

Growing Baldock

Environmental Statement Volume 2: Figures & Appendices

Chapter 11: Ecology

Appendix 11.4 Nocturnal Bat Survey Report



LAND TO THE EAST AND SOUTH OF BALDOCK

Nocturnal Bat

BMD.21.0045.RPE-P2.808

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Declaration of compliance with professional code of ethics or conduct

The information which we have prepared and provided is true and has been prepared and provided in accordance with the Chartered Institute of Ecology and Environmental Management's Code of Professional Conduct. We confirm that the opinions expressed are our true and professional bonafide opinions.

All reasonable efforts have been made to comply with current legislation and best practice, including BS 42020:2013, the Environment Act 2021 (Schedule 7A: Biodiversity Gain), the National Planning Policy Framework (2025), CIEEM EcIA Guidelines (2018, updated 2022), and relevant Natural England guidance.

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EXECUTIVE SUMMARY

Client Urban&Civic plc
Consultant Bradley Murphy Design Ltd.

SITE

Location Land to the east and south of Baldock, Hertfordshire
National Grid Reference Approx. centre: TL 25319 34539
Over-view The Site is approximately 219 ha in total however is largely dissected by a railway running east west through the middle of the Site effectively creating a northern and southern portion of the Site. Two small sections of the railway, however, fall within the northern section of the Site, partially connecting it to the southern area at two locations. The northern area comprises approximately 144 ha. The southern area comprises approximately 76 ha. The northern area of the Site is composed of land parcels to the north and south of Bygrave Road/Ashwell Road in Baldock, Hertfordshire, centred at Ordnance Survey National Grid Reference TL 25369 34942. The northern section is bound to the south by the railway, with two small sections of the railway line falling within the Site boundary. It comprises a combination of arable fields and grazed pasture, with a mixture of residential and farm buildings located along Bygrave Road. North and east of the Site is dominated by farmland, with the town of Baldock located to the south-west. To the west, beyond North Road, is Ivel Springs LNR, Blackhorse Farm Meadow LWS and Ivel Springs, Norton Road LWS. The southern section of the Site is located to the east of the town of Baldock in Hertfordshire and is centred at Ordnance Survey National Grid Reference TL 25643 33923. The Site comprises arable fields with occasional boundary hedgerows, with a mixture of residential and farm buildings. It is largely bound by a railway line to the north, the A505 to the south and east with the residential areas of Clothall Common and Baldock to the west.

Landscape context The Site is situated on the eastern extent of the town of Baldock. As such, the Site sits within a transitional landscape, with an agricultural field matrix to the north, and an urbanised area characterised by residential developments with occasional industrial use to the south and southwest.

DEVELOPMENT & PLANNING BACKGROUND

Proposed works Outline planning application with all matters reserved except for means of highway access into the development from the A505/Royston Road, North Road and Clothall Road ;, for up to 3,200 homes, up to 16ha of employment, waste and leisure infrastructure, a mixed use local centre, up to 1 secondary school, up to 2 x primary schools, up to 1 SEND school, health hub, green infrastructure (including parks, formal sports provision, play, habitat areas, informal open space and structural planting), internal street network, access junctions and railway crossing, public transport infrastructure, pedestrian/cycle network (including PRoW diversions, active travel routes, mobility hubs and crossing of the railway), utilities and drainage infrastructure (including diversions of existing and provision of new infrastructure, pumping stations, sustainable drainage, primary substations, rising main/strategic sewer and renewable energy infrastructure), ground remodelling/earthworks and any necessary demolitions.

Planning stage Outline Planning Application

ECOLOGICAL BACKGROUND

General An ecological appraisal was undertaken at the site in 2015 (Ecus, 2016). WYG carried out a suite of breeding bird surveys in 2017 (WYG, 2017a). Subsequently, an ES was prepared and an outline planning permission submitted in January 2018. However, the application was subsequently withdrawn.
In 2019 the ecological appraisal was updated along with a series of species-specific assessments including corn bunting and reptile reports which were produced between 2019-2020. No other ecological assessments are known to have been undertaken in the study area..

Most recent baseline An ecological assessment of the Site was undertaken by BMD during March-July 2022 that refined the scope of Phase 2 surveys required to inform the outline planning application.

A total of 60 buildings were assessed for suitability for roosting bats within the initial PEA assessment. One building was assessed as having high suitability for roosting bats, four buildings were assessed as having moderate suitability and nine buildings were assessed as having low suitability buildings in the initial assessment. All other buildings were assessed as having negligible suitability to support roosting bats.

SURVEY

Objectives 1. To provide further ecological baseline, including nature conservation value, of the Site with a focus on protected and notable species;
2. To guide the initial stages of master planning and indicative mitigation required to ensure net biodiversity gain is achieved and favourable conservation status of species utilising the Site as a result of the proposed development; and
3. To provide specialist advice and make appropriate recommendations to ensure compliance with wildlife law and recognised best practice.

Approach Specific surveys, following current best practice, were undertaken for the following species/species groups:

	• Bats
Date.....	May 2023– September 2023 and May-June 2025
Results	Bats - No bat roosts have been confirmed on Site to date, two trees and 18 buildings have been subject to a nocturnal survey to date (2023 and 2025). Updated building inspections on all buildings were undertaken in April 2025, these showed no material or environmental changes. Due to the low activity from previous surveys undertaken (activity and emergence surveys), as well as no changes environmentally and materialistically a single emergence survey was undertaken on the four buildings with moderate potential and one building with high potential. No bats were recorded emerging on any of the surveys, with activity very low. Bats have been recorded foraging and commuting at the Site with key habitat areas being the peripheries of fields, dark roadways (Bygrave Road), the railway corridor, boundary hedgerows and treelines (in particular northeast adjacent Ivel Springs). Bat species recorded at the Site include common pipistrelle, <i>Plecotus</i> sp., serotine, noctule, leisler, <i>Myotis</i> sp. and <i>Nyctalus</i> sp.
Evaluation/Conclusions.....	The Site supports a range of protected and notable species and as such, appropriate mitigation and compensation will be required to facilitate the Proposed Development.

RECOMMENDATIONS

Appropriate mitigation strategies will be required to ensure protected and notable species are protected from harm during the construction works and that the conservation status of all protected and notable species currently using the Site is maintained post development through habitat creation and enhancement.

Opportunities for enhancement include the use of appropriate native trees and shrubs in the planting schemes, provision of bat roosting features (range of boxes), hedgerow enhancements and replanting, enhancements of degraded woodland and calcareous grassland, management of scrub, creation of hibernacula and refugia and enhancement of grassland areas.

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1. INTRODUCTION

1.1 Background Information

1.1.1 Bradley Murphy Design Ltd. (BMD) was commissioned by Urban&Civic plc in March 2022 to undertake an Ecological Assessment of their site: Land to the east and south of Baldock, Hertfordshire —hereafter referred to as ‘the Site’. The Site is approximately centred on national grid reference: TL25319 34539. A plan depicting the Site’s location is provided in the Appendix.

1.1.2 Species specific surveys which have been undertaken at the Site are detailed in section 2.

1.1.3 This report presents the approach, results and evaluation of assessments and surveys undertaken at the Site to provide the species-specific ecological baseline. The data will:

- Further guide the detailed master planning to ensure that favourable conservation status of the species/species groups assessed (where confirmed on Site) is at least maintained and, where appropriate, enhanced through the design and mitigation hierarchy (avoid, mitigate, compensate);
- Further inform the detailed planning applications and level of mitigation required to ensure, as a result of the proposed development:
 - o Current European and domestic wildlife legislation is not breached.
 - o Favourable conservation status of protected and notable species at the Site.

1.2 Proposed Development

1.2.1 Outline planning application with all matters reserved except for means of highway access into the development from the A505/Royston Road, North Road and Clothall Road :, for up to 3,200 homes, up to 16ha of employment, waste and leisure infrastructure, a mixed use local centre, up to 1 secondary school, up to 2 x primary schools, up to 1 SEND school, health hub, green infrastructure (including parks, formal sports provision, play, habitat areas, informal open space and structural planting), internal street network, access junctions and railway crossing, public transport infrastructure, pedestrian/cycle network (including PRow diversions, active travel routes, mobility hubs and crossing of the railway), utilities and drainage infrastructure (including diversions of existing and provision of new infrastructure, pumping stations, sustainable drainage, primary substations, rising main/strategic sewer and renewable energy infrastructure), ground remodelling/earthworks and any necessary demolitions.

1.3 Site Context

Historic Context

1.3.1 Readily available historic aerial imagery and maps indicate that the Site has largely remained in its current state of arable land with the surrounding landscape largely being used for agricultural purposes since at least the late 18th century. The surrounding landscape has also remained largely unchanged from its 19th century landscape character, except for localised urban expansion of inhabited areas surrounding the Site; most notably the town of Baldock and city of Letchworth to the southwest, the town of Stotfold to the northwest. The surrounding habitats have

also seen changes with the removal of woodland parcels for further agricultural land occurring throughout the 19th century.

Present Context

- 1.3.2 The Site is approximately 219 ha in total however is largely dissected by a railway running east west through the middle of the Site effectively creating a northern and southern portion of the Site. The northern area comprises approximately 144 ha. The southern area comprises approximately 76 ha.
- 1.3.3 The northern area of the Site is located within the north of Hertfordshire, approximately 7.6 km north of the borough of Stevenage, at the north-eastern extent of the market town of Baldock. The Site is dissected by the Cambridge Train Line which splits the Site into a northern and southern area. Two small sections of the railway line, however, fall within the northern section of the Site, partially connecting to the southern area of the Site.
- 1.3.4 The train line running through the centre of the Site borders the northern area of the Site to the south, with two small sections of the railway line falling within the northern section of the Site; North Road to the west and chiefly agricultural land to the north and east. Several residential avenues, pathways, gardens and homes are also present within the vicinity of the Site boundaries, particularly along the southwest border of the Site.
- 1.3.5 The Bygrave Road runs southwest-northeast within the centre of the northern area of the Site, dividing arable farmland. Multiple footpaths run within the north Site's boundaries, connecting to North Road, Bygrave Road and multiple residential pathways. There are also some urban features within the Site, such as the roundabout connecting the B656 and A505 to the northeast of the Site. The surrounding landscape, with the exception of the town of Baldock to the southwest, has a commensurate character to that within the Site: agricultural land, chiefly arable, interspersed by residential pockets, roads and hedgerows. The residential areas surrounding the Site are all primarily associated to the town of Baldock situated to the southwest of the Site and the village of Bygrave approximately 1 km northeast of the Site.
- 1.3.6 In the southern area of the Site the A505 (Royston Road) borders the Site from the south to the northeast; the Cambridge Train Line to the north; Wallington Road to the west and the Ashville Trading estate at the northwest border—several residential avenues, gardens and homes are also present within the vicinity of the Site boundaries.
- 1.3.7 The A507 (Clothall Road) runs southwest-southeast along the southern section of the Site, dividing arable farmland within the Site. Multiple footpaths run within the southern areas' boundaries, connecting to the B656, Wallington Road and multiple residential areas. There are also some urban features within the Site, such as the roundabout connecting the B656 and A505 to the northeast of the southern area. The surrounding landscape, with the exception of the town of Baldock to the southwest, has a commensurate character to that within the Site: agricultural land, chiefly arable, interspersed by residential pockets, roads and hedgerows. The residential areas surrounding the Site are all primarily associated with the town of Baldock situated to the southwest of the Site and the village of Bygrave approximately 1.3km northeast of the Site.

- 1.3.8 Considering the outlined above contextual features regarding the Site and its surrounding landscape, while there is some overland connectivity of the Site to its adjacent habitats, particularly from the north, the presence of multiple dispersal barriers within the vicinity, including highways and rail lines, is deemed to leave dispersal capacity of terrestrial fauna to/from the Site as moderate. It is further estimated that more mobile, such as bats, birds, and insects, would be more readily able to commute to the Site from surrounding habitats.

1.4 Ecological Context

- 1.4.1 An ecological appraisal was undertaken at the Site in 2015 (Ecus, 2016), which included a badger survey, great crested newt assessment and reptile survey. The principal habitats recorded were arable, improved grassland, hedgerows, scattered trees, scrub, semi-improved grassland, tall ruderal, amenity grassland, buildings and hardstanding. The survey identified the potential for the following protected species/species groups: great crested newt, badger, bats, breeding birds, common reptiles.
- 1.4.2 WYG carried out a suite of breeding bird surveys in 2017 (WYG, 2017a). The Site was found to support a population of corn bunting considered to be of County importance. Other farmland birds were also recorded and this assemblage was also considered to be of County level importance. Subsequently, an ES was prepared and an outline planning permission submitted in January 2018. However, the application was subsequently withdrawn.
- 1.4.3 In 2019 the ecological appraisal was updated along with a series of species-specific assessments including corn bunting and reptile reports which were produced between 2019-2020. These reports are as follows:
- Baldock North - Updated Ecological Appraisal (2019a);
 - Baldock Southeast - Updated Ecological Appraisal (2019b);
 - Baldock Reptile Survey Report (2019c);
 - Baldock Southeast - Bat Activity Report (2020a);
 - Baldock North – Bat Activity Report (2020b); and
 - Baldock North and Southeast - Corn Bunting Report (2020c);
 - Baldock Mitigation Sites – 2019 Corn Bunting Survey Report (2020d).
- 1.4.4 The most recent baseline was undertaken by BMD in March and July 2022. The details of this assessment are presented in BMD.21.0045.RPE/P1.801.A.-.Ecology and has informed this further survey report. Further Surveys were conducted as part of the Phase II surveys in 2023. The details of this are presented in the Phase II Report (ref: BMD.21.0045.RPE-P2.804.A)

Roosts and species overview

- 1.4.5 The initial bat assessment of the Site identified a number of features that could be used by bats for roosting. Different species of bat have different roosting preferences; Table 1.1 provides a summary of bats that have potential to occur in the location of the Site and the roost locations they are typically associated with.

Table 1.1 Summary of roosting preferences of bat species that have potential to occur on Site based on their geographical range and desk study completed (adapted from Collins, 2023).

Bat species	Summer roosts				Winter roosts			
	Trees	House/ buildings	Barn-type buildings	Bat boxes	Caves/ mines	Buildings	Walls/ cavity	Trees
Brown-long-eared								
Barbastelle								
Common/ soprano pipistrelle								
Leisler's								
Noctule								
Nathusius' pipistrelle								
Serotine								
Notes		Primary locations						
		Secondary locations, i.e. only sometimes found in such locations						

1.5 Compliance with National Policy and Legislation

- 1.5.1 A summary of national planning policy and wildlife legislation relating to development projects and bats in England is provided in Appendix A. The protocols, evaluations and recommendations contained within this report were made in accordance with these policies and legislation.

2. APPROACH

2.1 Introduction

2.1.1 This report has been produced with reference to current guidelines for ecological assessments (e.g. CIEEM, 2020 and 2020a) although adapted to be appropriate for the conditions on Site. Reference was also made to BS42020:2013: Biodiversity – Code of Practice for Planning and Development.

2.1.2 The assessments at the Site have comprised the following:

Bat:

- Emergence surveys at suitable tree features and buildings (May-September 2023),
- Verification building inspections of all buildings (April 2025);
- Emergence survey of four moderate and 1 high building (May-June 2025).

2.1.3 Full survey methodologies are provided below. Details of dates, weather conditions and a review of survey limitations are provided in the results sections below.

2.1.4 Definitions of technical terms used in this report are provided in the Glossary in Section 7. Common names of species are used throughout the report with scientific names provided in Section 7.2

2.2 Bat Surveys

Inspection of Buildings, Other Structures and Trees for Potential Roost Features

2.2.1 An examination of numerous trees and sixty buildings/structures within the Site and the associated Zone of Influence was undertaken by a Natural England licensed bat surveyor, following standard guidance as set out within the Bat Conservation Trust's (Colins, 2023). The presence of features such as cracks, splits, rot holes, knot holes, cankers, old woodpecker holes, hazard beams or other vertical and horizontal cracks and splits in stems and branches, partially detached dense coverings of ivy (stem diameters >50mm), partially detached plated bark, or bat, bird or dormice boxes, which provide potential roosting opportunities for bats, were all searched for.

2.2.2 Following this assessment buildings/other structures and trees were assigned a value of High, Moderate, Low or Negligible bat roosting potential. Table 2.1 below provides the detailed criteria for each of these categories. The buildings/other structures and trees are assessed in the preliminary ecological assessment (BMD.21.0045.RPE-P1.801.A.-.Ecology). All buildings within the Site are shown on BMD.21.0045.DRE.909.

Table 2.1 Assessment of the Likelihood of Buildings/Other Structures and Trees to Support Roosting Bats.

Suitability of Feature to Support Roosting Bats	Description of Roosting Features – Buildings/Other Structure and Trees
High	A building/other structure or tree with one or more potential roost sites that are suitable for use by larger numbers of bats on a more regular basis and potentially for

Suitability of Feature to Support Roosting Bats	Description of Roosting Features – Buildings/Other Structure and Trees
	longer periods of time due to their size, shelter, protection, conditions ¹ and surrounding habitat.
Moderate	A building/other structure or tree with one or more potential roost sites that can be used by bats due to their size, shelter, protection, conditions ¹ and surrounding habitat, but unlikely to support a roost of high conservation status (e.g. a maternity or hibernation roost).
Low	A building/other structure or tree of sufficient size and age to contain potential roosting features, but with none seen from the ground; or features seen with only very limited roosting potential ² . Contains one or more potential roost features that could be used by individual opportunist bats at any time of the year. These potential features do not provide enough space/shelter to be used on a regular basis or by large numbers of bats.
Negligible	No obvious habitat features on site likely to be used by roosting bats; however, a small element of uncertainty remains as bats can use small and apparently unsuitable features on occasion.
None	No habitat features on site likely to be used by any roosting bats at any time of the year (i.e. a complete absence of crevices/ suitable shelter at all levels).
Notes Table adapted from BCT's publication entitled 'Bat Surveys for Professional Ecologists - Good Practice Guidelines' (2023), Table 4.2, Pg.44. 1 – For example, in terms of temperature, humidity, height above ground level, light levels or levels of disturbance. 2 – This system of categorisation aligns with BS 8596:2015 'Surveying for Bats in Trees and Woodland' (BSI 2020)	

2.2.3 Following the assessment of each structure's or trees' potential to support roosting bats, and following the guidance detailed within BCT's Guidelines (Colins, 2023), it was possible to determine the extent of Phase 2 dusk emergence survey work to be carried out at each feature. Table 2.2 provides an overview of the required survey effort. Other considerations included the extent of any evidence of bats recorded during the initial inspection survey work, and /or any constraints regarding access to inspect each structure or tree.

Table 2.2 Roost Potential Guidelines.

Low Roost Potential	Moderate Roost Potential	High Roost Potential
Buildings - 1 dusk emergence survey May-August.	2 survey visits May-September with at least one of the surveys between May-August	3 survey visits May-September with at least two of the surveys between May-August
Trees – no further surveys required		
NOTE: Two surveys carried out within the same 24 hour period constitute 1 survey Table adapted from BCT's publication entitled 'Bat Surveys for Professional Ecologists - Good Practice Guidelines' (2023), Table 7.1, Pg.70.		

2.2.4 Bat roost surveys were undertaken in 2023 for the one building with high suitability for roosting bats, four buildings with moderate suitability and the subsequent nine buildings which were assessed as having low suitability for bats in the initial assessment. Two trees (TN17 and TN39) were identified as having low suitability for roosting bats. These trees will be subject to one evening emergence survey. All locations of bat potential buildings and trees are shown on the Phase 1 Habitat Plan and Building Plan (Ref BMD.21.0045.DRE.901 and 909 in the Appendix).

2.2.5 Further surveys of the one building with high suitability for roosting bats, four buildings with moderate suitability were undertaken in 2025.

- 2.2.6 All of the other trees situated within the study area or associated Zone of Influence were considered to have negligible potential to support roosting bats due to a lack of suitable access points or roosting locations and as such detailed bat emergence survey work will not be undertaken upon any of these features.

Dusk Emergence Survey Method 2023/ 2025

- 2.2.7 Dusk emergence surveys aim to identify any bats leaving potential roosting features identified during the bat roost potential assessment. This survey method aims to identify the bat species and number of bats utilising a structure or tree in order to help determine the type of bat roost, if present. In this regard, during the emergence surveys, surveyors will employ Echo Meter (EM2 Touch Pro+) bat recorders an infrared camera (Cannon XA11/XA15) to aid identification of any bats observed. In line with BCT guidance, at dusk surveyors will be in position approximately 15-20 minutes prior to sunset, remaining in place for 1.5 hours.
- 2.2.1 In addition, during the evening dusk emergence surveys undertaken at the Site, the opportunity may be taken to monitor general bat activity levels in the local vicinity in order to supplement the specific bat activity survey work undertaken within the study area.
- 2.2.2 A number of nocturnal bat surveys were undertaken on various buildings identified during the initial assessments, as having potential roost features. A full review of all buildings on Site can be found within Ecological Assessment ref: BMD.21.0045.RPE/P1.801.A.-.Ecology.
- 2.2.3 The surveys enabled the following questions to be answered:
- Are bats present or what is the likelihood of bats being present?
 - What bat species use the Site?
 - What is their level of activity?
 - How are they using the Site?
- 2.2.4 The surveys were conducted in line with current best practice and professional judgement see table 2.3. The surveys were undertaken between May and September when bats have emerged from hibernation and are active. May to August is considered to be appropriate to detect maternity colonies, males and non-breeding females in summer roosts (Collins, 2023).

Sonogram Analysis

- 2.2.5 All bat registrations recorded during the bat survey work were analysed using Anabat Insight (for analysis of ZC and FS files) and Kaleidoscope to verify the species recorded during survey work. Registration verification was undertaken by a suitably experienced ecologist with reference to known sonogram parameters. Using Anabat Insight and Kaleidoscope, individual files were labelled where bat species could be identified with reasonable certainty. Calls that appeared to have been produced by bats but could not reliably be attributed to a species were labelled with a "sp." or similar identifier, where possible (e.g. *Myotis* 'sp.').

2.3 Limitations

- 2.3.1 A summary of all limitations considered is provided in Appendix C.

- 2.3.2 The Site was sufficiently accessible, and the survey was undertaken within the optimal period for surveying bats, as such there were no limitations to the survey.

3. RESULTS

3.1 Bats

Building Inspections

- 3.1.1 A total of 60 buildings were assessed for suitability for roosting bats within the initial PEA assessment. One building was assessed as having high suitability for roosting bats, four buildings were assessed as having moderate suitability and nine buildings were assessed as having low suitability buildings in the initial assessment. All other buildings onsite were assessed as having Negligible suitability to support roosting bats due to a lack of suitable access points or roosting locations. Building locations can be seen on BMD.21.0045.DRE.909.
- 3.1.2 Table 3.1 below shows description and value of each building assessed in 2022, 2023 and 2025.

Table 3.1 Building Inspections

Buildin g no.	Description	Value	Survey
3	Building assessment recorded a single storey stable which consisted of a brick structure clad in timber panels. Two timber extensions were also located on the south-eastern aspect. The main roof was pitched and formed from likely asbestos tiling. The extensions included single pitch corrugated likely asbestos sheeting roofs. The building showed signs of wear and tear, with gaps between the timber wall panels, and open doorways provide access/egress. Inspection on the day of survey showed no change to these external features.	Low	
6	Building assessment recorded a single storey elongated barn structure consisting of timber panelling on a brick base, with a pitched corrugated likely asbestos roof. Timber fascia boards and window frames were present (although some window panes missing) and a flat roofed blockwork/brick section extended from the northern aspect. The building showed signs of wear and tear, with gaps between the timber wall panels, damaged windows and gaps under the likely asbestos sheeting provide access/egress. Small clusters of feeding remains were noted throughout the building.	Low	 

14	Building assessment recorded a single storey stable which consisted of a brick structure clad in timber panels. Two timber extensions were also located on the south-eastern aspect. The main roof was pitched and formed from likely asbestos tiling on top of tight boarding. The extensions included single pitch corrugated likely asbestos sheeting roofs. The building showed signs of wear and tear, with gaps between the timber wall panels, and open doorways provide access/egress. Internally numerous access points and opportunities were noted with bat droppings recorded within the south of the stable block.	Moderate		
17	Building assessment recorded a two-storey residential structure which consisted of brick walls, with white render on the first floor and a clay tiled hipped roof. A timber framed conservatory protruded from the southern edge of the building. Timber soffit boxes and a chimney stack were also recorded. Overall, the building was in a good state of repair; however, slipped tiles were recorded on the southern aspect of the roof. Inspection on the day of survey showed no change to these external features. House sparrows were utilising gaps at roof edges above the guttering at northeast elevation. Internal inspection conducted within loft void (5-6 m in height with wooden struts and beams). Loft space was extremely dirty, cobwebbed and unlined with no void at rafters. No signs of bats were identified during the inspection.	Low		

35	Building assessment recorded a small shed structure which consisted of timber/corrugated metal walls. The pitched metal roof included timber barge boards. The building showed signs of wear and had been constructed in a non-uniform fashion. Multiple large access points to interior via roof breaks, gaps in wooden walls, rafters and fascia board. Elder tree is present between B35 & B36. Interior quite drafty, multiple historic and active bird nests are present within the build including confirmed wren. One historic bat dropping was present on the floor of interior.	Low	
39	Building assessment recorded a single storey C shaped stable in constant use which consisted of a brick and blockwork structure clad in timber panels. The system of roofs comprised pitched sections formed from likely asbestos tiles and corrugated sheeting. The building showed signs of wear and tear, with gaps between the timber wall panels, damaged windows and gaps under the likely asbestos sheeting progress access/egress.	Moderate	

40	Building assessment recorded a shed structure which consisted of corrugated metal sheets on a timber structure, with part flat, part single-pitch corrugated metal roof. Timber fascia boards and skirting was also present surrounding the side-hinged doors on the southern aspect. In places the building was in a poor state of repair; however, openings around the joints in the frame or roof lead to possible entry and roosting opportunities. Due to no internal access and possible opportunities within the interior that could not be assessed the building is recorded to have low opportunity.	Low	
44	Building assessment recorded a single storey barn structure in constant use which consisted of a brick structure clad in timber panels. The system of roofs comprised pitched sections formed from likely asbestos tiles. The building contained a number of with gaps between the timber wall panels, damaged and gaps under the likely asbestos sheeting progress access/egress.	Low	No Photo
45	Building assessment recorded a two-storey residential structure which consisted of brick walls and a clay tiled pitched roof. Overall, the building was in a good state of repair although a number of tiles were missing on the eastern elevation creating potential entry points. Internally the loft void is unlined and a couple of historic bat droppings were present within the loft space.	Moderate	

48	Building assessment recorded a single storey C shaped barn in constant use which consisted of a brick and blockwork structure clad in timber panels. The system of roofs comprised pitched sections formed from likely asbestos tiles and wooden boards on the apex's. The building showed signs of wear and tear, with gaps between the timber wall panels, damaged windows and gaps under the likely asbestos sheeting progress access/egress. A number of nests were recorded on the exterior and interior likely swallow and wren.	Moderate	
53	Previous survey assessment recorded a building which consisted of timber panelling. The roof is pitched and consists of likely asbestos cement roofing tiles. Some tiles were missing, but no cavities available as a result. There was a number of gaps under lifting weatherboarding which create possible roosting opportunities specifically at the gable/apex of the building.	Low	

55	Building assessment recorded a former pig shed. Constructed of a flat tin roof, open on all sides to the elements although the centre is well covered. Internally, a number of crevices within the boardings of the walls were recorded and other roosting opportunities internally that were suitable to support roosting bats. The structure was damp in many places and dilapidated.	Low	
56	Building assessment recorded a C shaped building used as a stable block and storage barns. The structure consisted of timber panelling. The roof was pitched and consisted of tiles on a single lined timber panelling with likely asbestos tiles. A number of gaps were noted externally including lifted weatherboarding and gaps under the eaves allowing access internally. Internally the structure was free of evidence of bats, cobwebs present and dirty throughout the storage barns. Gaps from missing mortar under the stable vents allow opportunity for roosting bats as well as other external features.	Moderate	 

59	Building assessment recorded a two-storey residential structure which consisted of brick walls and a clay tiled pitched roof. Overall, the building was in a good state of repair. A number of tiles on the south western elevation had slipped allowing access for roosting bats between the tiles and mortar. Internally the loft void is unlined and no evidence was recorded.	Low	
TN17 Field Maple	Field maple with feature suitable for roosting bats (trunk cavity)	Low	No Photo
TN39 Mature Elder	Mature elder covered with ivy within arable field which has low bat roost potential.	Low	No Photo

Bat Emergence Surveys

- 3.1.3 A total of 60 buildings were assessed for suitability for roosting bats within the initial PEA assessment. One building was assessed as having high suitability for roosting bats, four buildings were assessed as having moderate suitability and nine buildings were assessed as having low suitability buildings in the initial assessment. All other buildings onsite were assessed as having Negligible suitability to support roosting bats due to a lack of suitable access points or roosting locations. Building locations can be seen on BMD.21.0045.DRE.909.
- 3.1.4 Limited trees within the Site were assessed as having low-moderate suitability for roosting bats. This included a tree within H8, a field maple with a south-facing trunk cavity assessed as low suitability. Similarly, the dense area of scrub associated with H9 included a semi-mature ash with features suitable for roosting bats. Furthermore, H2 also included a mature ash with dense ivy covering up trunk, and consequently the ivy cladding leads to this mature ash being recorded as having low bat roost potential. The other tree species included field maples which all had low bat roost potential owing to ivy cladding.
- 3.1.5 The number of surveyors and their positions were determined by potential roosting features or opportunities. Full survey results are shown in the appendix along with a plan depicting these positions in shown in the Appendix D

2023 Results

- 3.1.6 Five species of bat were confirmed during the survey: common and soprano pipistrelle, noctule, leisler and brown long-eared bat.
- 3.1.7 The survey visibility was good and the Site was unlit. Ambient light levels, resulting from light spill from the surrounding urban environment, were considered low with only streetlights or other light spillage. within the centre of the Site on Royston Road.
- 3.1.8 Numerous passes by noctule, leisler's, common and soprano pipistrelle were recorded throughout the surveys, however no more than two bats (pipistrelles) were recorded foraging at a time. Single brown long eared bat contacts were picked up during a number of the surveys, these were only commuting bats. No bats were observed emerging from any building surveyed.

2025 Results

- 3.1.9 Three species of bat were confirmed during the survey: common pipistrelle, soprano pipistrelle and noctule.
- 3.1.10 The survey visibility was good and the Site was unlit. Ambient light levels, resulting from light spill from the surrounding urban environment, were considered low with only streetlights or other light spillage. within the centre of the Site on Royston Road.

Single contacts were recorded on each survey with activity levels very low. These were only commuting bats. No bats were observed emerging from any building surveyed.

4. EVALUATION

4.1 Bat Roosts

4.1.1 External and internal building inspections have been undertaken on all bar two buildings. One semi-mature ash tree onsite with a south-facing cavity and a field maple with thick ivy cladding offered low suitability for roosting bats. All of the other trees situated within the study area or associated Zone of Influence were considered to have negligible potential to support roosting bats and as such detailed bat emergence survey work will not be undertaken upon any of these features.

4.1.2 A number of fully inspected buildings and structures present within the study area provide only Negligible potential to support roosting bats and therefore no emergence survey work will be undertaken upon any of these features).

4.2 Introduction

4.2.1 This section summarises the evidence to date in response to the four elements of the objectives of the current study pertaining to bat activity.

4.3 Are bats present / what is the likelihood of bats being present?

4.3.1 Bats were recorded and seen during the dusk surveys confirming that bats are present in the vicinity of the building.

4.3.2 No bats were noted to have emerged from any of the buildings or trees surveyed.

4.4 What bat species use the site?

4.4.1 The following species were recorded during the surveys associated with foraging and commuting only:

- Common pipistrelle
- Soprano Pipistrelle
- Noctule
- Leisler's
- Brown long-eared bat

4.5 What is their level of activity?

4.5.1 The activity level was low throughout the surveys and comprised largely of single passes by common and soprano pipistrelles and noctule. The majority of bat contacts were picked up briefly as species were commuting as they passed adjacent to the Site or feature.

4.5.2 Bat activity was confined to brief contacts of a number of individual species. A low level of feeding activity from common and soprano pipistrelles was recorded around the majority of buildings with foraging and feeding potential including grassland and scattered trees.

4.6 How are they using the site?

- 4.6.1 There was no evidence to suggest any of the bats noted during the survey are using the building or the immediate surround for roosting. A number of the buildings in the initial assessment contained feeding remains and single number of droppings likely to be feeding perches of brown-long eared bats. However no bats emerged during the surveys and these are likely to be historical droppings from previous seasons.
- 4.6.2 There was evidence from the survey to suggest that a small number of common and soprano pipistrelles are using the Site for feeding.

5. CONCLUSIONS

- 5.1.1 A number of emergence surveys were undertaken of 14 buildings and two trees within the Site from May-September 2023. Lower levels of activity were recorded in 2025, limited to single contacts from common species commuting over the Site.
- 5.1.2 Bat activity recorded during the dusk emergence surveys in 2023 and 2025 was low and confined to single passes by feeding and foraging common and soprano pipistrelles, noctule, leisler's and brown long-eared. The majority of contacts recorded were from commuting bats. A number of the surveys contained single pipistrelles feeding within the courtyards of farm buildings.
- 5.1.3 No emergence from any of the buildings or trees surveyed was recorded.
- 5.1.4 As such the Site is not considered to represent an important resource for bats in the area and the buildings on Site are unlikely to support a significant bat roost. As there are features that are typically associated with bat roosts, there remains a low possibility that the Site may be used by individual bats for short periods of time, notably during their active season.

6. RECOMMENDATIONS

- 6.1.1 The presence of protected and notable species has been confirmed on Site and as such the following mitigation and compensation/enhancement requirements have been identified:
- 6.1.2 **Bats:** No confirmed roosts have been identified; therefore, no bespoke mitigation is required at this current point in relation to roosts.
- 6.1.3 Within the proposals the current plans are to demolish and redevelop the majority of buildings within the Site. Therefore, a precautionary approach is recommended for any works associated with the buildings:
- Immediately prior to works commencing:
 - Tool box talk to on-site workers on bats. (Purpose: to ensure on-site workers are aware of the possibility (albeit low) of individual bats and what to do should they find one during the works. To ensure the works and workers do not breach current legislation)
 - Inspection of potential roost features where possible to identify any bats, if present, utilising the features ahead of any works within the zone of influence
 - Soft strip of the potential roost features prior to works as required.
 - If bats or evidence of bats are found at any stage:
 - All works MUST stop and not re-commence until advice has been received from an appropriately qualified ecologist.
 - Liaison with Nature England may be necessary.
 - A European Protected Species Licence may be necessary before works can re-commence.
- 6.1.4 Lighting:
- No additional flood lighting to be used between sunset and sunrise without agreement with a suitably qualified ecologist; and
 - Retained habitat corridors within and adjacent to the Site to remain as dark corridors during works and post-development, with no increase in current light levels where feasible to do so.
- 6.1.5 In addition, the following best practice recommendations are made in relation to the works:
- Avoid significant increase, compared with current baseline, in external light and minimise noise, light and vibrations during and post-development.
 - Avoid an additional light along the northern edge of the Site during and post-construction.
 - Adhere to former Pollution Prevention Guidelines (PPG) (or more recent guidance where available), in particular PPG1 Basic good environmental practices; PPG3 Use and design of oil separators in surface water drainage systems; PPG6 construction and demolition sites.
- 6.1.6 The following opportunities for enhancement and biodiversity gain are recommended:

- Provision of bat roost features within new built form (e.g. integrated bat boxes) and on retained trees/buildings.
- Erection of bat boxes, suitable for common species, within or in close proximity to the Site, e.g. on the mature trees away from development. These should be attached to a single tree at approximately 1200 so providing a range of potential roosts with different micro-conditions. (Purpose: to ensure a safe place for bats should they be found during the works)
- Provision of enhanced grassland/ scattered tree areas to provide new foraging opportunities within the Site e.g. areas of wildflower, introduced shrubs and urban tree planting.

6.1.7 Retention of boundary hedgerows and treelines supplemented with new planting will continue to provide bat foraging and commuting corridors. Retention of dark corridors throughout Site e.g. hedgerows/Royston Road that are utilised by the bat species onsite. Enhancements of the low quality woodland patch, herb - rich grassland alongside scrub management including targeted planting for increasing nocturnal insect biomass would also benefit bats with regard to new and enhanced foraging areas. Installation of SUDS will also provide additional foraging opportunities for bats. Bat box installation at the Site would also provide roosting features in an area that lacks a range of roost types. Light levels should be kept to the minimum required for safety and follow best practice for lighting in relation to bats and other nocturnal fauna (BTC and ILP, 2023).

6.1.8 **General habitat enhancement** opportunities are detailed in the ecological assessment report (BMD.21.0045.RPE/P1.801.A.-.Ecology). More detailed enhancements and mitigation is provided within the Ecological Management Plan (BMD.21.0045.RPE.MP.809.A.EMP).

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8. GLOSSARY

8.1 Scientific Terms and Acronyms

CIEEM Chartered Institute of Ecology and Environmental Management; the professional organisation and provider of professional codes of conduct for ecological consultancy.

EPS European Protected Species For the purposes of this report EPS are species that require particular licences to allow certain works to go ahead.

Level of protection – ‘EU’ Protected under the Conservation of Habitats and Species Regulations (2017).

Level of protection – ‘UK’ Protected under the Wildlife and Countryside Act 1981 (as amended).

Notable species A species which is listed as a UK Priority Species, carries an unfavourable conservation status (e.g. scarce, rare, threatened, Red-listed), is invasive or is otherwise worthy of note from an ecological perspective.

Protected species A species protected under specific UK or European legislation, including Habitats Directive, Wildlife and Countryside Act.

UK Priority Habitat and species A habitat or species identified as a priority for conservation in accordance with Section 41 of the Natural Environment and Rural Communities Act (2006). Section 40 of the Act places a duty on public authorities to have regard for the conservation objectives of these habitats and species. (Also known as Section 41 (S41) habitats/species).

ZC – Zero crossing files represent one frequency at a time.

FS – Full spectrum files record multiple sources of sound simultaneously, such as multiple bats vocalizing in the same area, or a single bat in a noisy environment.

8.2 Scientific Names

8.2.1 Scientific names of species mentioned in this report are outlined in Table 7.1.

Table 7.1 Scientific names of species mentioned within this report

English Name	Scientific Name
Mammals	
Brown long-eared	<i>Plecotus auritus</i>
Common pipistrelle	<i>Pipistrellus pipistrellus</i>
Leisler's	<i>Nyctalus leisleri</i>
Noctule bat	<i>Nyctalus noctula</i>
Soprano pipistrelle	<i>Pipistrellus pygmaeus</i>

APPENDICES

A. PLANS

SITE LOCATION

Drawing BMD.21.0045.DRE.902: Site Location

BATS

Drawing BMD.21.0045.DRE.901.Phase 1 Habitats

Drawing BMD.21.0045.DRE.909: Baldock Buildings

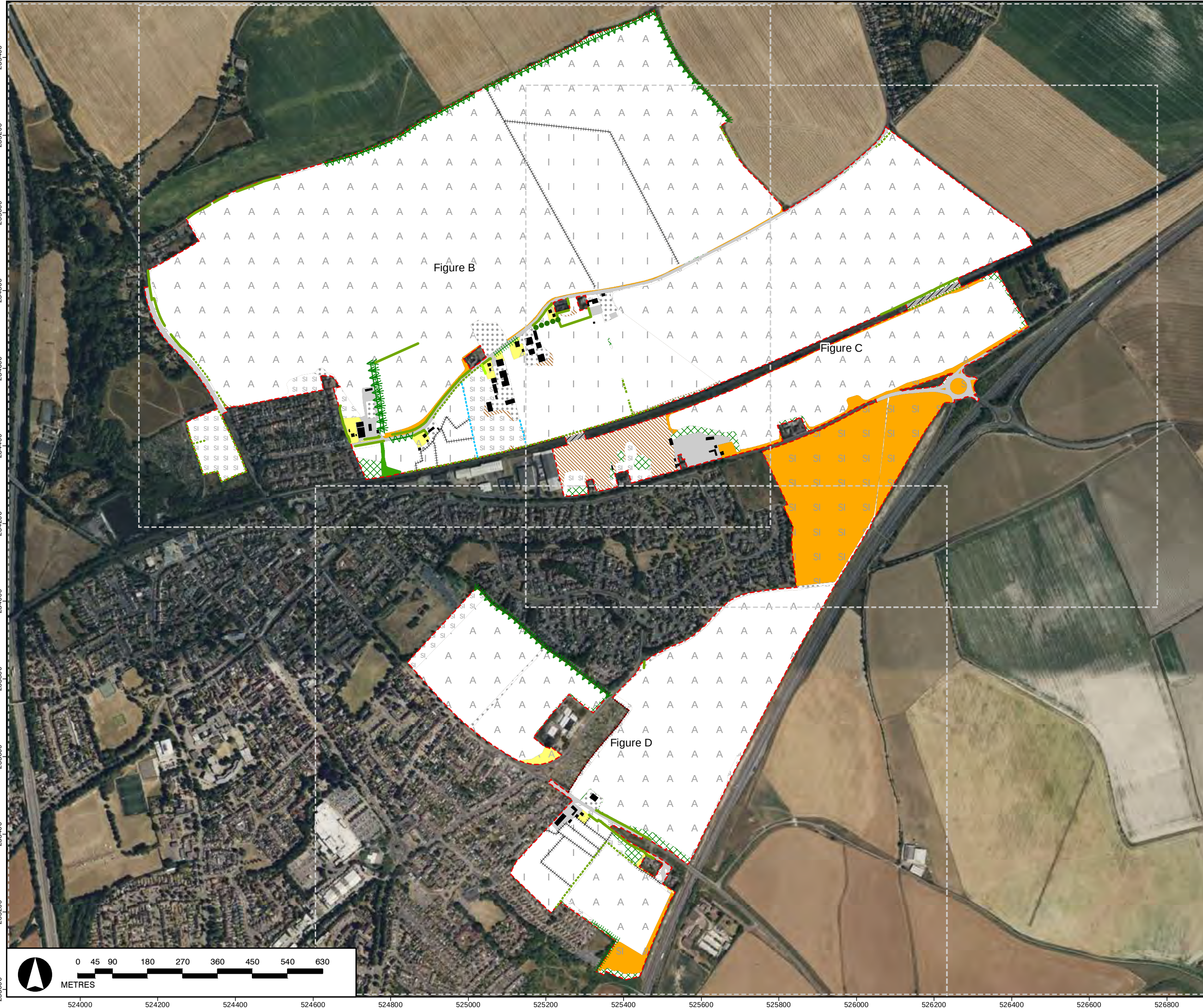


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Pre-development Habitats

	A1.1.1 - Broadleaved woodland - semi-natural
	A2.1 - Scrub - dense/continuous
	B2.2 - Neutral grassland - semi-improved
	B4 - Improved grassland
	B6 - Poor semi-improved grassland
	C3.1 - Other tall herb and fern - ruderal
	J1.1 - Cultivated/disturbed land - arable
	J1.2 - Cultivated/disturbed land - amenity grassland
	J3.6 - Buildings
	J4 - Bare ground
	J5 - Other habitat - road
	J5 - Other habitat - railway
	J2.1.1 - Intact hedge - native species-rich
	J2.1.2 - Intact hedge - species-poor
	J2.2.1 - Defunct hedge - native species-rich
	J2.2.2 - Defunct hedge - species-poor
	J2.3.1 - Hedge with trees - native species-rich
	J2.3.2 - Hedge with trees - species-poor
	Line of trees
	Non-native and ornamental hedgerow
	J2.4 - Fence
	J2.6 - Dry ditch
X	Target note

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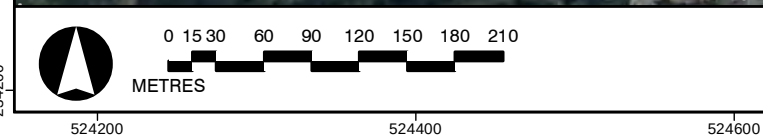
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	J2.3.1 - Hedge with trees - native species-rich
	J2.3.2 - Hedge with trees - species-poor
	Line of trees
	Non-native and ornamental hedgerow
	J2.4 - Fence
	J2.6 - Dry ditch
	Scattered tree - very large
	Scattered tree - large
	Scattered tree - medium
	Scattered tree - small
	Scattered scrub
	Target note

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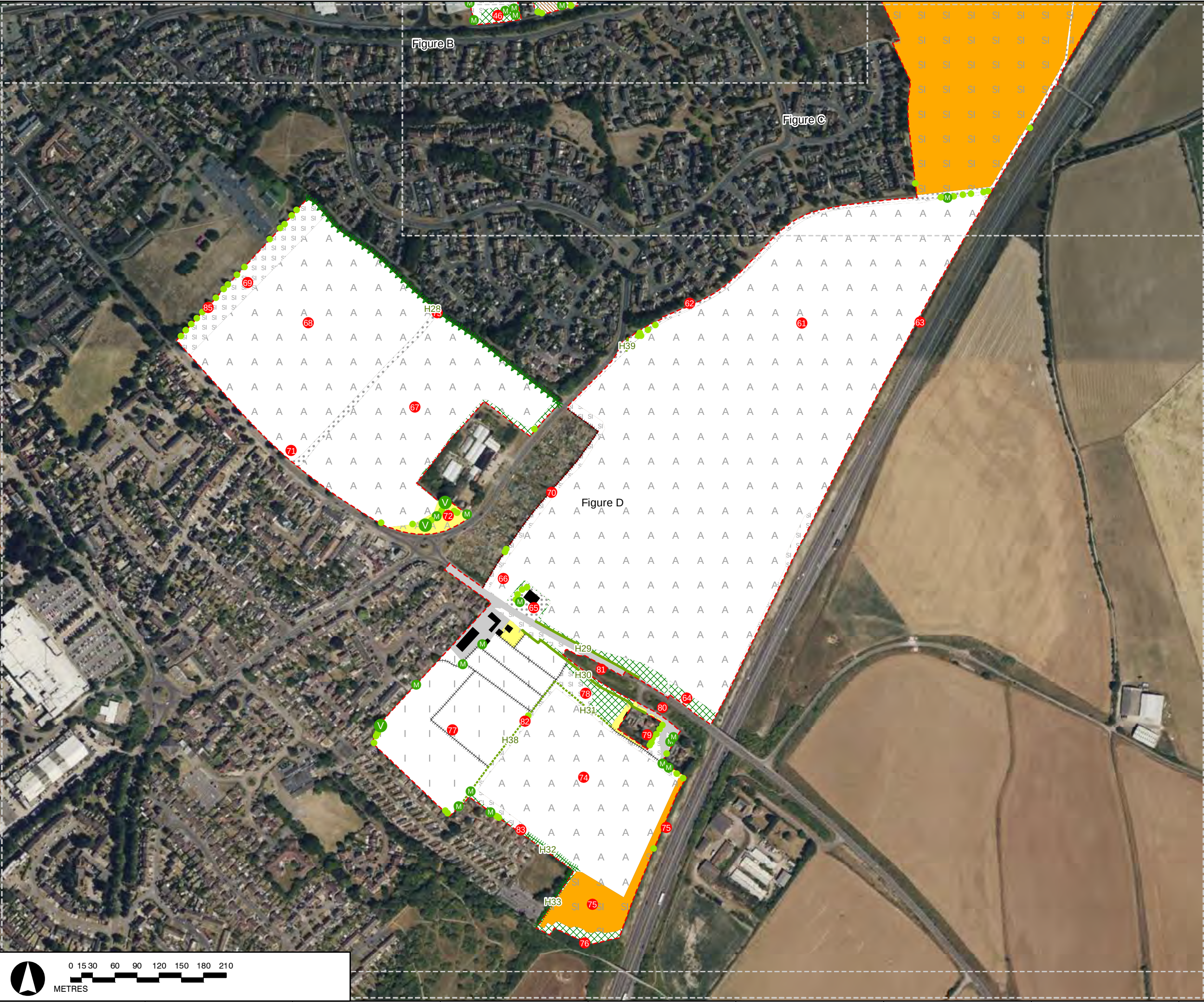
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	J2.3.2 - Hedge with trees - species-poor
	Line of trees
	Non-native and ornamental hedgerow
	J2.4 - Fence
	J2.6 - Dry ditch
	Scattered tree - very large
	Scattered tree - large
	Scattered tree - medium
	Scattered tree - small
	Scattered scrub
	Target note

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	J2.6 - Dry ditch
	Scattered tree - very large
	Scattered tree - large
	Scattered tree - medium
	Scattered tree - small
	Scattered scrub
	Target note

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Application boundary

Building

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Rev	Description	--	
Purpose of Issue			
INFORMATION			
Bradley Murphy Design Ltd Studio 3, Floor 18 Alpha Studios Alpha Tower Suffolk St Queensway Birmingham B1 1TT t: 0121 815 9127 e: info@bradleymurphydesign.co.uk www.bradleymurphydesign.co.uk			
Client			
URBAN & CIVIC			
Project			
BALDOCK			
Drawing Title			
D: BUILDING PLAN - BUILDINGS 42 - 50			
Drawn	Checked	Approved	Date
MP	LMB	JP	18/09/25
Job No.	Scale	Sheet Size	Revision
21.0045	1:1,200	A3	B
Drawing Number			
BMD.21.0045.DRE.909D			



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Client			
URBAN & CIVIC			
Project			
BALDOCK			
Drawing Title			
E: BUILDING PLAN - BUILDINGS 51 - 60			
Drawn	Checked	Approved	Date
MP	LMB	JP	18/09/25
Job No.	Scale	Sheet Size	Revision
21.0045	1:1,200	A3	B
Drawing Number			
BMD.21.0045.DRE.909E			



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B. POLICY AND LEGISLATION

B.1.1 Tables B.1 and B.2 provide a summary of wildlife legislation and policy of relevance to development at the Site.

Table B.1 Overview of species/species groups relevant to the current proposals and associated legislation and policy

Species/Species group	European	UK ¹	Priority species ²
Bats (all species)	✓	Full	Species dependent
Notes ¹ Principally the Wildlife and Countryside Act; Full = full protection, either from the Wildlife and Countryside Act 1981 (as amended) alone or in combination between this act and European legislation; partial = partially protected. ✓ = covered by other specific legislation. ² Includes over 900 species listed in accordance with section 41 of the NERC Act (2006). Species known or most likely to utilise the Site are indicated where appropriate.			

Table B.2 Relevant species legislation for development at the Site

Species / group	Legislation ^{see notes}													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Bats (all species)					✓		✓			✓	✓			✓
Notes ¹ Protection of Badgers Act 1992 ² Wildlife and Countryside Act, 1981 (as amended) – Part 1 ³ Wildlife and Countryside Act, 1981 (as amended) – Schedule 1 (some species, none recorded within the Site) ⁴ Wildlife and Countryside Act, 1981 (as amended) – Schedule 5, Section 9 ⁵ Wildlife and Countryside Act, 1981 (as amended) – Schedule 5, Section 9 (4b, 4c) and (5) ⁶ Wildlife and Countryside Act, 1981 (as amended) – Schedule 5, Section 9 (1, in respect of killing and injuring) and (5) ⁷ Wildlife and Countryside Act, 1981 (as amended) – Schedule 6, Section 11 ⁸ Wildlife and Countryside Act, 1981 (as amended) – Schedule 8, Section 13 ⁹ Wildlife and Countryside Act, 1981 (as amended) – Schedule 9, Section 14 ¹⁰ Conservation of Habitats and Species Regulations 2017 – Schedule 2 (European protected species) ¹¹ Natural England and Rural Communities Act (2006) – Various species listed in accordance with Section 41 ¹² Invasive Species regulations: EU Regulation (1143/2014) on invasive alien (non-native) species ¹³ Anti-social Behaviour, Crime and Policing Act 2014 ¹⁴ Environmental Protection Act 1990 ¹⁵ Wild Mammals (Protection) Act 1996														

B.1.2 The key national planning policies and documents are:

- The Environment Act (2021);
- The National Planning Policy Framework (2025); and
- The Natural Environment and Rural Communities (NERC) Act (2006).

C. METADATA, SURVEY CONDITIONS AND LIMITATIONS

C.1 Metadata.

Factor	Detail
Data	Bat nocturnal surveys
Reason for collection	To provide an update to existing baseline data at the Site to inform appropriate mitigation in relation to proposed development.
Location	Land to the east and south of mouBaldock, Hertfordshire approximate centre: TL 25319 34539.
Date	May-September 2023 and May-June 2025
Method of collection	See section 2.2
Who collected	Katie Dalton BSc (Hons) MRSB ACIEEM – level 2 licenced bat surveyor Jonathan Wood MCIEEM – Level 2 licenced bat surveyor Heather Ridgway BSc (Hons) Keith Seaman MCIEEM – Level 2 licenced bat surveyor Emma Seaman – Level 2 licenced bat surveyor Beth Dunstan Rosie Softley

C.2 Survey Conditions

C.2.1 See individual survey sheets in Appendix D.

Building no.	2023 Date	2025 Date	Survey
3	20 th June		Dusk Emergence Survey
6	20 th June		Dusk Emergence Survey
14	18 th July - 15 th August	23 rd May	Dusk Emergence Survey
17	27 th June		Dusk Emergence Survey
35	27 th June		Dusk Emergence Survey
39	25 th July - 17 th August	23 rd May	Dusk Emergence Survey
40	27 th June		Dusk Emergence Survey
44	20 th July		Dusk Emergence Survey
45	20 th July - 1 st August	23 rd May	Dusk Emergence Survey
48	10 th July - 6 th September	6 th June	Dusk Emergence Survey
53	7 th August		Dusk Emergence Survey
55	29 th August		Dusk Emergence Survey
56	13 th July -24 th August	6 th June	Dusk Emergence Survey
59	27 th July		Dusk Emergence Survey
TN17 Field Maple	5 th July		Dusk Emergence Survey
TN39 Mature Elder	3 rd August		Dusk Emergence Survey

D. SURVEY FORMS

BUILDING 3

For BMD

[illegible][illegible]

[illegible]

BUILDING 6



Bat Emergence/Re-entry Survey Recording Form - B6

Name of Site: Baldock (Building 6) – 21.0045		Surveyor's position: Southeast elevation of shed and northeast of Barn (Building 6)
Date: 20/06/2023	Weather conditions: Warm, light breeze, 20% cloud, no rain, sunny 3 WSW (thunderstorm and rain from 22:45)	
Temperature (start): 20		Temperature (end): 19
Light conditions: Good light levels, no haze, mostly sunny with some cloud		Insects flying? Yes, midges, moths, flies, wasps etc.
Sunset time: 21:24 Sunrise time: N/A		Audio recording started at: 21:10 Audio recording ended at: 22:45 Camera recording started at: 21:10
Time	Details of Bat Activity	
21:55	Pipistrelle emerges, potentially at south corridor of shed and Barn or the northeast corner of the Barn. Forages to the west of the yard. – No emergence footage checked	
22:00	2 x common pipistrelle coming in and out of the open barn structure. One appears to remain inside for a considerable time.	
22:08	Common pipistrelle circling round the barn east entrance, going in and out of the structure.	
22:09	2 x common pipistrelle circling round the barn east entrance, going in and out of the structure.	
22:10	2 x common pipistrelle circling round the barn east entrance, going in and out of the structure.	
22:11	2 x common pipistrelle circling round the barn east entrance, going in and out of the structure.	
22:12	2 x common pipistrelle circling round the barn east entrance, going in and out of the structure. Both then travel through the shed/barn corridor.	
22:13	2 x common pipistrelle circling round the barn east entrance, going in and out of the structure. One then travel through the shed/barn corridor.	
22:22	1 x common pipistrelle exits out the eastern exit of the barn and flies east.	

- Shed = Building 6
- Barn = Building 5



Bat Emergence/Re-entry Survey Recording Form - B6

Name of Site: Baldock (Building 6) – 21.0045		Surveyor's position: Southwest corner of wooden shed (Building 6)	
Date: 20/06/2023	Weather conditions: Warm, light breeze, 20% cloud, no rain, sunny 3 WSW (thunderstorm and rain from 22:45)		
Temperature (start): 20		Temperature (end): 19	
Light conditions: Good light levels, no haze, mostly sunny with some cloud		Insects flying? Yes, midges, moths, flies, wasps etc.	
Sunset time: 21:24 Sunrise time: N/A		Audio recording started at: 21:10 Audio recording ended at: 22:45 Camera recording started at: 21:10	
Time	Details of Bat Activity		
22:00	1x NYCLEI – echo only		
22:04	1x unknown – flying at moderate height eastwards above shed from garden to yard		
22:09	1x MYONAT – echo only		
22:10	1x unknown (large) – flying through gully between shed and barn westwards from yard to garden		
22:13	2x CPIP – flying westwards from yard to garden		
22:14	1x CPIP – flying/foraging in garden		
22:15	1x NCYNOC – echo only		
22:31	1x NCYLEI – echo only		
22:40	2x NYCLEI – echo only		
22:41	1 x NYCLEI – echo only		
22:41	1x NCYNOC – echo only		
22:42	1x NCYLEI – echo only		
22:42	2x NCYNOC – echo only		
22:43	1x PIPPYG – echo only		
22:43	2x NYCNOG – echo only		
22:44	1x PIPPIP – echo only		
22:44	1x PIPNAT – echo only		



Bat Emergence/Re-entry Survey Recording Form - B6

Name of Site: Baldock (Building 6) – 21.0045		Surveyor's position: northeast elevation of shed (Building 6)	
Date: 20/06/2023		Weather conditions: Warm, light breeze, 20% cloud, no rain, sunny 3 WSW (thunderstorm and rain from 22:45)	
Temperature (start): 20		Temperature (end): 19	
Light conditions: Good light levels, no haze, mostly sunny with some cloud		Insects flying? Yes, midges, moths, flies, wasps etc.	
Sunset time: 21:24 Sunrise time: N/A		Audio recording started at: 21:10 Audio recording ended at: 22:45 Camera recording started at: 21:10	
Time	Details of Bat Activity		
22:08	Common pipistrelle flying north- south then foraging around barn.		
22:09	Common pipistrelle flying north- south then foraging around barn.		
22:10	Common pipistrelle flying north- south then foraging around barn.		
22:11	Common pipistrelle flying north- south then foraging around barn.		
22:12	Common pipistrelle flying north- south then foraging around barn.		

- Shed = Building 6
- Barn = Building 5

BUILDING 14



Bat Emergence/Re-entry Survey Recording Form - B14

Name of Site: Baldock (Building 14) – 21.0045		Surveyor's position: KD - south east & centre of stables	
Date: 18/07/2023		Weather conditions: Damp, no wind, 80% cloud (rain from 22:35)	
Temperature (start): 17		Temperature (end): 15	
Light conditions: Good light levels, no haze, mostly sunny with some cloud		Insects flying? Yes, midges, moths, flies, cockchafer etc.	
Sunset time: 21:10 Sunrise time: N/A		Audio recording started at: 21:00 Audio recording ended at: 22:40 Camera recording started at: 21:00	
Time	Details of Bat Activity		
21:43	Noctule contact – unseen detected only.		
22:06	Leisler's contact – unseen detected only.		
22:10	BLE passed through in front of building		
22:17	3x Leisler's contact – unseen detected only.		



Bat Emergence/Re-entry Survey Recording Form - B14

Name of Site: Baldock (Building 14) – 21.0045		Surveyor's position: RS - south west & centre of stables
Date: 18/07/2023	Weather conditions: Damp, no wind, 80% cloud (rain from 22:35)	
Temperature (start): 17		Temperature (end): 15
Light conditions: Good light levels, no haze, mostly sunny with some cloud		Insects flying? Yes, midges, moths, flies, cockchafer etc.
Sunset time: 21:10 Sunrise time: N/A		Audio recording started at: 21:00 Audio recording ended at: 22:40 Camera recording started at: 21:00
Time	Details of Bat Activity	
21:43	Noctule contact – unseen detected only.	
22:06	Leisler's contact – unseen detected only.	
22:10	BLE passed through in front of building heading east	
22:17	2x Leisler's contact – unseen detected only.	

Surveyor Name: Emma	lpad used: 1 2 <u>my own</u> (please circle)
Name of Site: Bldg -14, Bugrave Rd, Batcock	
Surveyor Position: Roadside elevation	
Date: 18/7/23	Weather conditions: warm, cloudy, humid
Temperature (start): 16°C	Temperature (end): 15°C
Light conditions: Good	Insects flying? yes
Sunset/sunrise time: 21:11	Audio Recording started at: 21:00
Time	Details of Bat Activity

21:43 Noctule contact - unseen.

21:55 Brief unseen 45 pip contact.

22:07 ~~noctule~~ Leisler Unseen contact.

22:16 45 pip contact unseen.

22:18 Leisler's Unseen contact.

[illegible]

[illegible]



Bat Emergence/Re-entry Survey Recording Form - B14

Name of Site: Baldock (Building 14) – 21.0045		Surveyor's position: RS - south west & centre of stables	
Date: 15/08/2023		Weather conditions: Sunny, slight breeze, 70% cloud	
Temperature (start): 20		Temperature (end): 18	
Light conditions: Good light levels, no haze, mostly sunny with some cloud		Insects flying? Yes, midges, moths, flies, cockchafer etc.	
Sunset time: 20:24 Sunrise time: N/A		Audio recording started at: 20:10 Audio recording ended at: 21:50 Camera recording started at: 20:10	
Time	Details of Bat Activity		
20:18	Common Pip contact -seen		
20:20	Common Pip contact -seen		
20:50	Common Pip contact -seen		
20:58	Common Pip contact -seen		
21:01	Common Pip contact -seen		
21:20	Noctule Contact - unseen		
21:20	Common Pip contact -seen		
21:27	Lesilers contact - unseen		
21:31	Common Pip contact -seen		
21:34	Common Pip contact -seen		



Bat Emergence/Re-entry Survey Recording Form - B14

Name of Site: Baldock (Building 14) – 21.0045		Surveyor's position: KD - south east & centre of stables
Date: 15/08/2023	Weather conditions: Sunny, slight breeze, 70% cloud	
Temperature (start): 20	Temperature (end): 18	
Light conditions: Good light levels, no haze, mostly sunny with some cloud	Insects flying? Yes, midges, moths, flies, cockchafer etc.	
Sunset time: 20:24 Sunrise time: N/A	Audio recording started at: 20:10 Audio recording ended at: 21:50 Camera recording started at: 20:10	
Time	Details of Bat Activity	
20:18	Common Pip contact -seen	
20:20	Common Pip contact -seen	
20:50	Common Pip contact -seen	
20:58	Common Pip contact -seen	
21:01	Common Pip contact -seen	
21:20	Noctule Contact - unseen	
21:20	Common Pip contact -seen	
21:27	Leisler's contact - unseen	
21:31	Common Pip contact -seen	
21:34	Common Pip contact -seen	

[illegible]



Bat Emergence/Re-entry Survey Recording Form - B14

Name of Site: Baldock (Building 14) – 21.0045		Surveyor's position: walking around the building.	
Date: 23/05/2025		Weather conditions: Sunny, slight breeze, 70% cloud	
Temperature (start): 16		Temperature (end): 14	
Light conditions: Good light levels, no haze, mostly sunny with some cloud		Insects flying? Yes, midges, moths, flies, cockchafer etc.	
Sunset time: 21:00 Sunrise time: N/A		Audio recording started at: 20:45 Audio recording ended at: 22:30 Camera recording started at: 20:45	
Time	Details of Bat Activity		
21:30	Common Pip contact -seen pass over		

BUILDING 17

Bat Emergence/Re-entry Survey Recording Form – B17



Name of Site: Baldock (Building 17) – 21.0045		Surveyor's position: Western elevation of B17, situated in the garden	
Date: 27/06/2023		Weather conditions: Warm, light breeze, 60% cloud, no rain,	
Temperature (start): 19		Temperature (end): 18	
Light conditions: Good light levels, no haze, mostly overcast		Insects flying? Yes, midges, moths, flies, large population of wasps entering and exiting roof tiles.	
Sunset time: 21:25 Sunrise time: N/A		Audio recording started at: 21:10 Audio recording ended at: 22:55 Camera recording started at: 21:10	
Time	Details of Bat Activity		
22:04	1 x Noctule flying high overhead travelling from the east to the west offsite		
22:06	1 x common pipistrelle flies in east from adjacent land to the garden, foraging within the garden to the SW of build before travelling west again		
22:07	1 x common pipistrelle flies in east from adjacent land to the garden, forages in the garden to the SW of build before travelling south		

Bat Emergence/Re-entry Survey Recording Form – B17



Name of Site: Baldock (Building 17) – 21.0045		Surveyor's position: South eastern elevation of B17, situated in the garden
Date: 27/06/2023	Weather conditions: Warm, light breeze, 60% cloud, no rain,	
Temperature (start): 19	Temperature (end): 18	
Light conditions: Good light levels, no haze, mostly overcast	Insects flying? Yes, midges, moths, flies, large population of wasps entering and exiting roof tiles.	
Sunset time: 21:25 Sunrise time: N/A	Audio recording started at: 21:10 Audio recording ended at: 22:55 Camera recording started at: 21:10	
Time	Details of Bat Activity	
21:53	1 x Noctule flying high overhead travelling generally from the east to the west offsite distant contact	
21:59	1 x Noctule flying high overhead travelling generally from the east to the west offsite distant contact	
22:03	1 x Noctule flying high overhead to the south distant contact	
22:04	1 x Leisler's Noctule flying high overhead travelling generally from the east to the west offsite distant contact	
22:07	1 x Noctule flies south from adjacent land to the west	
22:15	Noctule commuting to the north of the surveyor along the road	
22:41	Common pip foraging to the south of the surveyor	

BUILDING 35

Bat Emergence/Re-entry Survey Recording Form – B35



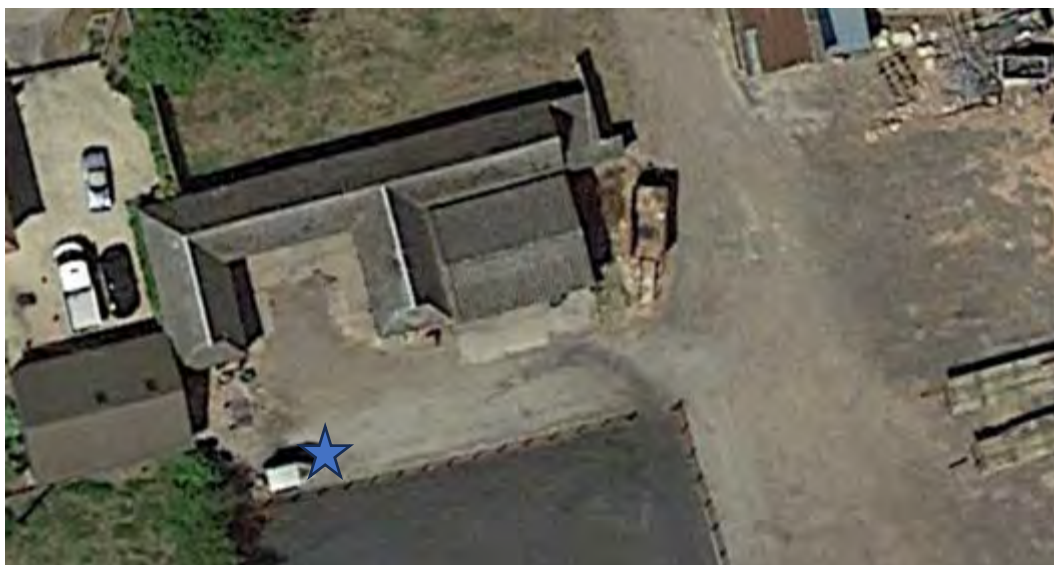
Name of Site: Baldock (Building 35) – 21.0045		Surveyor's position: Western elevation of B35, situated by the door.	
Date: 27/06/2023		Weather conditions: Warm, light breeze, 60% cloud, no rain,	
Temperature (start): 19		Temperature (end): 18	
Light conditions: Good light levels, no haze, mostly overcast		Insects flying? Yes, midges, moths, flies, large population of wasps entering and exiting roof tiles.	
Sunset time: 21:25 Sunrise time: N/A		Audio recording started at: 21:10 Audio recording ended at: 22:55 Camera recording started at: 21:10	
Time	Details of Bat Activity		
22:06	1 x Noctule flying high overhead travelling from the east to the west offsite		
22:10	1 x common pipistrelle flies in east from adjacent land.		
22:31	1 x common pipistrelle flies over		

BUILDING 39

BUILDING 40

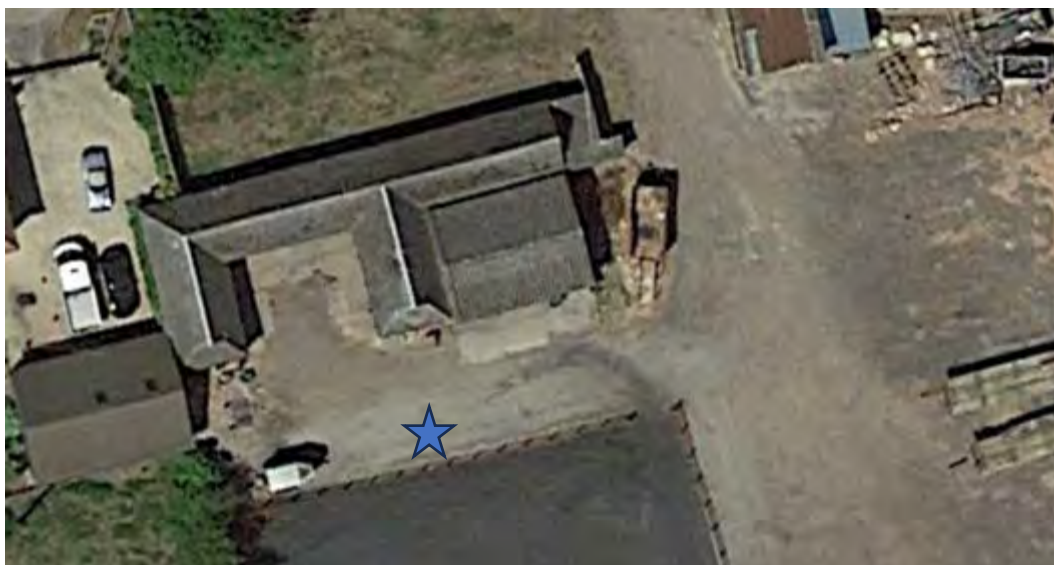
[illegible][illegible]

Bat Emergence/Re-entry Survey Recording Form – B40



Name of Site: Baldock (Building 40) – 21.0045		Surveyor's position: KD - south west & centre of stables	
Date: 25/07/2023		Weather conditions: overcast, no wind, 80% cloud	
Temperature (start): 19		Temperature (end): 18	
Light conditions: Good light levels		Insects flying? Yes, midges, moths, flies, cockchafer etc.	
Sunset time: 21:00 Sunrise time: N/A		Audio recording started at: 20:45 Audio recording ended at: 22:30 Camera recording started at: 20:45	
Time	Details of Bat Activity		
21:48-21:52	Common Pip contacts – feeding around courtyard		
21:54	Common Pip contact – feeding around courtyard		
21:59	Common Pip contact – feeding around courtyard		
22:01	Common Pip contact - unseen		
22:07	Common Pip contact - unseen		
22:13	Common Pip contact - unseen		
22:16	Common Pip contact - unseen		

Bat Emergence/Re-entry Survey Recording Form – B40



Name of Site: Baldock (Building 40) – 21.0045		Surveyor's position: RS - south east & centre of stables	
Date: 25/07/2023		Weather conditions: overcast, no wind, 80% cloud	
Temperature (start): 19		Temperature (end): 18	
Light conditions: Good light levels		Insects flying? Yes, midges, moths, flies, cockchafer etc.	
Sunset time: 21:00 Sunrise time: N/A		Audio recording started at: 20:45 Audio recording ended at: 22:30 Camera recording started at: 20:45	
Time	Details of Bat Activity		
21:48-21:52	Common Pip contacts – feeding around courtyard		
21:54	Common Pip contact – feeding around courtyard		
21:59	Common Pip contact – feeding around courtyard		
22:01	Common Pip contact - unseen		
22:07	Common Pip contact - unseen		
22:13	Common Pip contact - unseen		
22:16	Common Pip contact - unseen		

Bat Emergence/Re-entry Survey Recording Form – B40



Name of Site: Baldock (Building 40) – 21.0045		Surveyor's position: KD - south west & centre of stables
Date: 17/08/2023	Weather conditions: overcast, no wind, 80% cloud	
Temperature (start): 19		Temperature (end): 18
Light conditions: Good light levels		Insects flying? Yes, midges, moths, flies, cockchafer etc.
Sunset time: 20:20 Sunrise time: N/A		Audio recording started at: 20:05 Audio recording ended at: 21:50 Camera recording started at: 20:05
Time	Details of Bat Activity	
21:15	Common Pip contact - unseen	

Bat Emergence/Re-entry Survey Recording Form – B40



Name of Site: Baldock (Building 40) – 21.0045		Surveyor's position: RS - south east & centre of stables
Date: 17/08/2023	Weather conditions: overcast, no wind, 80% cloud	
Temperature (start): 19	Temperature (end): 18	
Light conditions: Good light levels	Insects flying? Yes, midges, moths, flies, cockchafer etc.	
Sunset time: 20:20 Sunrise time: N/A	Audio recording started at: 20:05 Audio recording ended at: 21:50 Camera recording started at: 20:05	
Time	Details of Bat Activity	
21:15	Common Pip contact - unseen	

[illegible]

Bat Emergence/Re-entry Survey Recording Form – B40



Name of Site: Baldock (Building 40) – 21.0045		Surveyor's position: walking around stables	
Date: 23/05/2025		Weather conditions: Sunny, slight breeze, 70% cloud	
Temperature (start): 16		Temperature (end): 14	
Light conditions: Good light levels, no haze, mostly sunny with some cloud		Insects flying? Yes, midges, moths, flies, cockchafers etc.	
Sunset time: 21:00 Sunrise time: N/A		Audio recording started at: 20:45 Audio recording ended at: 22:30 Camera recording started at: 20:45	
Time	Details of Bat Activity		
21:45	Common Pip contact - unseen		
22:06	Common Pip contact - unseen		

BUILDING 44



Bat Emergence/Re-entry Survey Recording Form – B44

Name of Site: Baldock (44) – 21.0045		Surveyor's position: KD – south and eastern elevation.	
Date: 20/07/2023		Weather conditions: showers before survey, overcast, no wind	
Temperature (start): 15		Temperature (end): 15	
Light conditions: Good light levels, no haze, mostly sunny with some cloud		Insects flying? Yes, midges, moths, flies, etc.	
Sunset time: 21:08 Sunrise time: N/A		Audio recording started at: 20:55 Audio recording ended at: 22:35 Camera recording started at: 20:55	
Time	Details of Bat Activity		
21:54	Common pip fly by heading south - seen		
22:19	Common pip contact – unseen		



Bat Emergence/Re-entry Survey Recording Form - B44

Name of Site: Baldock (44) – 21.0045		Surveyor's position: RS – north and western elevation.
Date: 20/07/2023	Weather conditions: showers before survey, overcast, no wind	
Temperature (start): 15		Temperature (end): 15
Light conditions: Good light levels, no haze, mostly sunny with some cloud		Insects flying? Yes, midges, moths, flies, etc.
Sunset time: 21:08 Sunrise time: N/A		Audio recording started at: 20:55 Audio recording ended at: 22:35 Camera recording started at: 20:55
Time	Details of Bat Activity	
21:54	Common pip fly by heading south - seen	
22:19	Common pip contact – unseen	
22:22	Common pip contact – unseen	

BUILDING 45

Time	Details of Bat Activity
21:56	45 pip across back of house - from neighbour's garden towards KD & KS (east to west.)
22:19	45 pip behind me - flew through. No emergence.

[illegible]

Bat Emergence/Re-entry Survey Recording Form – B45



Name of Site: Baldock (Building 45) – 21.0045		Surveyor's position: KD – west elevation	
Date: 01/08/2023		Weather conditions: Clear, overcast, light breeze	
Temperature (start): 17		Temperature (end): 16	
Light conditions: Good light levels		Insects flying? Yes, midges, moths, flies, cockchafers etc.	
Sunset time: 20:50 Sunrise time: N/A		Audio recording started at: 20:35 Audio recording ended at: 22:20 Camera recording started at: 20:35	
Time	Details of Bat Activity		
21:06	Leisler fly by unseen		
21:19	Leisler fly by unseen		
21:24	Leisler fly by unseen		
21:29	Leisler fly by unseen		
21:32	Leisler fly by unseen		
21:33	45 pip fly by unseen		
21:35	Leisler fly by unseen		
21:40	45 pip fly by seen flying north		
21:51	Leisler fly by unseen		
21:51	45 pip unseen		
21:53	45 pip fly by seen flying North		
21:54	45 pip seen feeding by house		
22:01	45 pip seen feeding by house		

Bat Emergence/Re-entry Survey Recording Form – B45



Name of Site: Baldock (Building 45) – 21.0045		Surveyor's position: RS – north elevation of house	
Date: 01/08/2023		Weather conditions: Clear, overcast, light breeze	
Temperature (start): 17		Temperature (end): 16	
Light conditions: Good light levels		Insects flying? Yes, midges, moths, flies, cockchafers etc.	
Sunset time: 20:50 Sunrise time: N/A		Audio recording started at: 20:35 Audio recording ended at: 22:20 Camera recording started at: 20:35	
Time	Details of Bat Activity		
21:06	Leisler fly by unseen		
21:13	Leisler fly by unseen		
21:19	Leisler fly by unseen		
21:20	Leisler fly by unseen		
21:31	Leisler fly by unseen		
21:24	Leisler fly by unseen		
21:29	Leisler fly by unseen		
21:33	Leisler fly by unseen		
21:34	Leisler fly by unseen		
21:35	Leisler fly by unseen		
21:40	45 pip fly by seen flying over and behind		
21:51	Leisler fly by unseen		
21:51	45 pip unseen		
21:53	45 pip fly by seen		
21:55	45 pip seen feeding		
22:01	45 pip seen feeding		
22:08	Leisler fly by unseen		

[illegible]

Bat Emergence/Re-entry Survey Recording Form – B45



Name of Site: Baldock (Building 45) – 21.0045		Surveyor's position: walking around house
Date: 23/05/2025	Weather conditions: Sunny, slight breeze, 70% cloud	
Temperature (start): 16	Temperature (end): 14	
Light conditions: Good light levels, no haze, mostly sunny with some cloud	Insects flying? Yes, midges, moths, flies, cockchafer etc.	
Sunset time: 21:00 Sunrise time: N/A	Audio recording started at: 20:45 Audio recording ended at: 22:30 Camera recording started at: 20:45	
Time	Details of Bat Activity	
22:00	45 pip unseen	

BUILDING 48



Bat Emergence/Re-entry Survey Recording Form – B48

Name of Site: Baldock (48) – 21.0045		Surveyor's position: KD – south covering centre courtyard.	
Date: 05/07/2023		Weather conditions: Damp, 1 NW, 30% cloud, no rain, sunny spells	
Temperature (start): 18		Temperature (end): 16	
Light conditions: Good light levels, no haze, mostly sunny with some cloud		Insects flying? Yes, midges, moths, flies, etc.	
Sunset time: 21:19 Sunrise time: N/A		Audio recording started at: 21:03 Audio recording ended at: 22:40 Camera recording started at: 21:03	
Time	Details of Bat Activity		
21:53	Leisler's contact – unseen detected only.		
22:14	Leisler's contact – unseen detected only.		



Bat Emergence/Re-entry Survey Recording Form – B48

Name of Site: Baldock (48) – 21.0045		Surveyor's position: RS – Eastern elevation	
Date: 05/07/2023		Weather conditions: Damp, 1 NW, 30% cloud, no rain, sunny spells	
Temperature (start): 18		Temperature (end): 16	
Light conditions: Good light levels, no haze, mostly sunny with some cloud		Insects flying? Yes, midges, moths, flies, etc.	
Sunset time: 21:19 Sunrise time: N/A		Audio recording started at: 21:03 Audio recording ended at: 22:40 Camera recording started at: 21:03	
Time	Details of Bat Activity		
21:53	Leisler's contact – unseen detected only.		
22:15	Leisler's contact – unseen detected only.		
22:16	Leisler's contact – unseen detected only.		



Bat Emergence/Re-entry Survey Recording Form – B48

Name of Site: Baldock (48) – 21.0045		Surveyor's position: BD – North western elevation	
Date: 10/07/2023		Weather conditions: Damp, 1 NW, 30% cloud, no rain, sunny spells	
Temperature (start): 18		Temperature (end): 16	
Light conditions: Good light levels, no haze, mostly sunny with some cloud		Insects flying? Yes, midges, moths, flies, etc.	
Sunset time: 21:19 Sunrise time: N/A		Audio recording started at: 21:03 Audio recording ended at: 22:40 Camera recording started at: 21:03	
Time	Details of Bat Activity		
21:08	Natters contact – unseen detected only.		
21:25	Noctule contact – unseen		
21:25	Noctule contact – unseen		
21:53	Leisler's contact – unseen detected only.		
22:03	Leisler's contact – unseen detected only.		
22:14	Leisler's contact – unseen detected only.		
22:25	Common pip contact – unseen detected only.		



Bat Emergence/Re-entry Survey Recording Form – B48

Name of Site: Baldock (48) – 21.0045		Surveyor's position: BD – North western elevation	
Date: 10/07/2023		Weather conditions: Damp, 1 NW, 30% cloud, no rain, sunny spells	
Temperature (start): 18		Temperature (end): 16	
Light conditions: Good light levels, no haze, mostly sunny with some cloud		Insects flying? Yes, midges, moths, flies, etc.	
Sunset time: 21:19 Sunrise time: N/A		Audio recording started at: 21:03 Audio recording ended at: 22:40 Camera recording started at: 21:03	
Time	Details of Bat Activity		
21:52	Leisler's contact – unseen detected only.		
22:14	Leisler's contact – unseen detected only.		



Bat Emergence/Re-entry Survey Recording Form – B48

Name of Site: Baldock (48) – 21.0045		Surveyor's position: HR – northwest, covering north and western exterior .	
Date: 06/09/2023		Weather conditions: Dry, 1WSW, 40% cloud, no rain, sunny spells	
Temperature (start): 25		Temperature (end): 22	
Light conditions: Good light levels, no haze, mostly sunny with some cloud		Insects flying? Yes, midges, moths, flies, etc.	
Sunset time: 19:35 Sunrise time: N/A		Audio recording started at: 19:25 Audio recording ended at: 20:50 Camera recording started at: 19:25	
Time	Details of Bat Activity		
20:03	Com pip, comes from the courtyard, over build to surveyors point, foraging in the corridor for a couple minutes.		
20:06	Com pip, comes from the courtyard, over build to surveyors point, foraging in the corridor for a couple minutes		
20:07	Com pip, comes from the northern corridor, foraging at corridor for a couple minutes.		
20:09	2 x com pip, comes from the courtyard, over build to surveyors point, foraging in the corridor for a couple minutes.		
20:17	Noctule contact - unseen		
20:23	Com pip flying over the stables from courtyard, foraging in the corridor for a minute.		
20:26	Com pip flying over the stables from courtyard, foraging in the corridor for a minute.		
20:40	Leislars contact - unseen		
20:45	Noctule contact – unseen		
20:46	Com pip flying over the stables from courtyard, foraging in the corridor for a minute.		
20:47	Noctule contact - unseen		



Bat Emergence/Re-entry Survey Recording Form – B48

Name of Site: Baldock (48) – 21.0045		Surveyor's position: KD – south covering centre courtyard.
Date: 06/09/2023	Weather conditions: Warm, no cloud, no breeze	
Temperature (start): 27		Temperature (end): 26
Light conditions: Good light levels, no haze		Insects flying? Yes, midges, moths, flies, etc.
Sunset time: 19:35 Sunrise time: N/A		Audio recording started at: 19:20 Audio recording ended at: 21:00 Camera recording started at: 19:20
Time	Details of Bat Activity	
20:03-20:06	45 pip contact – seen feeding within courtyard	
20:08-20:10	45 pip contact – seen feeding within courtyard	
20:16	Noctule contact - unseen	
20:17	Noctule contact - unseen	
20:20	45 pip contact – seen feeding within courtyard	
20:21	Noctule contact - unseen	
20:22-20:23	Leisler contact - unseen	
20:23-20:26	45 pip contact - unseen	
20:30	Leisler contact - unseen	
20:32-20:33	45 pip contact - unseen	
20:37	45 pip contact - unseen	
20:40	Leisler contact - unseen	
20:41-20:43	45 pip contact - unseen	
20:43	Leisler contact - unseen	
20:45-20:46	Leisler contact - unseen	
20:46-20:47	45 pip contact - unseen	
20:47	Leisler contact - unseen	



Bat Emergence/Re-entry Survey Recording Form – B48

Name of Site: Baldock (48) – 21.0045		Surveyor's position: RS – eastern elevation.	
Date: 06/09/2023		Weather conditions: Warm, no cloud, no breeze	
Temperature (start): 27		Temperature (end): 26	
Light conditions: Good light levels, no haze		Insects flying? Yes, midges, moths, flies, etc.	
Sunset time: 19:35 Sunrise time: N/A		Audio recording started at: 19:20 Audio recording ended at: 21:00 Camera recording started at: 19:20	
Time	Details of Bat Activity		
20:04-20:10	45 pip contact – seen feeding		
20:21	Noctule contact - unseen		
20:22-20:23	Leisler contact - unseen		
20:25-20:26	45 pip contact – seen briefly passing		
20:28	45 pip contact - unseen		
20:32	45 pip contact - unseen		
20:36	45 pip contact - unseen		
20:40	Leisler contact - unseen		
20:41-20:42	45 pip contact - unseen		
20:44-20:47	Leisler contact - unseen		
20:46-20:47	45 pip contact - unseen		
20:48	Leisler contact - unseen		
20:49	45 pip contact - unseen		

Surveyor Name: Emma	lpad used: 1 2 (my own) (please circle)
Name of Site: Bldg. 48, Royston	
Surveyor Position: W & S elevations	
Date: 6/9/23	Weather conditions: 1. warm, still, cloudless
Temperature (start): 25°C	Temperature (end): 23°C
Light conditions: Excellent	Insects flying? Yes
Sunset/sunrise time: 19:37	Audio Recording started at: 19:25

Time	Details of Bat Activity
20:00	Unseen 4S pip contact.
20:10	4S pip arrives from the west e flies up & down W elevation of building - did not emerge.
20:17	Noctule - unseen contact.
20:23	Noctule unseen contact.
20:24	unseen 4S pip contact.
20:40	Noctule - unseen contact. NO EMERGENCE
20:46	Lebber's - unseen contact.



Bat Emergence/Re-entry Survey Recording Form – B48

Name of Site: Baldock (48) – 21.0045		Surveyor's position: KD	
Date: 06/06/2025		Weather conditions: dry, warm, sunny	
Temperature (start): 18		Temperature (end): 16	
Light conditions: Good light levels, no haze, mostly sunny with some cloud		Insects flying? Yes, midges, moths, flies, etc.	
Sunset time: 21:16 Sunrise time: N/A		Audio recording started at: 21:00 Audio recording ended at: 22:30 Camera recording started at: 21:00	
Time	Details of Bat Activity		
22:00	Leisler's contact – unseen detected only.		
22:11	Common pip contact – unseen detected only.		

BUILDING 53

Bat Emergence/Re-entry Survey Recording Form – B53



Name of Site: Baldock (B53) – 21.0045		Surveyor's position: B53 – north western elevation	
Date: 07/08/2023		Weather conditions: cloudy, some wind, sunny spells	
Temperature (start): 18		Temperature (end): 17	
Light conditions: Good light levels		Insects flying? Yes, midges, moths, flies, etc.	
Sunset time: 20:40		Audio recording started at: 20:25	
Sunrise time: N/A		Audio recording ended at: 22:10	
		Camera recording started at: 20:25	
Time	Details of Bat Activity		
21:20	45 pip contact seen fly by		
21:26	45 pip contact seen fly by		
21:31	45 pip contact seen fly by		
21:32	45 pip contact seen fly by		
21:33	45 pip contact seen fly by		
21:34	45 pip contact seen fly by		

Bat Emergence/Re-entry Survey Recording Form – B53



Name of Site: Baldock (B53) – 21.0045		Surveyor's position: B53 - southern elevation	
Date: 07/08/2023		Weather conditions: cloudy, some wind, sunny spells	
Temperature (start): 18		Temperature (end): 17	
Light conditions: Good light levels		Insects flying? Yes, midges, moths, flies, etc.	
Sunset time: 20:40		Audio recording started at: 20:25	
Sunrise time: N/A		Audio recording ended at: 22:10	
		Camera recording started at: 20:25	
Time	Details of Bat Activity		
21:16	45 pip contact seen fly by		
21:20	45 pip contact seen fly by		
21:21	Noctule contact - unseen		
21:22	45 pip contact seen fly by		
21:32	45 pip contact seen fly by		
21:33	45 pip contact seen fly by		
20:40	45 pip contact seen fly by		
20:43	45 pip contact seen fly by		

BUILDING 55

Bat Emergence/Re-entry Survey Recording Form – B55



Name of Site: Baldock (55) – 21.0045		Surveyor's position: KD –south west elevation within courtyard	
Date: 29/08/2023		Weather conditions: windy, overcast 80% cloud	
Temperature (start): 18		Temperature (end): 15	
Light conditions: Good light levels		Insects flying? Yes, midges, moths, flies, etc.	
Sunset time: 19:52		Audio recording started at: 19:45	
Sunrise time: N/A		Audio recording ended at: 21:15	
		Camera recording started at: 19:45	
Time	Details of Bat Activity		
20:10	Noctule contact - unseen		
20:20	Noctule contact - unseen		
20:23	Noctule contact - unseen		
20:24	Noctule contact - unseen		
20:25-20:27	Leisler contact - unseen		
20:30	Leisler contact - unseen		
20:30	Common pip fly by		
20:31	Common pip fly by		
20:37	Leisler contact - unseen		
20:38	Leisler contact – unseen		
20:40	Leisler contact – unseen		
20:43	Leisler contact – unseen		

Bat Emergence/Re-entry Survey Recording Form – B55



Name of Site: Baldock (55) – 21.0045		Surveyor's position: RS –north east elevation
Date: 29/08/2023		Weather conditions: windy, overcast 80% cloud
Temperature (start): 18		Temperature (end): 15
Light conditions: Good light levels		Insects flying? Yes, midges, moths, flies, etc.
Sunset time: 19:52		Audio recording started at: 19:45
Sunrise time: N/A		Audio recording ended at: 21:15
		Camera recording started at: 19:45
Time	Details of Bat Activity	
20:10	Noctule contact - unseen	
20:20	45 pip contact seen fly by	
20:21	45 pip contact seen fly by	
20:24	Noctule contact - unseen	
20:25-20:27	Leisler contact - unseen	
20:30	Leisler contact - unseen	
20:40	Leisler contact – unseen	
20:43	Leisler contact – unseen	

BUILDING 56



Bat Emergence/Re-entry Survey Recording Form – B56

Name of Site: Baldock (56) – 21.0045		Surveyor's position: HR –Northen eastern corner of stable block	
Date: 13/07/2023		Weather conditions: Damp, 1 NW, 30% cloud, no rain, sunny spells	
Temperature (start): 15		Temperature (end): 15	
Light conditions: Good light levels, no haze, mostly sunny with some cloud		Insects flying? Yes, midges, moths, flies, etc.	
Sunset time: 21:15 Sunrise time: N/A		Audio recording started at: 21:00 Audio recording ended at: 22:30 Camera recording started at: 21:00	
Time	Details of Bat Activity		
21:35	Leisler's noctule flyby east to west		



Bat Emergence/Re-entry Survey Recording Form – B56

Name of Site: Baldock (56) – 21.0045		Surveyor's position: KD –eastern elevation within courtyard	
Date: 13/07/2023		Weather conditions: Damp, 1 NW, 30% cloud, no rain, sunny spells	
Temperature (start): 15		Temperature (end): 15	
Light conditions: Good light levels, no haze, mostly sunny with some cloud		Insects flying? Yes, midges, moths, flies, etc.	
Sunset time: 21:15 Sunrise time: N/A		Audio recording started at: 21:00 Audio recording ended at: 22:30 Camera recording started at: 21:00	
Time	Details of Bat Activity		
21:46	Common pip fly by, came from behind (residential)		
21:50	Common pip seen feeding in courtyard		



Bat Emergence/Re-entry Survey Recording Form – B56

Name of Site: Baldock (56) – 21.0045		Surveyor's position: RS – southern elevation and gable end of shorter section.	
Date: 13/07/2023		Weather conditions: Damp, 1 NW, 30% cloud, no rain, sunny spells	
Temperature (start): 15		Temperature (end): 15	
Light conditions: Good light levels, no haze, mostly sunny with some cloud		Insects flying? Yes, midges, moths, flies, etc.	
Sunset time: 21:15 Sunrise time: N/A		Audio recording started at: 21:00 Audio recording ended at: 22:30 Camera recording started at: 21:00	
Time	Details of Bat Activity		
21:46	Common pip fly by heading west		
21:49	Common pip contact – fly by east		

[illegible]



Bat Emergence/Re-entry Survey Recording Form – B56

Name of Site: Baldock (56) – 21.0045		Surveyor's position: KD –eastern elevation within courtyard	
Date: 24/08/2023		Weather conditions: humid and warm, rain showers before survey	
Temperature (start): 21		Temperature (end): 19	
Light conditions: Good light levels, no haze, mostly sunny with some cloud		Insects flying? Yes, midges, moths, flies, etc.	
Sunset time: 20:07 Sunrise time: N/A		Audio recording started at: 19:55 Audio recording ended at: 21:40 Camera recording started at: 19:55	
Time	Details of Bat Activity		
20:45	Common pip fly by, came from behind		
20:57	Common pip seen feeding in courtyard		
20:58	Noctule contact - unseen		
21:01	Common pip fly by		
21:09	Common pip fly by		
21:13	Common pip fly by		
21:15	Common pip fly by		
21:16	Common pip fly by		



Bat Emergence/Re-entry Survey Recording Form – B56

Name of Site: Baldock (56) – 21.0045		Surveyor's position: RS –north west elevation within courtyard	
Date: 24/08/2023		Weather conditions: humid and warm, rain showers before survey	
Temperature (start): 21		Temperature (end): 19	
Light conditions: Good light levels, no haze, mostly sunny with some cloud		Insects flying? Yes, midges, moths, flies, etc.	
Sunset time: 20:07 Sunrise time: N/A		Audio recording started at: 19:55 Audio recording ended at: 21:40 Camera recording started at: 19:55	
Time	Details of Bat Activity		
20:45	Common pip fly by, came from behind		
20:57	Common pip seen feeding in courtyard		
20:58	Noctule contact - unseen		
21:01	Common pip fly by		
21:09	Common pip fly by		
21:13	Common pip fly by		
21:15	Common pip fly by		
21:16	Common pip fly by		



Bat Emergence/Re-entry Survey Recording Form – B56

Name of Site: Baldock (56) – 21.0045		Surveyor's position: KD –eastern elevation within courtyard	
Date: 06/06/2025		Weather conditions: dry, warm, sunny	
Temperature (start): 18		Temperature (end): 16	
Light conditions: Good light levels, no haze, mostly sunny with some cloud		Insects flying? Yes, midges, moths, flies, etc.	
Sunset time: 21:16 Sunrise time: N/A		Audio recording started at: 21:00 Audio recording ended at: 22:30 Camera recording started at: 21:00	
Time	Details of Bat Activity		
21:55	Common pip fly by		

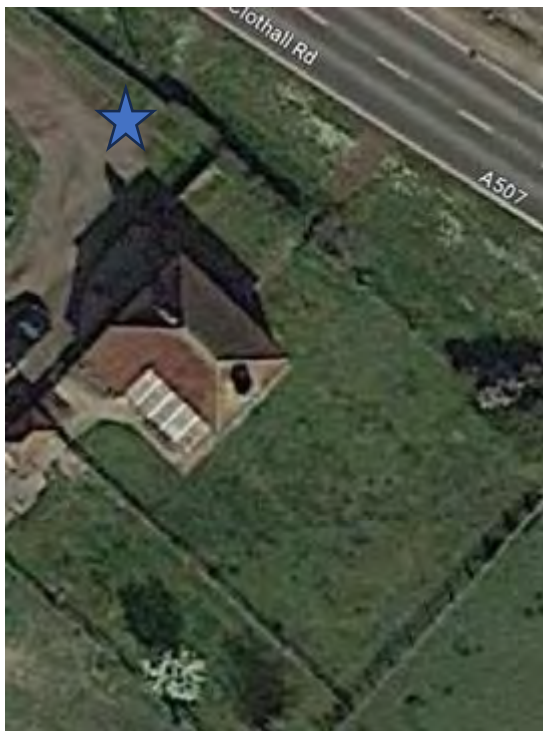
BUILDING 59

Bat Emergence/Re-entry Survey Recording Form – B59



Name of Site: Baldock (59) – 21.0045		Surveyor's position: HR – North eastern elevation	
Date: 27/07/2023		Weather conditions: Damp, 2 ENE, 40% cloud, no rain, sunny spells	
Temperature (start): 19		Temperature (end): 17	
Light conditions: Good light levels, no haze, mostly sunny with some cloud		Insects flying? Yes, midges, moths, flies, etc.	
Sunset time: 21:00 Sunrise time: N/A		Audio recording started at: 20:45 Audio recording ended at: 22:10 Camera recording started at: 20:45	
Time	Details of Bat Activity		
21:34	Unidentified bat commuting in distant west, moving south to north		
21:50	1 x pipistrelle foraging within garden south of viewing point before moving further south		
21:58	1 x pipistrelle foraging within garden south of viewing point before moving further south		

Bat Emergence/Re-entry Survey Recording Form – B59



Name of Site: Baldock (59) – 21.0045		Surveyor's position: KD – south eastern elevation	
Date: 27/07/2023		Weather conditions: Damp, 2 ENE, 40% cloud, no rain, sunny spells	
Temperature (start): 19		Temperature (end): 17	
Light conditions: Good light levels, no haze, mostly sunny with some cloud		Insects flying? Yes, midges, moths, flies, etc.	
Sunset time: 21:00 Sunrise time: N/A		Audio recording started at: 20:45 Audio recording ended at: 22:10 Camera recording started at: 20:45	
Time	Details of Bat Activity		
21:15	Noctule contact unseen		
21:26	Noctule contact unseen		
21:44	Noctule contact unseen		
21:49	45 pip contact unseen		
21:59	Noctule contact unseen		

Bat Emergence/Re-entry Survey Recording Form – B59



Name of Site: Baldock (59) – 21.0045		Surveyor's position: RS – south western elevation
Date: 27/07/2023	Weather conditions: Damp, 2 ENE, 40% cloud, no rain, sunny spells	
Temperature (start): 19		Temperature (end): 17
Light conditions: Good light levels, no haze, mostly sunny with some cloud		Insects flying? Yes, midges, moths, flies, etc.
Sunset time: 21:00 Sunrise time: N/A		Audio recording started at: 20:45 Audio recording ended at: 22:10 Camera recording started at: 20:45
Time	Details of Bat Activity	
21:15	Noctule contact unseen	
21:25	Noctule contact unseen	
21:44	Noctule contact unseen	
21:49	45 pip contact unseen	
21:58	45 pip contact unseen	

TN17 – FIELD MAPLE



Bat Emergence/Re-entry Survey Recording Form – TN17

Name of Site: Baldock (TN17 Field Maple) – 21.0045		Surveyor's position: KD – north west of tree	
Date: 05/07/2023	Weather conditions: Damp, 1 NW, 30% cloud, no rain, sunny spells		
Temperature (start): 18		Temperature (end): 16	
Light conditions: Good light levels, no haze, mostly sunny with some cloud		Insects flying? Yes, midges, moths, flies, etc.	
Sunset time: 21:21 Sunrise time: N/A		Audio recording started at: 21:05 Audio recording ended at: 22:45 Camera recording started at: 21:05	
Time	Details of Bat Activity		
21:47	Noctule contact – unseen detected only.		
22:01	Common pip contact – unseen detected only.		

Bat Emergence/Re-entry Survey Recording Form – TN17



Name of Site: Baldock (TN17) – 21.0045		Surveyor's position: Field maple	
Date: 05/07/2023		Weather conditions: Sunny, Clear, rain earlier in the day	
Temperature (start): 17		Temperature (end): 15	
Light conditions: Good light levels		Insects flying? Yes, midges, moths, flies, etc.	
Sunset time: 21:22 Sunrise time: N/A		Audio recording started at: 21:15 Audio recording ended at: 22:50 Camera recording started at: 21:15	
Time	Details of Bat Activity		
21:55	Noctule contact - unseen		
22:07	45 pip contact – commuting along hedgerow		
22:12	45 pip contact – commuting along hedgerow		
22:15	Noctule contact - unseen		
22:28	45 pip contact - unseen		
22:34	45 pip contact - useen		

TN39 – MATURE ELDER

Bat Emergence/Re-entry Survey Recording Form – TN39



Name of Site: Baldock (TN39) – 21.0045		Surveyor's position: Mature elder
Date: 03/08/2023	Weather conditions: cloudy, some wind, sunny spells	
Temperature (start): 18	Temperature (end): 17	
Light conditions: Good light levels	Insects flying? Yes, midges, moths, flies, etc.	
Sunset time: 20:47	Audio recording started at: 20:35	
Sunrise time: N/A	Audio recording ended at: 22:10	
	Camera recording started at: 20:35	
Time	Details of Bat Activity	
21:15	Noctule contact - unseen	
21:23-21:28	45 pip contacts	
21:32	45 pip contact seen fly by	
21:45	Noctule contact - unseen	
21:47-21:54	45 pip contacts	
21:56	45 pip contact seen fly by	
21:59	Noctule contact - unseen	
22:05	45 pip contact - unseen	
22:08	45 pip contact - unseen	

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