehouses.

Articulation & Branding

The branding and detailing play a big part within the buildings refinement. i.e. the signage and sheet metal panelling to the “chimney” and fenestration detailing to the windows.

Appendix 4: Bat Survey Calendar

Figure 1: Survey timings calendar (taken from BCT: Bat surveys for professional Ecologists, Good Practice Guidelines; 3rd Edition).

Survey type	Month											
	J	F	M	A	M	J	J	A	S	O	N	D
Preliminary ecological appraisal - fieldwork												
Preliminary roost assessment - structures ^a												
Emergence/re-entry survey for maternity or summer roosts ^b												
Emergence/re-entry survey for transitional roosts ^b												
Emergence survey for mating roosts ^b												
Hibernation survey - structures ^a												
Preliminary ground level roost assessment - trees ^d												
Potential roost feature (PRF) inspection survey - trees												
Ground level bat activity survey - transects and automated/static												
Pre-, during and post-hibernation - automated/static bat activity survey												
Swarming survey												
Back-tracking survey												
Trapping survey ^e												
Radio tagging and tracking survey ^e												

= optimal period
 = sub-optimal period

= weather or location dependent (i.e. may not be suitable due to spring and autumn conditions in any one year or in more northerly latitudes). Note that October surveys are not acceptable in Scotland.

^a Not including trees



Appendix 5: Glossary

Activity surveys - are used to assess the level of bat activity at a site. This can be done either by using equipment such as an AnaBat device, or manually walking around a site with a heterodyne detector, documenting the number of bat passes and interceptions.

Dawn surveys - begin around 2 hours before and up to sunrise when bats are returning to their roosts from foraging, and swarming behaviour can be seen close to roost entrances.

Dusk surveys - begin around 30 minutes before sunset and up to 2 hours afterwards. These are done in order to see bats emerging from their roost sites at night.

Echolocation – is a system similar to sonar that allows bats to travel and forage even in total darkness. Bats make a call and then listen to the returning echoes in order to build up a map of their surrounding area. This allows bats to gauge the identity and distance of an object by how long the echo takes to return to them.

Habitat - the ecological or environmental area that is inhabited by a particular species of animal, plant or other type of organism.

Hibernation - is a state of inactivity and metabolic depression characterized by lower body temperature, slower breathing, and lower metabolic rate. Hibernating animals conserve energy, especially during winter when food is short, tapping energy reserves, i.e. body fat, at a slow rate.

Hibernacula - typically consist of underground sites, such as caves and cellars, which remain relatively cold and humid. Bats will hibernate to conserve energy over the winter months when falling temperatures cause a drop in the abundance of insects. These will typically be colonised around November to around March.

Insectivorous – is when an organism feeds exclusively on insects.

Nocturnal - a behaviour characterized by being active during the night and sleeping during the day.

Maternity roosts – colonised around late May early June and consist of mature females and their young. These roosts need to be warm and quiet, and are used up until around August, with females typically leaving first and then the young.

Mating roosts – mating begins around late October to November. Males of most species use special mating calls to attract females. These can include purrs, clicks and buzzing.

Roost – a site where bats live during the day, rear young and hibernate. These can be in man made structures, such as buildings, bridges, tunnels, cellars and mines, or natural features such as mature trees and caves.

Roosts in buildings – many types of buildings will be used by bats. The most likely sites are agricultural buildings (e.g. farmhouses and barns), buildings with exposed wooden beams (greater than 20cm thick), buildings with weather boarding and/or hanging tiles, and buildings close to woodland and/or water.

Roosts in trees – these are typically in mature trees with deep sheltered cracks, under loose sections of bark, or in woodpecker holes.

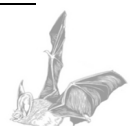
Species – a group of organisms in which all members can interbreed and produce viable offspring.

Summer roosts (non-breeding) - these are generally occupied by groups of males and immature females during the summer, and are usually only occupied for a short period before the group moves to another location.

Swarming – a behaviour exhibited by bats returning to their roost sites at dawn. Bats can be seen repeatedly flying to and from the roost entrance, making it much easier for consultants to identify where roosts are on a building or structure.

Temporary/Transitory roosts – These are used after hibernation (March – April) before mature females disperse to maternity roosts and male/immature females colonise summer (non-breeding) roosts. Similarly, temporary roosts form before hibernation (August -October).

Underground Roosts – these are typically used during the winter and can be mines, caves, tunnels or cellars.



Appendix 6: Author Qualifications

Adam West, Principal Ecologist

BSc (Hons) Animal and Wildlife Management.

Adam joined JCA to lead the expanding ecology department. Having returned to education as a mature student, Adam studied Countryside Management for two years before undertaking a Bachelor's degree in Animal and Wildlife Management, for which he was awarded First Class Honours. Adam has many years' experience in ecological consultancy, working on projects ranging from individual planning applications to national infrastructure projects. Adam holds a Natural England Level 1 great crested newt survey class licence and a Natural England Level 2 bat survey class licence.

James Foster, Assistant Ecologist

BSc (Hons) Biology.

James gained his undergraduate degree in biology in 2012 from University of Leeds. James has plenty of experience in ecology, having worked countless projects of different scales all over the north and midlands. James has 9 years of experience surveying anything from reptiles to hedgerows and holds a Great crested newt licence level 1 and is working towards his bat licence and barn owl licence.

The information and advice which we have prepared and provided is true and has been prepared and provided in accordance with the CIEEM's Code of Professional Conduct. We confirm that the opinions expressed are our true and bona fide opinions.

Signed



.....
Adam West ACIEEM

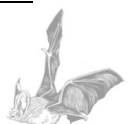
06/06/2023

Reviewed by



.....
James Foster BSc (Hons)

07/06/2023



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ECOLOGICAL SERVICES

Ecological Pre-Planning Services

- Phase 1 Habitat Surveys
- Great Crested Newt eDNA Sampling
- Protected species: Bat, Wintering and Nesting Bird, Badger, Amphibian, Otter, Water Vole, White-Clawed Crayfish, Dormice and Reptile Surveys.
- Preparation for Environmental Impact Assessment (EIA)
- Invasive Species Surveys
- Code for Sustainable Homes
- Butterfly & Insect Surveys

Ecological Post-Planning Services

- Biodiversity Enhancement Plans
- Protected Species Mitigation
- Ecological Management (Bat and Bird box installation and inspection)
- Planting Schemes
- Monitoring of bird or bat boxes.

ARBORICULTURAL SERVICES

Guidance for Architects & Developers

- British Standard 5837 Surveys
- Arboricultural Implications Assessments (AIA)
- Arboricultural Method Statements (AMS)

Advice for Engineers, Loss Adjusters and Insurers

- Tree Surveys for Subsidence
- Heave Assessment
- Tree Root Identification

Advice for Local Authorities and Social Housing

- Tree Safety Surveys
- Specialist Decay Detection
- Landscape and Orchard Design

Tree Advice for the Legal Profession

- Subsidence Litigation
- Personal Injury and Accident Investigation
- Expert Witness, Planning Inquiries and Appeals

Veteran Tree Management

- Ancient Woodland Management
- Veteran Tree Management

Tree Health and Pest and Disease Management

- Pest and Disease Surveys
- Tree Health Checks
- Disease Mitigation and Control



HEAD QUARTERS

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