

**Land off Blackmoorfoot Road,
Huddersfield**

Bat Emergence Survey Report

**Vistry Yorkshire, Miller
Homes & Countryside
Partnerships
Limited**

October 2024

Ecus Ltd

Report to: Vistry Yorkshire, Miller Homes & Countryside Partnerships Limited

Report Title: Land off Blackmoorfoot Road, Huddersfield – Bat Emergence Survey Report

Version: V1.0
Issue Date: October 2024
Report Ref: 20899

Originated By:

Reviewed By: **James Storey**
Consultant Ecologist Date: 18.09.2024

Approved By: **Daniel Best**
Associate Director of Ecology Date: 03.10.2024

Sarah Thresher
Principal Ecologist Date: 10.10.2024

Prepared by:
Unit 4, President Buildings, Savile St E, Sheffield S4 7UQ
01142 669 292

Version	Author	Description	Date
V0.1	James Storey	Initial Draft	18.09.2024
V0.2	Daniel Best	Quality Assurance (QA) review 1	03.10.2024
V0.3	James Storey	Amends following QA1	09.10.2024
V0.4	Sarah Thresher	QA2	10.10.2024
V1.0	James Storey	Final Version for Issue	10.10.2024

The report and the site assessments carried out by Ecus on behalf of the client in accordance with the agreed terms of contract and/or written agreement form the agreed Services. The Services were performed by Ecus with the skill and care ordinarily exercised by a reasonable Environmental Consultant at the time the Services were performed. Further, and in particular, the Services were performed by Ecus taking into account the limits of the scope of works required by the client, the time scale involved and the resources, including financial and manpower resources, agreed between Ecus and the client.

Other than that expressly contained in the paragraph above, Ecus provides no other representation or warranty whether express or implied, in relation to the services.

This report is produced exclusively for the purposes of the client. Ecus is not aware of any interest of or reliance by any party other than the client in or on the services. Unless expressly provided in writing, Ecus does not authorise, consent or condone any party other than the client relying upon the services provided. Any reliance on the services or any part of the services by any party other than the client is made wholly at that party's own and sole risk and Ecus disclaims any liability to such parties.

This report is based on site conditions, regulatory or other legal provisions, technology or economic conditions at the time of the Service provision. These conditions can change with time and reliance on the findings of the Services under changing conditions should be reviewed.

Ecus accepts no responsibility for the accuracy of third party data used in this report.

Contents

EXECUTIVE SUMMARY	IV
1. INTRODUCTION	1
1.1 BACKGROUND.....	1
2. METHODOLOGY	2
2.1 BAT EMERGENCE/RE-ENTRY SURVEYS	2
2.2 SURVEY LIMITATIONS	4
3. FINDINGS AND EVALUATION	6
3.1 BAT EMERGENCE/RE-ENTRY SURVEY RESULTS	6
4. ASSESSMENT AND CONCLUSIONS	8
4.1 LEGISLATION.....	8
4.2 PROPOSALS.....	8
4.3 ASSESSMENT.....	8
4.4 RECOMMENDATIONS	9
5. REFERENCES	12
FIGURE 1: BUILDING SUITABILITY MAP	13
FIGURES 2- 17: SURVEY RESULTS	14
APPENDIX 1: SURVEY DETAILS	15
APPENDIX 2: DARKEST POINT PHOTOGRAPHS OF NIGHT VISION AIDS (NVAS)	16

Executive Summary

Ecus Limited (Ltd) was commissioned by Vistry Yorkshire, Miller Homes and Countryside Partnerships Limited in March 2024 to undertake a suite of bat emergence surveys in relation to the proposed residential development at land off Blackmoorfoot Road, Huddersfield (central Ordnance Survey National Grid Reference (OS NGR): SE 11370 14757), hereafter referred to as 'the Site'.

Proposals for the Site are taken from Nineteen 47 '*Blackmoorfoot Road, Huddersfield – Technical Planning Layout*' (Drawing no. 2114_008D) and are understood to comprise a residential development of 700 properties, a care home and local centre with associated landscaping for gardens and areas of Public Open Space (POS). All buildings at the Site will be demolished to facilitate the development.

A Preliminary Roost Assessment (PRA) was undertaken by Ecus Ltd in October 2023 (Ecus Ltd. '*Blackmoorfoot – Preliminary Roost Assessment V1.0*', report reference 20899, dated February 2024) (PRA, Ecus 2024) which identified a total of 73 buildings as displaying suitability for roosting bats following good practice guidelines (Collins, 2023). A further four buildings that were found as part of ongoing surveys at the Site during 2024 were identified as displaying suitability for roosting bats. As such, further survey comprising of a suite of bat emergence and re-entry surveys were undertaken between May and September 2024 to determine the presence or likely absence of roosting bats within buildings and characterise any bat roosts present.

A previous PRA undertaken at the Site followed by subsequent bat emergence surveys of the buildings were undertaken by Tyler Grange Group Ltd in 2017 ('*Land off Blackmoorfoot Road and Felks Stile Road, Huddersfield - Ecological Addendum Note*', dated August 2020, Report Ref: 10925_R05), which identified the Bungalow building to contain a common pipistrelle *Pipistrellus pipistrellus* day roost.

One roost location was recorded for the buildings surveyed at the Site during the emergence and re-entry surveys undertaken between May and September 2024, which pertained to a common pipistrelle day roost located within Building 4 & 26. No bat roosts were recorded for the other buildings present across the Site.

Due to the proposals resulting in the demolition of B4 & B26 and destruction of a common pipistrelle day roost, a European Protected Species (EPS) mitigation licence issued by Natural England will be required to allow demolition of these buildings to lawfully proceed.

The licence application will include a bat mitigation strategy designed to maintain the Favourable Conservation Status (FCS) of the identified roost and will detail measures to minimise disturbance and avoid death or injury to bats during the demolition process. These measures will include:

- Timing the works appropriately to ensure the least impact upon bats, namely undertaking the demolition of B4 & B26 to avoid the recognised bat hibernation period (November to March inclusive) where feasible;
- Pre-demolition inspection as appropriate;
- Exclusion of the identified roost prior to demolition, where feasible
- Supervision of demolition works by a licensed bat ecologist who is named or accredited to act under the bat mitigation licence for the Site;
- All contractors working on the project to be briefed on the presence of bats and appropriate working practices by the Named Ecologist or an Accredited Agent through a pre-works Toolbox Talk (TBT) (see section 4.4.2);
- Temporary bat roosting provision, such as bat boxes erected on retained trees on Site, for the relocation of any bats encountered during the supervised works; and,
- Long term mitigation to be installed to ensure continuous roost provision for bats. The type of mitigation required would be informed with reference to the '*UK Bat Mitigation Guidelines: a guide to impact assessment, mitigation and compensation for developments affecting bats*' (Reason, P.F. and Wray, S, 2023), but the provision of integrated bat boxes into newly built properties is likely to be adequate (see section 4.4.5).

Whilst the likely absence of bat roosts has been determined for all other buildings at the Site, the presence of bats roosting in the buildings in the future cannot be ruled out due to the mobile nature of bats, the number of buildings with suitable roosting features at the Site, and the historic record of a common pipistrelle day roost identified within the Bungalow building. As such, it is recommended that demolition works Site wide are undertaken in accordance with a Bat Reasonable Avoidance Method Statement (Bat RAM MS) in order to minimise the risk of committing an offence under the relevant legislation.

The Bat RAM MS should recommend a pre-works TBT, sensitive working measures during building demolition (where appropriate), on-call ecologist support as required, and avoidance of demolition during the hibernation period wherever possible. In the unlikely event that any evidence of roosting bats is identified or suspected at any time during the demolition works, such as live or dead bats, droppings and feeding remains, works should cease immediately (where safe and practical to do so). It is likely that the on-call ecologist would need to attend Site before any works recommence to determine how works may proceed legally, which may include the requirement for additional mitigation licencing issued by Natural England where appropriate.

It is recommended that bat roosting provision is included within all of the newly built properties to compensate for the loss of the confirmed common pipistrelle day roost, other PRFs associated with the Site, and contribute towards overall ecological enhancement at the Site. A combination of integrated boxes (e.g. Habibat integrated bat boxes) and ridge boxes (e.g. Manthorpe Bat Ridge Roost) at a ratio of 50:50

is a preferred option relative to externally mounted boxes as they are less susceptible to damage. Bat boxes should be positioned at eaves level (at least 4 m above the ground where possible) facing suitable foraging habitat in locations away from direct and indirect lighting, as far as possible. Final placements should be agreed with an ecologist at the design stage.

Mitigation measures should be implemented whereby the lighting and layout of the proposed development (as well as any temporary lighting to be used during the construction phase) will be designed to avoid light-spill onto suitable retained habitats and created greenspace to safeguard these habitats as foraging, commuting and potential roosting resources. Lighting design should follow current guidance from the Bat Conservation Trust 'Bats and Artificial Lighting at Night' (Guidance note 08/23).

The results of these surveys are valid for a period of 12 months, as such, if works to demolish the buildings have not commenced by September 2025, it is recommended that an update PRA and bat emergence survey(s) are undertaken to account for any potential changes in the suitability of the buildings for roosting bats. Any mitigation licence application requires survey information to be obtained during the most recent survey season prior to application.

1. Introduction

1.1 Background

- 1.1.1 Ecus Limited (Ltd) was commissioned by Vistry Yorkshire, Miller Homes and Countryside Partnerships Limited in March 2024 to undertake a suite of bat emergence surveys in relation to the proposed development at land off Blackmoorfoot Road, Huddersfield (central Ordnance Survey National Grid Reference (OS NGR): SE 11370 14757), hereafter referred to as 'the Site'.
- 1.1.2 Proposals for the Site are taken from Nineteen 47 '*Blackmoorfoot Road, Huddersfield – Technical Planning Layout*' (Drawing no. 2114_008D) and are understood to comprise a residential development of 700 properties, a care home and local centre with associated landscaping for gardens and areas of Public Open Space (POS). All buildings at the Site will be demolished to facilitate the development.
- 1.1.3 A Preliminary Bat Roost Assessment (PRA) was undertaken by Ecus Ltd in October 2023 (Ecus Ltd. '*Blackmoorfoot – Preliminary Roost Assessment V1.0*', report reference 20899, dated February 2024) (PBRA, Ecus 2024) which identified a total of 73 buildings as displaying suitability for roosting bats following good practice guidelines (Collins, 2023). A further four buildings that were found as part of ongoing surveys at the Site during 2024 were identified as also displaying suitability for roosting bats. As such, further survey comprising of a suite of bat emergence and re-entry surveys were undertaken between May and September 2024 to determine the presence or likely absence of roosting bats within buildings, and characterise any bat roosts where present.
- 1.1.4 A previous PRA undertaken at the Site followed by subsequent bat emergence surveys of the buildings were undertaken by Tyler Grange Group Ltd in 2017 ('*Land off Blackmoorfoot Road and Felks Stile Road, Huddersfield - Ecological Addendum Note*', dated August 2020, Report Ref: 10925_R05), which identified the Bungalow building to contain a common pipistrelle *Pipistrellus pipistrellus* day roost.
- 1.1.5 This report details the findings of the bat emergence and re-entry surveys undertaken by Ecus between May and September 2024. Methodologies employed during the surveys are described below along with the findings of the surveys. An assessment, evaluation and appropriate mitigation and enhancement measures are included as appropriate.

2. Methodology

2.1 Bat Emergence/Re-Entry Surveys

2.1.1 A suite of emergence and re-entry surveys were carried out on a total of 78 buildings between May and September 2024 (inclusive) following good practice guidelines (Collins, 2023). The delivery of the surveys was managed and undertaken by experienced bat surveyors positioned to ensure coverage of all aspects of the buildings which displayed suitability for roosting bats (where safe access could be obtained). A total of 30 buildings had aspects that were not covered by surveyors as no Potential Roosting Features (PRFs) and/or access points for bats were identified on those aspects during the PRA (PRA, Ecus 2024), which was re-confirmed via an inspection prior to undertaking the emergence and re-entry surveys. A summary of buildings displaying suitability for roosting bats identified at the Site is provided in Table 1 below. The building reference system originates from the Site's security map and locations are illustrated in Figure 1.

Table 1: Summary of buildings displaying suitability for roosting bats

Building Group	Building Reference	Bat Roosting Suitability
1	#1, #2, 91, 146, 115, 48*	Low
2	#4, SC 99 (C&D), 99A, 99B, 131*, SC2*, 100*, 83*, 31	Low
3	31, 132 (A&B), 133, 134*	Low
	34	Moderate
4	167	Low
	165*, 166	Moderate
5	#5*, #6*, #7*, #9*, #10, #11*, 144 (A&B), 144 (C&D), 144 E*, 145, 252*	Low
6	3*, #3, 69*	Low
	37	Moderate
	4, 26*	High
7	5, 12, 150*, Shop 15, Security*	Low
	Fire Station	Moderate
8	8, 217, Intake Substation*	Low

* Buildings with some aspects not covered during the surveys as no PRFs and/or access points were identified.

Building Group	Building Reference	Bat Roosting Suitability
	39, 40	Moderate
9	1	Low
	House, Bungalow	Moderate
10	13 [*] , 35, 36	Low
	66, 53 (A-D)	Moderate
11	85 [*] , 86, SC 1 [*] , SC 18 [*]	Low
12	SC Area 1 [*] , SC Area 2 [*] , 237 [*]	Low
	111	Moderate
13	16, 84, 88 [*] , 135 (A-C) [*] , 93 [*]	Low
14	89, 90	Low
15	A1, A2, A3	Low
16	B1 [*]	Low

2.1.2 Emergence surveys carried out by Tyler Grange Ltd in 2017 identified the Bungalow building to contain a common pipistrelle *Pipistrellus pipistrellus* day roost. Although the Bungalow was assessed as displaying ‘Moderate’ suitability as part of the PRA (Ecus, PRA 2024), a total of three emergence surveys were carried out to account for this historically recorded roost and provide an adequate update assessment of the current presence or likely absence of bats using the Bungalow.

2.1.3 Since the publication of the fourth edition of the bat survey guidelines (Collins, 2023), a significant change to how nocturnal surveys are carried out has meant that re-entry surveys at dawn are only undertaken where these are ecologically justified. It was considered proportionate in this case to include a number of dawn re-entry surveys at the Site given the number of buildings and Potential Roosting Features (PRFs) present, and that dawn re-entry surveys could confirm roosting behaviour at this Site more readily. As such, dawn re-entry surveys were undertaken on two buildings displaying moderate and high suitability for bats, to ensure these buildings were subject to at least one dusk emergence survey in accord with the updated bat survey guidelines.

2.1.4 Surveyors used a combination of visual assessment and detection using industry-standard recordable bat detectors and night vision aids (NVAs), comprising Canon XA series infra-red camcorders, each accompanied by an infrared lighting rig. The dusk emergence surveys commenced 15 minutes prior to sunset and finished 1.5 hours after sunset. The dawn re-entry

* Buildings/structures with some aspects not covered during the surveys as no PRFs and/or access points were identified.

surveys commenced 1.5 hours prior to sunrise and finished 15 minutes after sunrise. The surveys were conducted during a period where the weather conditions were predominantly dry, with relatively low winds and temperatures in excess of 9°C.

- 2.1.5 Surveys on buildings of moderate or high suitability for roosting bats were spaced apart by a minimum of three weeks apart as per good practice guidance, with no more than one survey undertaken in September which is outside of the optimum survey period (May to August inclusive).
- 2.1.6 The surveys were digitally recorded to allow for any bat echolocation calls to be analysed using Kaleidoscope sound analysis software, with species identification confirmed with reference to bat call parameters presented in *'British Bat Calls: A Guide to Species Identification'* (Russ, 2021). Video recordings were also taken to give greater confidence in the results of the surveys, allowing the option to review in the event surveyors were unsure about the findings on the day due to the diminishing natural light.
- 2.1.7 Survey details are provided in Appendix 1 and darkest point photographs from the NVAs are provided within Appendix 2 as per good practice guidance. Surveyor and NVA positions along with survey findings are illustrated in Figures 2.1-2.15.

2.2 Survey Limitations

- 2.2.1 A total of 17 buildings displaying 'Low' and four buildings displaying 'Moderate' suitability for roosting bats (representing 27% of the total buildings surveyed) were not subject to full coverage on all aspects by surveyors due to the view of some aspects being impeded by dense vegetation and/or lacking safe direct access. This was not considered a significant limitation given the relatively low levels of bat activity recorded during the surveys of these buildings, inferring that the presence of a roost was less likely. Buildings that did not have full coverage on all aspects are summarised in Table 2 below and referenced in Figures 2.1-2.15.

Table 2: Summary of buildings/structures not subject to full coverage by surveyors

Building Group	Building Reference	Limitations
1	#2, 146, 115	Some views impeded by dense vegetation and/or access blocked by security fencing.
2	SC 99 (C&D), 99A, 99B, #4	Some views impeded by dense vegetation.
3	133	Some views impeded by dense vegetation.
4	166	Some views impeded by dense vegetation.
5	144 E	Some views impeded by dense vegetation

Building Group	Building Reference	Limitations
6	#3	View of east aspect impeded by dense vegetation.
7	12, Shop 15	Some views impeded by dense vegetation
	Fire Station	View of west aspect impeded by dense vegetation.
8	8, 217	Some views impeded by dense vegetation.
9	1	View of west aspect impeded by dense vegetation.
10	53 (A-D)	View of west aspect impeded by dense vegetation.
12	111	View of south aspect impeded by dense vegetation and security fencing.
15	A1, A3	Some views impeded by dense vegetation.

2.2.2 A total of four buildings (100, 83, 31 and B1) assessed as displaying low suitability for roosting bats were subject to one dusk emergence survey in September, which is outside of the optimum survey period (May-August inclusive) as per good practice guidance. This was due to multiple survey cancellations between May and August from bad weather pushing these rescheduled surveys into September. This was not considered a significant limitation given the relatively low levels of bat activity recorded during the surveys of other buildings undertaken during the optimum survey period, inferring presence of roosting bats was unlikely.

2.2.3 Infrared cameras were used as NVAs throughout the suite of emergence and re-entry surveys undertaken at the Site, in line with good practice guidance. 18 out of a total of 151 individual camera set ups failed to capture a darkest point photograph. These were attributable to either infrared lighting failing or cameras failing to successfully save the data captured to memory cards for later review, meaning the outcome of these surveys did not fully rely on the use of NVAs. During the majority of circumstances, surveyors could observe through the camera (despite cameras failing to save data) and therefore were not restricted when it became too dark to easily observe bats through the naked eye. Overall, the NVA equipment failures, were not considered to be a significant limitation to the overall validity of the surveys given the small percentage of failures, in conjunction with the full recording by other surveyors and NVAs throughout the surveys.

3. Findings and Evaluation

3.1 Bat Emergence/Re-entry Survey Results

3.1.1 The results of the emergence and re-entry surveys are summarised below and in Figures 2.1-2.15.

Roosting Bats

3.1.2 On 4th June 2024, two common pipistrelle bats were recorded emerging from a broken window on the east aspect of B4 at 22:01 hrs (32 minutes after sunset). No bats were recorded emerging from this building during the second emergence survey undertaken on 25th June 2024 or re-entering the building during the following dawn re-entry survey undertaken on 8th August 2024. Given that B4 & 26 are joined together internally, and internal access to the buildings was not possible due to the presence of asbestos, it was considered that the precise roost location could be in either of these buildings.

3.1.3 No bat roosts were recorded in the other buildings present across the Site during the emergence and re-entry surveys undertaken between May and September 2024.

Foraging and Commuting Bats

3.1.4 Incidental records of foraging and commuting activity recorded during the emergence and re-entry surveys pertained to common pipistrelle and noctule *Nyctalus noctula* bats, which were largely recorded nearby to buildings adjacent to areas of scrub and trees located on the north and east boundaries of the Site. Activity levels generally peaked between 30 and 45 minutes after sunset during the dusk emergence surveys, and between 30 and 15 minutes before sunrise during the dawn re-entry surveys. Activity levels were generally higher during surveys with no wind and temperatures in excess of 15°C. No other obvious patterns of activity (e.g. particular surveys/areas on Site where there was more prolonged activity) was recorded. Activity levels were considered to be low within the Site overall with <10 passes recorded during any given survey for common pipistrelle and noctule bats encountered, compared to higher levels of activity recorded outside of the Site boundaries during the suite of Night-time Bat Walkovers (NBW) that are currently being undertaken at the Site.

3.1.5 Given the size of the Site and number of buildings with PRFs, it is possible that bats (notably common pipistrelle bats that almost exclusively roost in buildings) observed foraging and commuting during the suite of surveys undertaken may have emerged from or re-entered buildings with roosting suitability elsewhere on the Site or close to the Site which were not the focus of that given survey, in particular the surveys of buildings close to the north and east boundaries of the Site.

3.1.6 A detailed summary of bat activity across the Site will be included in the upcoming '*Bat Activity Report*' (Ecus, 2024) which will include an assessment of the value of the Site for foraging, commuting and swarming bats.

4. Assessment and Conclusions

4.1 Legislation

- 4.1.1 All species of bat occurring within the UK are included in Schedule 2 of the Conservation of Habitats and Species (Amendment) (EU Exit) Regulations 2019. Under regulation 41 bats are protected from deliberate capture, injury or killing, from deliberate disturbance and from deliberate damage or destruction of a breeding site or resting place (roost).
- 4.1.2 All UK bats are also included on Schedule 5 of the Wildlife and Countryside Act 1981 (as amended) which makes it an offence to intentionally or recklessly disturb bats while they are occupying a structure or place used for shelter or protection, or to obstruct access to any such place.
- 4.1.3 Barbastelle *Barbastella barbastellus*, Bechstein's *Myotis bechsteinii*, brown long-eared bat *Plecotus auritus*, greater horseshoe *Rhinolophus ferrumequinum*, lesser horseshoe *Rhinolophus hipposideros*, noctule *Nyctalus noctula* and soprano pipistrelle *Pipistrellus pygmaeus* bats are included as species of principal importance under Section 41 of the Natural Environment and Rural Communities (NERC) Act 2006.

4.2 Proposals

- 4.2.1 Proposals for the Site are taken from Nineteen 47 '*Blackmoorfoot Road, Huddersfield – Technical Planning Layout*' (Drawing no. 2114_008D) and are understood to comprise a residential development of 700 properties, a care home and local centre with associated landscaping for gardens and areas of Public Open Space (POS). All buildings at the Site will be demolished to facilitate the development.

4.3 Assessment

- 4.3.1 During the emergence and re-entry surveys undertaken between May and September 2024, one roost location was recorded across the buildings at the Site which pertained to a common pipistrelle day roost located in B4 & B26.
- 4.3.2 All other buildings that were surveyed at the Site recorded no roosting bats during the emergence and re-entry surveys. Given the number of buildings with suitability for roosting bats present at the Site, including the Bungalow building which was recorded to contain a common pipistrelle day roost by Tyler Grange Ltd in 2017, it is reasonable to expect that roosting bats could use any of these buildings with PRFs in the future. Bat species are known to exhibit roost switching behaviour and it is reasonable to expect that there are other roost locations within the buildings on-Site that were not identified during the suite of surveys undertaken (i.e. the Bungalow could be used again by roosting bats in the future), although the low activity levels recorded during the surveys suggests that the number of roosts at the Site is likely to be low and limited to day roosts that support common

pipistrelle bats.

4.3.3 In consultation with the *'UK Bat Mitigation Guidelines: a guide to impact assessment, mitigation and compensation for developments affecting bats'* Reason, P.F. and Wray, S. (2023), the common pipistrelle day roost recorded within B4 & B26 is considered to be of site level importance. This is due to common pipistrelle being common and widespread species in the UK.

4.3.4 It is considered that the buildings surveyed at the Site are of no more than low suitability for hibernating bats in accordance with good practice guidelines. As such, no further survey work is necessary in respect to hibernating bats, although sensitive timing of works is recommended below should hibernating bats use the buildings at the Site.

4.4 Recommendations

4.4.1 Due to the proposals resulting in the demolition of B4 & B26 and destruction of a common pipistrelle day roost, a European Protected Species (EPS) mitigation licence issued by Natural England will be required to allow demolition of these buildings to lawfully proceed.

4.4.2 The licence application will include a bat mitigation strategy designed to maintain the Favourable Conservation Status (FCS) of the identified roost and will detail measures to minimise disturbance and avoid death or injury to bats during the demolition process. These measures will include:

- Timing the works appropriately to ensure the least impact upon bats, namely undertaking the demolition of B4 & B26 to avoid the recognised bat hibernation period (November to March inclusive) where feasible (a time of year when, if present, bats are at their most vulnerable);
- Pre-demolition inspection as appropriate;
- Exclusion of the identified roost prior to demolition, where feasible
- Supervision of demolition works by a licensed bat ecologist who is named or accredited to act under the bat mitigation licence for the Site;
- All contractors working on the project to be briefed on the presence of bats and appropriate working practices by the Named Ecologist or an Accredited Agent through a pre-works Toolbox Talk (TBT) (see section 4.4.4);
- Temporary bat roosting provision, such as bat boxes erected on retained trees on Site, for the relocation of any bats encountered during the supervised works; and,
- Long term mitigation to be installed to ensure continuous roost provision for bats. The type of mitigation required would be informed with reference to the *'UK Bat Mitigation Guidelines: a guide to impact assessment, mitigation and compensation for developments affecting bats'* (Reason, P.F. and Wray, S, 2023), but the provision of integrated bat boxes into newly built properties is likely to be adequate (see section 4.4.5).

- 4.4.3 Whilst the likely absence of bat roosts has been determined for all other buildings at the Site, the presence of bats roosting in the buildings in the future cannot be ruled out due to the mobile nature of bats, the number of buildings with suitable roosting features at the Site, and the historic record of a common pipistrelle day roost identified within the bungalow. As such, it is recommended that demolition works Site wide are undertaken in accordance with a Bat Reasonable Avoidance Method Statement (Bat RAM MS) in order to minimise the risk of committing an offence under the relevant legislation.
- 4.4.4 The Bat RAM MS should recommend a pre-works TBT to be provided by a Ecological Clerk of Works (ECoW), sensitive working measures during building demolition (including supervision of the Bungalow being demolished by the ECoW), and avoidance of demolition during the hibernation period wherever possible. In the unlikely event that any evidence of roosting bats is identified or suspected at any time during the demolition works, such as live or dead bats, droppings, feeding remains, works should cease immediately (where safe and practical to do so). It is likely that the on-call ecologist would need to attend Site before any works recommence to determine how works may proceed legally, which may include the requirement for additional mitigation licencing issued by Natural England where appropriate.
- 4.4.5 It is recommended that bat roosting provision is included within all of the newly built properties to compensate for the loss of the confirmed common pipistrelle day roost, other PRFs associated with the Site, and contribute towards overall ecological enhancement at the Site. A combination of integrated boxes (e.g. Habibat integrated bat boxes) and ridge boxes (e.g. Manthorpe Bat Ridge Roost) at a ratio of 50:50 is a preferred option relative to externally mounted boxes as they are less susceptible to damage. Bat boxes should be positioned at eaves level (at least 4 m above the ground where possible) facing suitable foraging habitat in locations away from direct and indirect lighting, as far as possible. Final placements should be agreed with an ecologist at the design stage.
- 4.4.6 Mitigation measures should be implemented whereby the lighting and layout of the proposed development (as well as any temporary lighting to be used during the construction phase) will be designed to avoid light-spill onto suitable retained habitats and created greenspace to safeguard these habitats as foraging, commuting and potential roosting resources. The measures should be designed by a lighting engineer in consultation with an ecologist and be in accordance with current guidance from the Bat Conservation Trust '*Bats and Artificial Lighting at Night*' (Guidance note 08/23) and include the following:
- The production of a lighting strategy plan by an ecologist which identifies areas of the development as 'green zones' (no light restrictions), 'amber zones' (some light restrictions)

and 'red zones' (no light spill at all). The lighting strategy plan will inform the design of a lux contour plan produced by a lighting engineer which will safeguard the identified amber and red zones as foraging, commuting and potential roosting resources.

- Artificial lighting during the works should not be placed directly facing onto suitable foraging and commuting habitat or focus on potential roost features;
- Unnecessary light spill during the works should be controlled through a combination of directional lighting, low lighting columns (reduced wattage lamps and louvres), hooded/shielded luminaires and/or strategic screening planting. All luminaires will lack UV elements and metal halide, fluorescent sources should not be used. LED luminaires should be used where possible with a warm white spectrum adopted (<2700Kelvin); and,
- Night working during the construction phase should be avoided where possible and construction practices should follow best practice in terms of dust and noise control.

4.4.7 The results of these surveys are valid for a period of 12 months, as such, if works to demolish the buildings have not commenced by September 2025, it is recommended that an update PRA and bat emergence survey(s) are undertaken to account for any potential changes in the suitability of the buildings for roosting bats.

4.4.8 Any mitigation licence application requires survey information to be obtained during the most recent survey season prior to application.

5. References

Bat Conservation Trust, Institution of Lighting Professionals (2023). '*Bats and artificial lighting at night*'. BCT, London.

Collins, J. (2023). '*Bat Surveys for Professional Ecologists: Good Practice Guidelines (4th edn)*'. The Bat Conservation Trust, London.

Ecus Ltd (2024), '*Land off Blackmoorfoot Road – Preliminary Roost Assessment*' V1.0, Report Ref: 20899. Ecus Ltd, Sheffield.

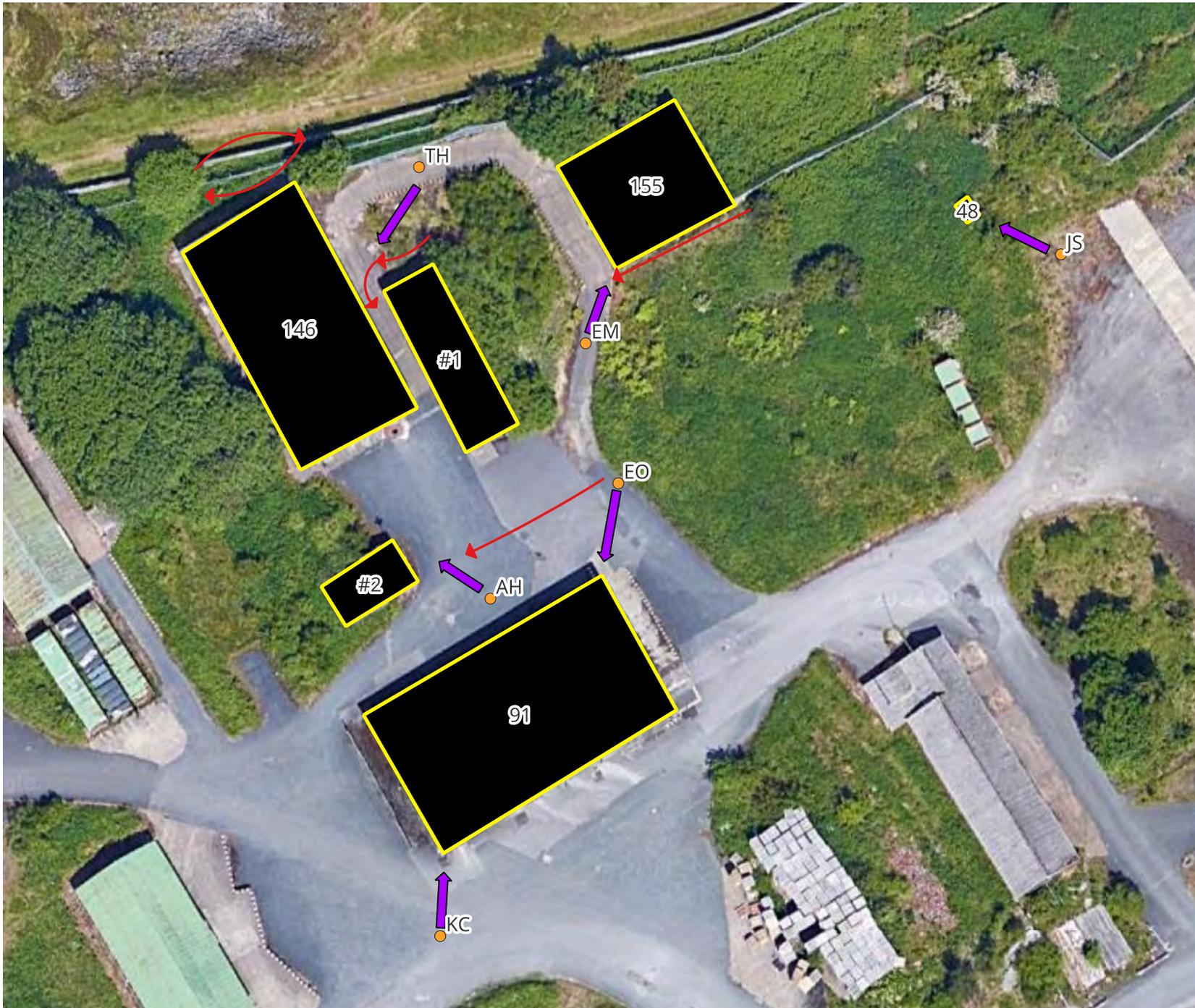
Institution of Lighting Professionals. (2023). '*Bats and Artificial Lighting at Night*' document reference GN08/23. Available at <https://theilp.org.uk/publication/guidance-note-8-bats-and-artificial-lighting/>

Reason, P.F and Wray, S. (2023). '*UK Bat Mitigation Guidelines: a guide to impact assessment, mitigation and compensation for developments affecting bats*'. Chartered Institute of Ecology and Environmental Management , Ampfield.

Russ, J. (2021). '*Bat Calls of Britian and Europe: A Guide to Species Identification*'. Pelagic Publishing, London. ISBN 9781784272258.

Figure 1: Building Suitability Map

Figures 2- 17: Survey Results

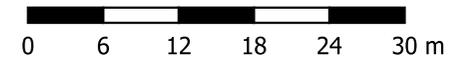


Key

- Surveyor Locations
- ➔ Camera Field of View
- Buildings

Flight Paths 31/07/2024

- ➔ Common pipistrelle

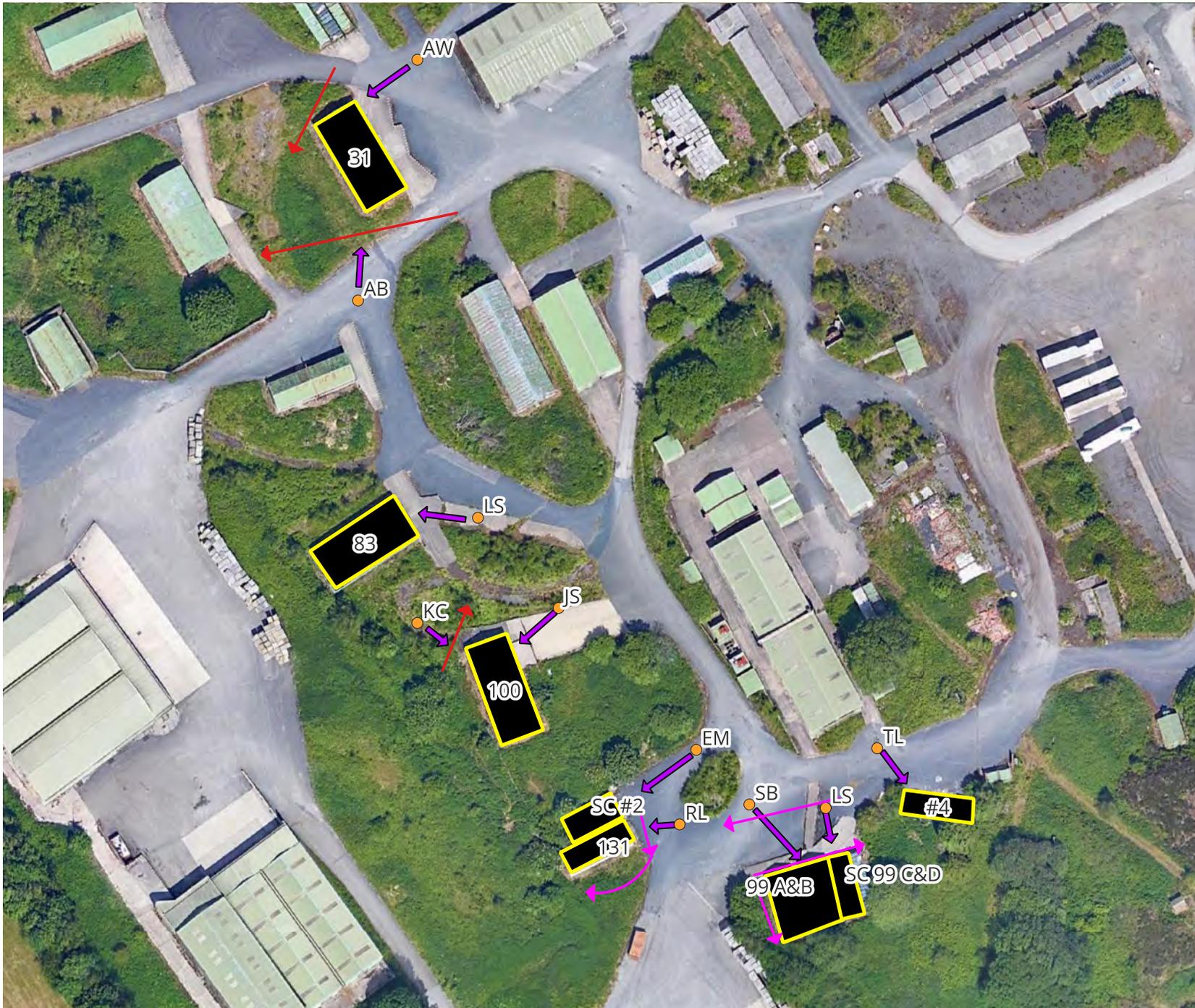


Vistry Yorkshire, Miller Homes & Countryside Partnerships Limited

Land off Blackmoorfoot Road, Huddersfield

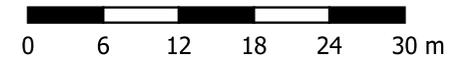
Bat Emergence Survey Report
Figure 2
Group 1 Surveyor Locations
(31/07/2024)

A	28.08.2024	AO	JS
Rev	Date	Drawn by	Checked by
Site centred on:		(OS NGR): SE 11370 14757	



Key

- Surveyor Locations
 - ➔ Camera Field of View
 - ▭ Buildings
- Flight Paths 18/07/2024
- ➔ Common pipistrelle
- Flight Paths 03/09/2024
- ➔ Common pipistrelle



Vistry Yorkshire, Miller Homes & Countryside Partnerships Limited

Land off Blackmoorfoot Road, Huddersfield

Bat Emergence Survey Report
Figure 3
Group 2 Surveyor Locations
(18/07/2024 & 03/09/2024)

Rev	Date	Drawn by	Checked by
A	28.08.2024	AO	JS

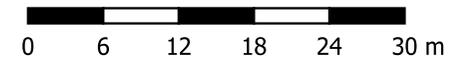
Site centred on: (OS NGR): SE 11370 14757

Key

- Surveyor Locations
- ➔ Camera Field of View
- Buildings

Flight Paths 24/07/2024

➔ Common pipistrelle



Vistry Yorkshire, Miller Homes & Countryside Partnerships Limited

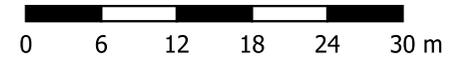
Land off Blackmoorfoot Road, Huddersfield

Bat Emergence Survey Report
 Figure 4
 Group 3 Surveyor Locations
 (15/05/2024 & 24/07/2024)

A	28.08.2024	AO	JS
Rev	Date	Drawn by	Checked by
Site centred on:		(OS NGR): SE 11370 14757	

Key

- Surveyor Locations
 - ➔ Camera Field of View
 - Buildings
- Flight Paths 04/06/2024
➔ Common pipistrelle
- Flight Paths 08/07/2024
➔ Common pipistrelle
- Flight Paths 25/07/2024
➔ Common pipistrelle



Vistry Yorkshire, Miller Homes & Countryside Partnerships Limited

Land off Blackmoorfoot Road, Huddersfield

Bat Emergence Survey Report
 Figure 5
 Group 4 Surveyor Locations
 (04/06/2024, 08/07/2024 & 25/07/2024)

Rev	Date	Drawn by	Checked by
A	28.08.2024	AO	JS

Site centred on: (OS NGR): SE 11370 14757



Key

- Surveyor Locations
 - ➔ Camera Field of View
 - Buildings
- Flight Paths 22/07/2024
- ➔ Common pipistrelle



Vistry Yorkshire, Miller Homes & Countryside Partnerships Limited

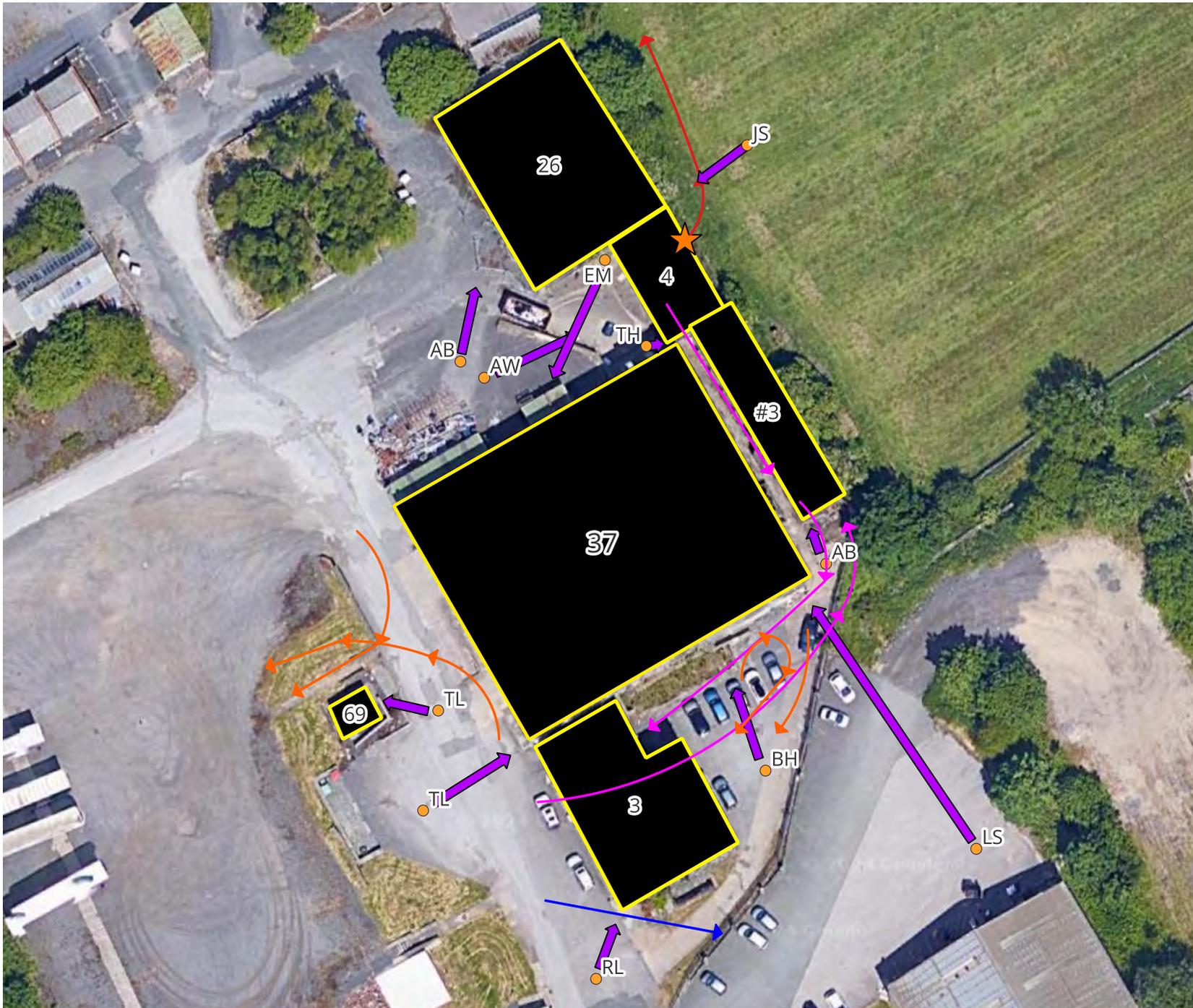
Land off Blackmoorfoot Road, Huddersfield

Bat Emergence Survey Report
Figure 6
Group 5 Surveyor Locations
(22/07/2024)

A	28.08.2024	AO	JS
Rev	Date	Drawn by	Checked by

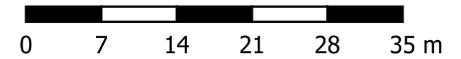
Site centred on: (OS NGR): SE 11370 14757





Key

- ★ Roost Access Point
 - Surveyor Locations
 - Camera Field of View
 - Buildings
- Flight Paths 04/06/2024
- Common pipistrelle
- Flight Paths 12/06/2024
- Common pipistrelle
- Flight Path 17/07/2024
- Common pipistrelle
 - Noctule

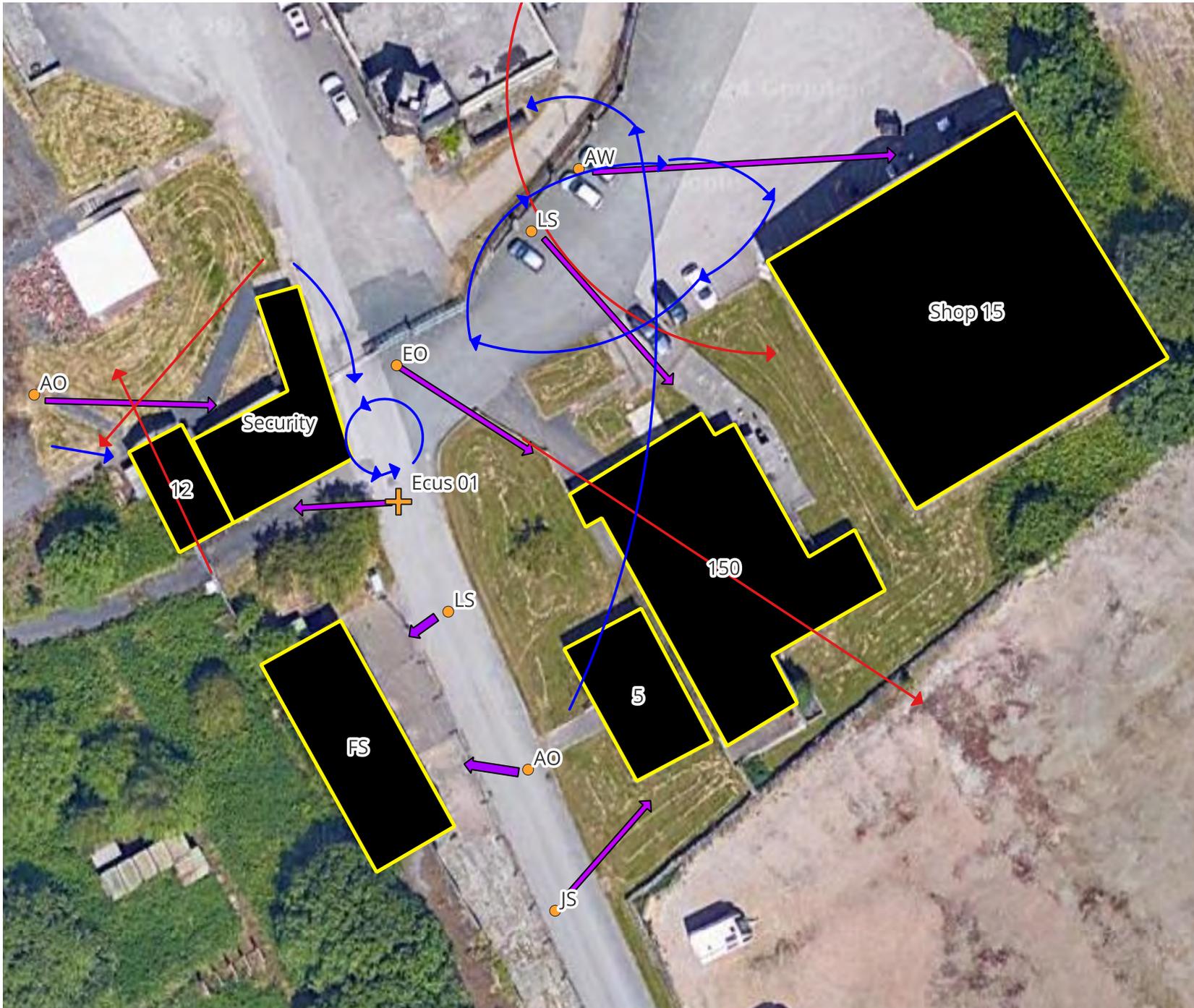


Vistry Yorkshire, Miller Homes & Countryside Partnerships Limited

Land off Blackmoorfoot Road, Huddersfield

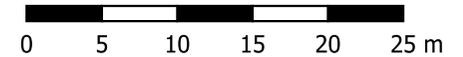
Bat Emergence Survey Report
 Figure 7
 Group 6 Surveyor Locations
 (04/06/2024, 12/06/2024 & 17/07/2024)

A	28.08.2024	AO	JS
Rev	Date	Drawn by	Checked by
Site centred on:		(OS NGR): SE 11370 14757	



Key

- Surveyor Locations
 - ➔ Camera Field of View
 - ⊕ Lone Camera
 - ▭ Buildings
- Flight Paths 29/07/2024**
- ➔ Common pipistrelle
 - ➔ Noctule



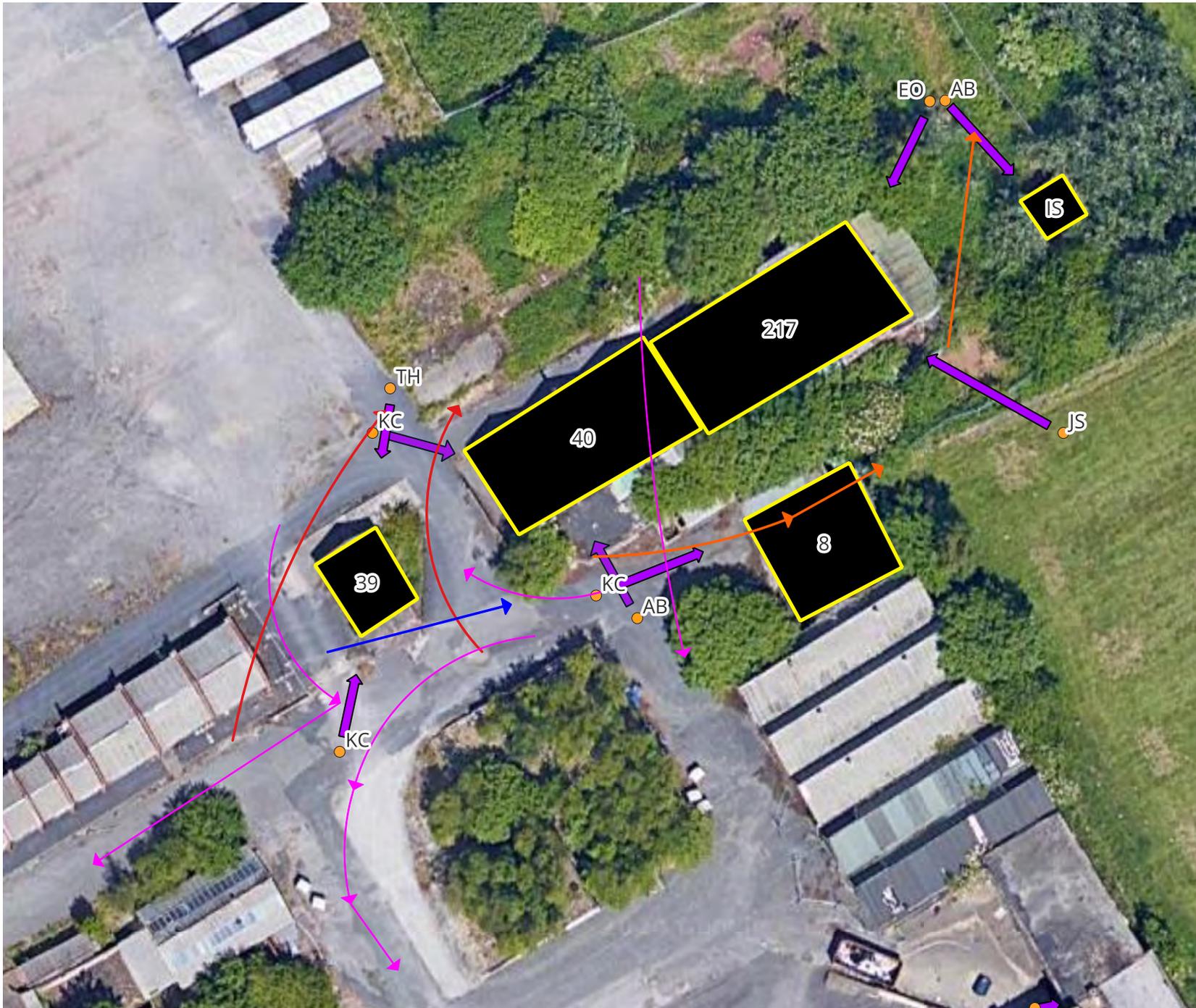
Vistry Yorkshire, Miller Homes & Countryside Partnerships Limited

Land off Blackmoorfoot Road, Huddersfield

Bat Emergence Survey Report
 Figure 8
 Group 7 Surveyor Locations (1/07/2024 & 29/07/2024)

Rev	Date	Drawn by	Checked by
A	28.08.2024	AO	JS

Site centred on: (OS NGR): SE 11370 14757



Key

- Surveyor Locations
- ➔ Camera Field of View
- Buildings

Flight Paths 03/06/2024

- ➔ Common pipistrelle

Flight Paths 23/07/2024

- ➔ Common pipistrelle
- ➔ Noctule

Flight Paths 13/08/2024

- ➔ Common pipistrelle



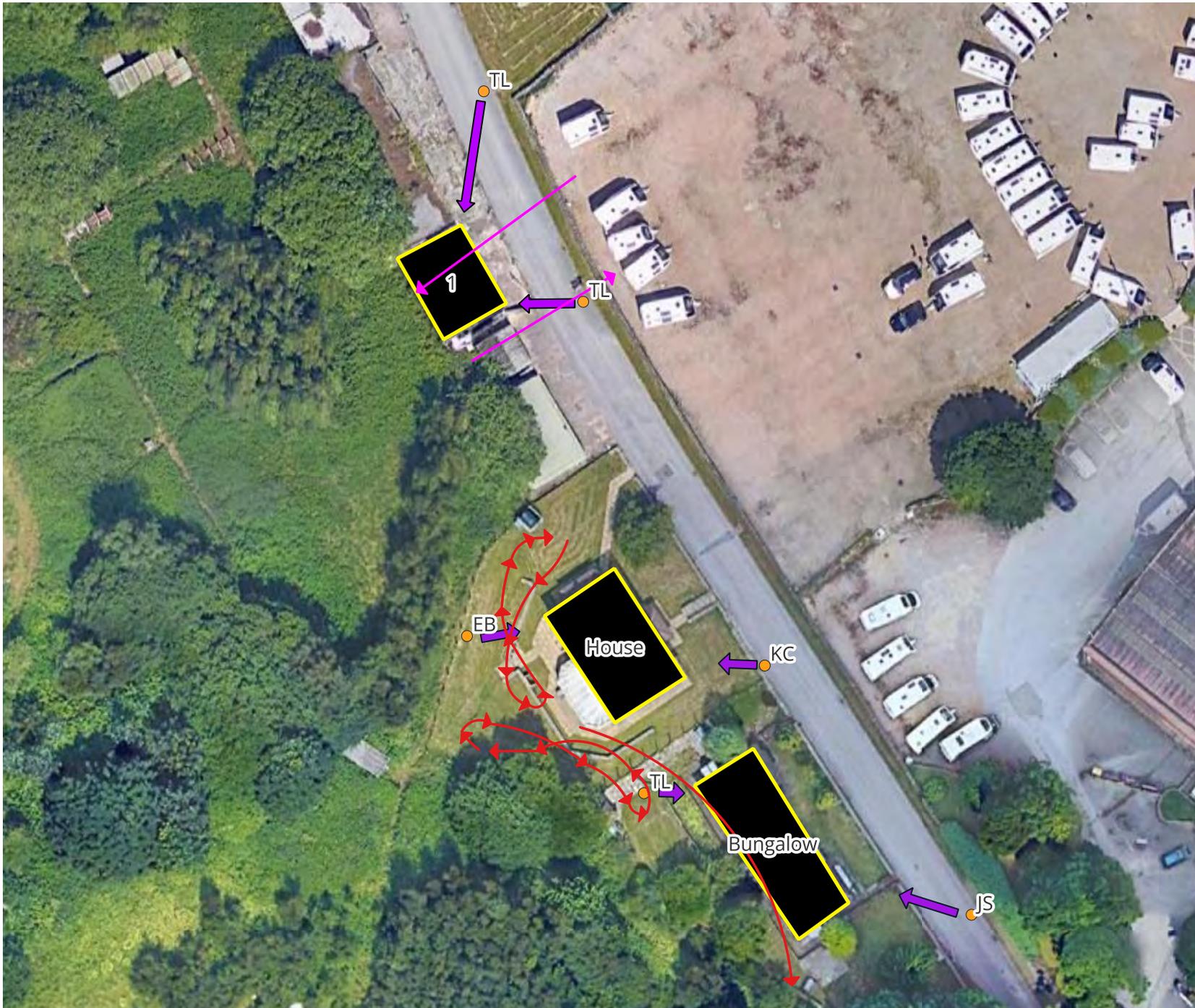
Vistry Yorkshire, Miller Homes & Countryside Partnerships Limited

Land off Blackmoorfoot Road, Huddersfield

Bat Emergence Survey Report
Figure 9

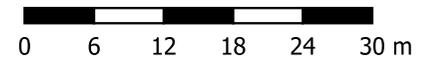
Group 8 Surveyor Locations
(03/06/2024, 23/07/2024 & 13/08/2024)

A	28.08.2024	AO	JS
Rev	Date	Drawn by	Checked by
Site centred on:		(OS NGR): SE 11370 14757	



Key

- Surveyor Locations
 - ➔ Camera Field of View
 - Buildings
- Flight Paths 30/05/2024
- ➔ Common pipistrelle
- Flight Path 17/06/2024
- ➔ Common pipistrelle



Vistry Yorkshire, Miller Homes & Countryside Partnerships Limited

Land off Blackmoorfoot Road, Huddersfield

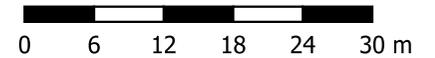
Bat Emergence Survey Report
 Figure 10
 Group 9 Surveyor Locations
 (30/05/2024 & 17/06/2024)

A	28.08.2024	AO	JS
Rev	Date	Drawn by	Checked by
Site centred on:		(OS NGR): SE 11370 14757	



Key

- Surveyor Locations
 - ➔ Camera Field of View
 - Buildings
- Flight Paths 06/06/2024
- ➔ Common pipistrelle
- Flight Paths 23/07/2024
- ➔ Common pipistrelle



Vistry Yorkshire, Miller Homes & Countryside Partnerships Limited

Land off Blackmoorfoot Road, Huddersfield

Bat Emergence Survey Report
Figure 11
Group 10 Surveyor Locations
(06/06/2024 & 23/07/2024)

Rev	Date	Drawn by	Checked by
A	28.08.2024	AO	JS

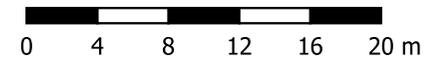
Site centred on: (OS NGR): SE 11370 14757

Key

- Surveyor Locations
- ➔ Camera Field of View
- Buildings

Flight Paths 01/07/2024

➔ Common pipistrelle



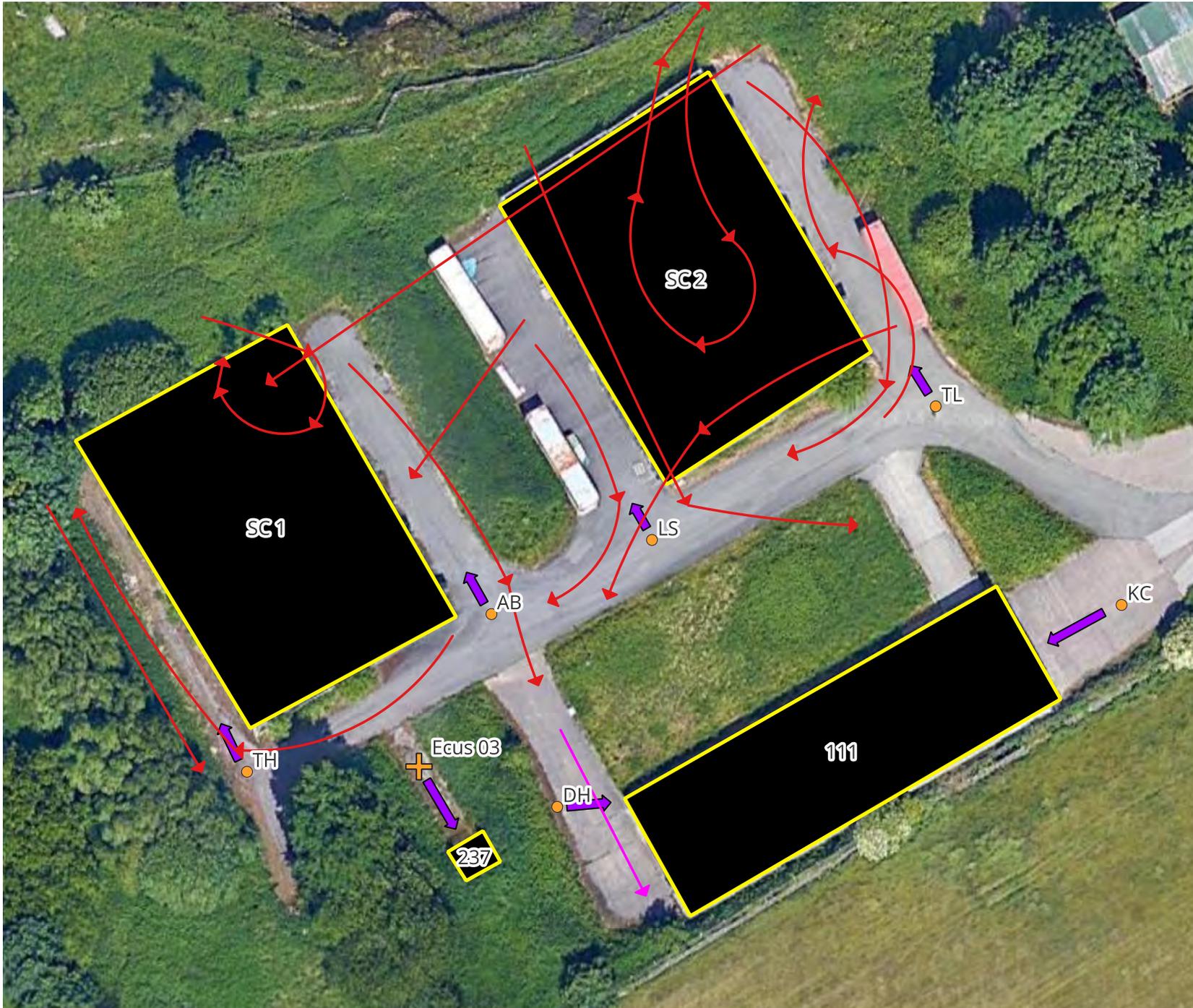
Vistry Yorkshire, Miller Homes & Countryside Partnerships Limited

Land off Blackmoorfoot Road, Huddersfield

Bat Emergence Survey Report
Figure 12
Group 11 Surveyor Locations
(01/07/2024)

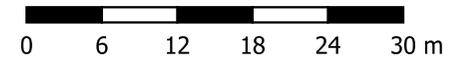
A	28.08.2024	AO	JS
Rev	Date	Drawn by	Checked by

Site centred on:	(OS NGR): SE 11370 14757
------------------	--------------------------



Key

- Surveyor Locations
 - ➔ Camera Field of View
 - + Lone Camera
 - Buildings
- Flight Paths 11/06/2024
- ➔ Common pipistrelle
- Flight Paths 01/08/2024
- ➔ Common pipistrelle



Vistry Yorkshire, Miller Homes & Countryside Partnerships Limited

Land off Blackmoorfoot Road, Huddersfield

Bat Emergence Survey Report
 Figure 13
 Group 12 Surveyor Locations
 (11/06/2024 & 1/08/2024)

Rev	Date	Drawn by	Checked by
A	28.08.2024	AO	JS

Site centred on: (OS NGR): SE 11370 14757

Key

- Surveyor Locations
 - ➔ Camera Field of View
 - Buildings
- Flight Paths 14/08/2024
- ➔ Common pipistrelle



Vistry Yorkshire, Miller Homes & Countryside Partnerships Limited

Land off Blackmoorfoot Road, Huddersfield

Bat Emergence Survey Report
Figure 14
Group 13 Surveyor Locations
(14/08/2024)

Rev	Date	Drawn by	Checked by
A	28.08.2024	AO	JS

Site centred on: (OS NGR): SE 11370 14757

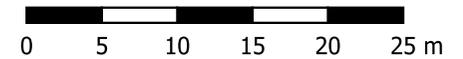


Key

- Surveyor Locations
- ↗ Camera Field of View
- Buildings

Flight Paths 30/05/2024

- Common pipistrelle



Vistry Yorkshire, Miller Homes & Countryside Partnerships Limited

Land off Blackmoorfoot Road, Huddersfield

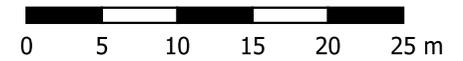
Bat Emergence Survey Report
Figure 15
Group 14 Surveyor Locations
(30/05/2024)

Rev	Date	Drawn by	Checked by
A	28.08.2024	AO	JS

Site centred on: (OS NGR): SE 11370 14757

Key

- Surveyor Locations
 - ➔ Camera Field of View
 - Buildings
- Flight Paths 20/05/2024
- ➔ Common pipistrelle



Vistry Yorkshire, Miller Homes & Countryside Partnerships Limited

Land off Blackmoorfoot Road, Huddersfield

Bat Emergence Survey Report
Figure 16
Group 15 Surveyor Locations
(20/05/2024)

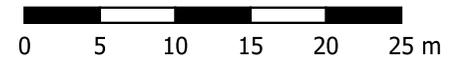
A	28.08.2024	AO	JS
Rev	Date	Drawn by	Checked by

Site centred on: (OS NGR): SE 11370 14757



Key

- Surveyor Locations
- Camera Field of View
- Buildings



Vistry Yorkshire, Miller Homes & Countryside Partnerships Limited

Land off Blackmoorfoot Road, Huddersfield

Bat Emergence Survey Report
Figure 17
Group 16 Surveyor Locations
(02/09/2024)

Rev	Date	Drawn by	Checked by
A	28.08.2024	AO	JS

Site centred on:	(OS NGR): SE 11370 14757
------------------	--------------------------

Appendix 1: Survey Details

Appendix 1: Survey Details

Date	Building Group	Building number	Number of surveyors	Start Time	End Time	Sunset/Sunrise	Temperature start (degrees)	Temperature end (degrees)	Wind start (BS)*	Wind end (BS)*	Cloud cover % start	Cloud cover % end	Precipitation start	Precipitation end
31.07.2024	Group 1	#1, #2, 91, 146, 115, 48	6	20:49	22:34	21:04	21	19	2	1	20	70	dry	dry
18.07.2024	Group 2	#4, SC 99 (C&D), 99A, 99B, 131, SC2	7	21:09	22:57	21:24	20	18	0	0	85	90	dry	dry
03.09.2024		100, 83, 31	5	19:36	21:21	19:51	15	13	1	1	70	60	dry	dry
15.05.2024	Group 3	34	6	20:47	22:32	21:02	13	12	1	0	90	90	drizzle	dry
17.06.2024		34	2	21:24	23:09	21:39	11	12	2	1	20	20	dry	dry
24.07.2024		31, 132 (A&B), 133, 134	2	21:01	22:46	21:16	16	16	3	4	75	90	dry	dry
04.06.2024	Group 4	166	4	21:14	22:59	21:29	9	8	2	2	30	20	dry	dry
01.07.2024		166	4	21:26	23:09	21:39	11	11	5	5	75	80	dry	dry
08.07.2024		165	3	21:20	23:05	21:35	15	15	1	0	60	90	dry	dry
25.07.2024		167	4	20:59	22:44	21:14	15	14	2	1	10	30	dry	dry
01.08.2024		165	3	20:47	22:32	21:02	19	17	1	1	10	5	dry	dry
22.07.2024	Group 5	#5, #6, #7, #9, #10, #11, 144 (A&B), 144 (C&D), 144 E, 252	8	21:04	22:49	21:19	16	15	2	2	90	70	dry	dry
04.06.2024	Group 6	4 & 26	3	21:14	22:59	21:29	9	8	2	2	30	20	dry	dry
12.06.2024		37	3	21:22	23:07	21:37	9	8	1	0	0	0	dry	dry
25.06.2024		4 & 26	3	21:26	23:11	21:41	19	18	0	0	5	10	dry	dry
08.07.2024		37	3	21:20	23:05	21:35	15	15	1	0	60	90	dry	dry
17.07.2024		3, #3, 69	5	21:11	22:56	21:26	18	17	1	1	40	30	dry	dry
08.08.2024		4 & 26	3	04:04	05:49	05:34	13	13	2	2	100	60	drizzle	dry

Appendix 1: Survey Details

29.07.2024	Group 7	5, 12, 150, Shop 15, Security	5	20:53	22:38	21:08	20	18	2	0	30	20	drizzle	dry
18.07.2024		Fire Station	2	21:10	22:57	21:25	20	18	0	0	85	90	dry	dry
08.08.2024			2	04:04	05:49	05:34	13	13	2	2	100	60	dry	dry
03.06.2024	Group 8	39	2	21:14	22:59	21:29	12	12	2	3	90	70	dry	dry
08.07.2024		39	2	21:20	23:05	21:35	15	15	1	0	60	90	dry	dry
23.07.2024		40	2	21:02	22:47	21:17	17	15	0	0	50	40	dry	dry
12.08.2024		8, 217, Intake Substation	4	20:26	21:11	20:41	17	16	3	0	20	60	dry	dry
02.09.2024		40	2	19:38	21:15	19:53	17	16	0	1	80	80	dry	dry
30.05.2024	Group 9	Bungalow	2	21:09	22:54	21:24	11	11	1	2	90	60	dry	dry
30.05.2023		House	2	21:09	22:54	21:24	11	11	1	2	90	60	dry	dry
17.06.2023		1	2	21:24	23:09	21:39	16	15	2	1	0	50	dry	dry
04.07.2023		House	2	21:23	23:08	21:38	13	13	3	2	40	70	dry	dry
04.07.2024		Bungalow	2	21:23	23:08	21:38	13	13	3	2	40	70	dry	dry
02.09.2024		Bungalow	2	19:38	21:15	19:53	17	16	0	1	80	80	dry	dry
06.06.2024	Group 10	66, 53 (A-D)	4	21:14	22:59	21:29	10	9	0	1	20	100	dry	dry
23.07.2024		13, 35, 36	4	21:02	22:45	21:17	17	15	0	0	50	40	dry	dry
07.08.2024		66, 53 (A-D)	4	20:36	22:10	20:51	16	14	3	3	30	30	dry	dry
01.07.2024	Group 11	85, 86, SC 1, SC18	4	21:26	21:39	23:09	11	11	3	3	75	80	dry	dry
11.06.2024	Group 12	111	3	21:21	21:36	23:06	9	8	0	0	100	100	drizzle	dry
17.07.2024		111	3	21:11	21:26	22:56	18	17	1	1	40	30	dry	dry
01.08.2024		SC Area 1, SC Area 2, 237	4	20:47	22:23	21:02	19	17	1	1	10	5	dry	dry

Appendix 1: Survey Details

14.08.2024	Group 13	16, 84, 88, 135 (A-C), 93	8	20:22	22:07	20:37	17	14	0	1	2	5	dry	dry
30.05.2024	Group 14	89, 90	4	21:09	22:55	21:24	12	11	1	1	20	60	dry	dry
20.05.2024	Group 15	A1, A2, A3	5	20:55	22:40	21:10	14	12	2	1	100	90	dry	dry
02.09.2024	Group 16	B1 (Badger Hill)	1	19:38	21:23	19:53	17	16	0	1	80	80	dry	dry

*Beaufort Scale

Appendix 2: Darkest point photographs of Night Vision Aids (NVAs)



Plate 1 **Group 1: 146** (31.07.24) – AH

Plate 2 **Group 1: #1** (31.07.24) – TH

Plate 3 **Group 1: 91** (31.07.24) – KC

Plate 4 **Group 1: 91** (31.07.24) – EO

Vistry Yorkshire, Miller Homes &
Countryside Partnerships Limited
**Blackmoorfoot – Bat Emergence
Surveys**

Appendix 2: Darkest point
photographs of Night Vision Aids
(NVAs)

Ecus Ltd.

President Buildings, 4, Savile St E, Sheffield S4 7UQ



Plate 5 **Group 1: 115** (31.07.24) – EM

Plate 6 **Group 2: 131, SC2** (18.07.24) – RL

Plate 7 **Group 2: #4** (18.07.24) – TL

Plate 8 **Group 2: 83** (03.09.24) – LS

Vistry Yorkshire, Miller Homes &
Countryside Partnerships Limited
**Blackmoorfoot – Bat Emergence
Surveys**

Appendix 2: Darkest point
photographs of Night Vision Aids
(NVAs)

Ecus Ltd.

President Buildings, 4, Savile St E, Sheffield S4 7UQ



Plate 9 **Group 2: 31** (03.09.24) – AB

Plate 10 **Group 2: 31** (03.09.24) – AW

Plate 11 **Group 2: 99C&D** (18.07.24) – LS

Plate 12 **Group 2: 99A, 99B** (18.07.24) – SB

Vistry Yorkshire, Miller Homes &
Countryside Partnerships Limited
**Blackmoorfoot – Bat Emergence
Surveys**

Appendix 2: Darkest point
photographs of Night Vision Aids
(NVAs)

Ecus Ltd.

President Buildings, 4, Savile St E, Sheffield S4 7UQ



Plate 13 **Group 2: 100** (03.09.24) – JS

Plate 14 **Group 2: 100** (03.09.24) KC

Plate 15 **Group 3: 134** (24.07.24) – TH

Plate 16 **Group 3: 34** (15.05.24) – LH

Vistry Yorkshire, Miller Homes &
Countryside Partnerships Limited
**Blackmoorfoot – Bat Emergence
Surveys**

Appendix 2: Darkest point
photographs of Night Vision Aids
(NVAs)

Ecus Ltd.

President Buildings, 4, Savile St E, Sheffield S4 7UQ

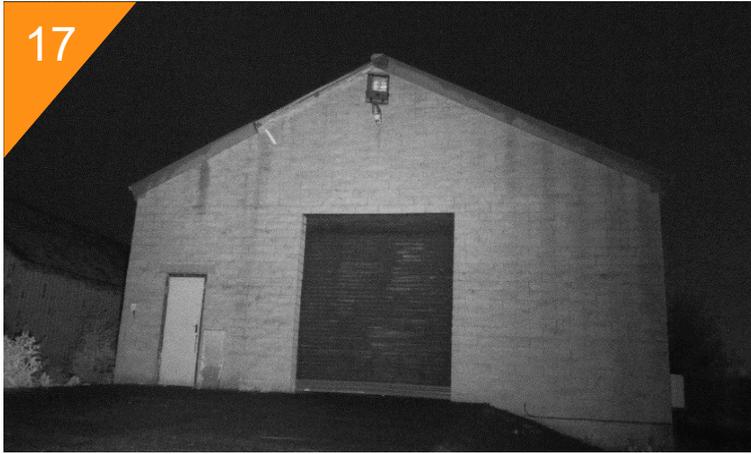


Plate 17 **Group 3: 34** (15.05.24) – JS

Plate 18 **Group 3: 31** (24.07.24) – KC

Plate 19 **Group 3: 31** (24.07.24) – EM

Plate 20 **Group 3: 132** (24.07.24) – EO

Vistry Yorkshire, Miller Homes &
Countryside Partnerships Limited
**Blackmoorfoot – Bat Emergence
Surveys**

Appendix 2: Darkest point
photographs of Night Vision Aids
(NVAs)

Ecus Ltd.

President Buildings, 4, Savile St E, Sheffield S4 7UQ



Plate 21 **Group 3: 132** (24.07.24) – AH

Plate 22 **Group 4: 165** (08.07.24) – AO

Plate 23 **Group 4: 165** (08.07.24) – AW

Plate 24 **Group 4: 165** (08.07.24) – KC

Vistry Yorkshire, Miller Homes &
Countryside Partnerships Limited
**Blackmoorfoot – Bat Emergence
Surveys**

Appendix 2: Darkest point
photographs of Night Vision Aids
(NVAs)

Ecus Ltd.

President Buildings, 4, Savile St E, Sheffield S4 7UQ

25



26



27



28



Plate 25 **Group 4: 167 (25.07.24) – KC**

Plate 26 **Group 4: 167 (25.07.24) – AB**

Plate 27 **Group 4: 167 (25.07.24) – TC**

Plate 28 **Group 4: 167 (25.07.24) – TH**

Vistry Yorkshire, Miller Homes &
 Countryside Partnerships Limited
**Blackmoorfoot – Bat Emergence
 Surveys**

Appendix 2: Darkest point
 photographs of Night Vision Aids
 (NVAs)

Ecus Ltd.

President Buildings, 4, Savile St E, Sheffield S4 7UQ



Plate 29 **Group 4: 166** (01.07.24) – KC

Plate 30 **Group 4: 166** (01.07.24) – AH

Plate 31 **Group 5: 144 (C & D) & E** (22.07.24) – AO

Plate 32 **Group 5: #6, #7, #9** (22.07.24) – JS

Vistry Yorkshire, Miller Homes &
Countryside Partnerships Limited
**Blackmoorfoot – Bat Emergence
Surveys**

Appendix 2: Darkest point
photographs of Night Vision Aids
(NVAs)

Ecus Ltd.

President Buildings, 4, Savile St E, Sheffield S4 7UQ

33



34



35



36



Plate 33 **Group 5: #10, 145** (22.07.24) – KC

Plate 34 **Group 5: 252** (22.07.24) – AW

Plate 35 **Group 5: #5** (22.07.24) – LS

Plate 36 **Group 5: 11** (22.07.24) – EO

Vistry Yorkshire, Miller Homes &
 Countryside Partnerships Limited
**Blackmoorfoot – Bat Emergence
 Surveys**

Appendix 2: Darkest point
 photographs of Night Vision Aids
 (NVAs)

Ecus Ltd.

President Buildings, 4, Savile St E, Sheffield S4 7UQ

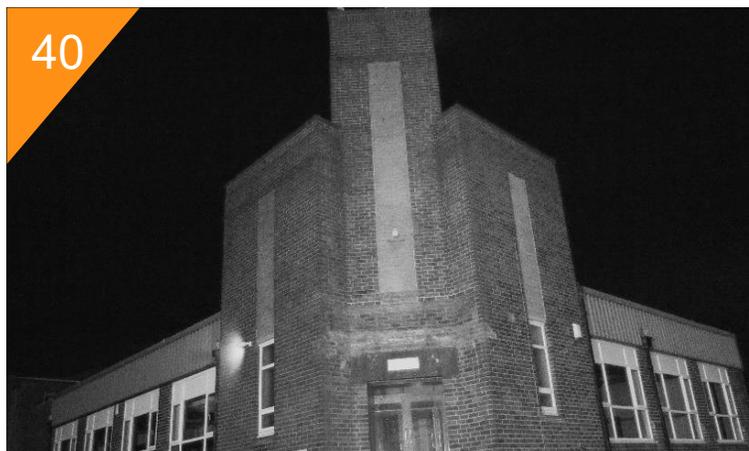


Plate 37 **Group 6: #3, 4** (17.07.24) – TH

Plate 38 **Group 6: #3** (17.07.24) – AB

Plate 39 **Group 6: 3, 37** (17.07.24) – BH

Plate 40 **Group 6: 3** (17.07.24) – RL

Vistry Yorkshire, Miller Homes &
Countryside Partnerships Limited
**Blackmoorfoot – Bat Emergence
Surveys**

Appendix 2: Darkest point
photographs of Night Vision Aids
(NVAs)

Ecus Ltd.

President Buildings, 4, Savile St E, Sheffield S4 7UQ



Plate 41 **Group 6: 37** (12.06.24) – TL

Plate 42 **Group 6: 37** (08.07.24) – LS

Plate 43 **Group 6: 37** (08.07.24) – EM

Plate 44 **Group 6: 69** (17.07.24) – TL

Vistry Yorkshire, Miller Homes &
Countryside Partnerships Limited
**Blackmoorfoot – Bat Emergence
Surveys**

Appendix 2: Darkest point
photographs of Night Vision Aids
(NVAs)

Ecus Ltd.

President Buildings, 4, Savile St E, Sheffield S4 7UQ



Plate 45 **Group 6: 26** (08.08.24) – AB

Plate 46 **Group 6: 26 & 4** (08.08.24) – JS

Plate 47 **Group 6: 4** (25.06.24) – AW

Plate 48 **Group 7: Shop 15** (29.07.24) – LS

Vistry Yorkshire, Miller Homes &
Countryside Partnerships Limited
**Blackmoorfoot – Bat Emergence
Surveys**

Appendix 2: Darkest point
photographs of Night Vision Aids
(NVAs)

Ecus Ltd.

President Buildings, 4, Savile St E, Sheffield S4 7UQ



Plate 49 **Group 7: 150** (29.07.24) – LS

Plate 50 **Group 7: 150** (29.07.24) – EO

Plate 51 **Group 7: 12, Security** (29.07.24) – AO

Plate 52 **Group 7: Security** (29.07.24) – Ecus 01

Vistry Yorkshire, Miller Homes &
Countryside Partnerships Limited
**Blackmoorfoot – Bat Emergence
Surveys**

Appendix 2: Darkest point
photographs of Night Vision Aids
(NVAs)

Ecus Ltd.

President Buildings, 4, Savile St E, Sheffield S4 7UQ

53



54



55



56



Plate 53 **Group 7: 5** (29.07.24) – JS

Plate 54 **Group 7: Fire Station** (18.07.24) – LS

Plate 55 **Group 7: Fire Station** (08.08.24) – AO

Plate 56 **Group 8: IS** (12.08.24) – AB

Vistry Yorkshire, Miller Homes &
 Countryside Partnerships Limited
**Blackmoorfoot – Bat Emergence
 Surveys**

Appendix 2: Darkest point
 photographs of Night Vision Aids
 (NVAs)

Ecus Ltd.

President Buildings, 4, Savile St E, Sheffield S4 7UQ



- Plate 57 **Group 8: 39** (08.07.24) – TH
- Plate 58 **Group 8: 39** (02.09.24) – TH
- Plate 59 **Group 8: 217** (12.08.24) – EO
- Plate 60 **Group 8: 217** (12.08.24) – JS

Vistry Yorkshire, Miller Homes & Countryside Partnerships Limited
Blackmoorfoot – Bat Emergence Surveys

Appendix 2: Darkest point photographs of Night Vision Aids (NVAs)

Ecus Ltd.

President Buildings, 4, Savile St E, Sheffield S4 7UQ



Plate 61 **Group 8: 40** (23.07.24) – EM

Plate 62 **Group 8: 40** (23.07.24) – KC

Plate 63 **Group 8: 40** (23.07.24) – AB

Plate 64 **Group 8: 39** (03.06.24) – KC

Vistry Yorkshire, Miller Homes &
Countryside Partnerships Limited
**Blackmoorfoot – Bat Emergence
Surveys**

Appendix 2: Darkest point
photographs of Night Vision Aids
(NVAs)

Ecus Ltd.

President Buildings, 4, Savile St E, Sheffield S4 7UQ

65



66



67



68



Plate 65 **Group 8: 8** (13.08.24) – KC

Plate 66 **Group 9: Bungalow** (02.08.24) – JS

Plate 67 **Group 9: Bungalow** (30.05.24) – NF

Plate 68 **Group 9: Bungalow** (04.07.24) – TL

Vistry Yorkshire, Miller Homes &
 Countryside Partnerships Limited
**Blackmoorfoot – Bat Emergence
 Surveys**

Appendix 2: Darkest point
 photographs of Night Vision Aids
 (NVAs)

Ecus Ltd.

President Buildings, 4, Savile St E, Sheffield S4 7UQ



Plate 69 **Group 9: 1** 17.06.24 – TL

Plate 70 **Group 9: 1** 17.06.24 – TL

Plate 71 **Group 9: House** (30.05.24) – KC

Plate 72 **Group 9: House** (04.07.24) – EB

Vistry Yorkshire, Miller Homes &
Countryside Partnerships Limited
**Blackmoorfoot – Bat Emergence
Surveys**

Appendix 2: Darkest point
photographs of Night Vision Aids
(NVAs)

Ecus Ltd.

President Buildings, 4, Savile St E, Sheffield S4 7UQ



Plate 73 **Group 10: 53** (07.08.24) – TL

Plate 74 **Group 10: 53** (07.08.24) – LS

Plate 75 **Group 10: 66** (06.06.24) – JS

Plate 76 **Group 10: 66** (06.06.24) – EB

Vistry Yorkshire, Miller Homes &
Countryside Partnerships Limited
**Blackmoorfoot – Bat Emergence
Surveys**

Appendix 2: Darkest point
photographs of Night Vision Aids
(NVAs)

Ecus Ltd.

President Buildings, 4, Savile St E, Sheffield S4 7UQ



Plate 77 **Group 10: 35 & 36 (23.07.24) – EO**

Plate 78 **Group 10: 35 & 36 (23.07.24) – JS**

Plate 79 **Group 10: 35 & 36 (23.07.24) – LS**

Plate 80 **Group 10: 13 (23.07.24) – AO**

Vistry Yorkshire, Miller Homes &
Countryside Partnerships Limited
**Blackmoorfoot – Bat Emergence
Surveys**

Appendix 2: Darkest point
photographs of Night Vision Aids
(NVAs)

Ecus Ltd.

President Buildings, 4, Savile St E, Sheffield S4 7UQ



Plate 81 **Group 11: 85** (01.07.24) – AW

Plate 82 **Group 11: 85** (01.07.24) – TL

Plate 83 **Group 11: 86** (01.07.24) – JS

Plate 84 **Group 11: 86** (01.07.24) – AB

Vistry Yorkshire, Miller Homes &
Countryside Partnerships Limited
**Blackmoorfoot – Bat Emergence
Surveys**

Appendix 2: Darkest point
photographs of Night Vision Aids
(NVAs)

Ecus Ltd.

President Buildings, 4, Savile St E, Sheffield S4 7UQ

85



86



87



88



Plate 85 **Group 12: SCA1** (01.08.24) – TH

Plate 86 **Group 12: SCA1** (01.08.24) – AB

Plate 87 **Group 12: SCA2** (01.08.24) – TL

Plate 88 **Group 12: SCA2** (01.08.24) – LS

Vistry Yorkshire, Miller Homes &
 Countryside Partnerships Limited
**Blackmoorfoot – Bat Emergence
 Surveys**

Appendix 2: Darkest point
 photographs of Night Vision Aids
 (NVAs)

Ecus Ltd.

President Buildings, 4, Savile St E, Sheffield S4 7UQ



Plate 89 **Group 12: 111** (17.07.24) – SB

Plate 90 **Group 12: 111** (11.06.24) – DH

Plate 91 **Group 12: 111** (11.06.24) – KC

Plate 92 **Group 12: 237** (01.08.24) – Ecus 03

Vistry Yorkshire, Miller Homes &
Countryside Partnerships Limited
**Blackmoorfoot – Bat Emergence
Surveys**

Appendix 2: Darkest point
photographs of Night Vision Aids
(NVAs)

Ecus Ltd.

President Buildings, 4, Savile St E, Sheffield S4 7UQ



Plate 93 **Group 13: 135** (14.08.24) – DH

Plate 94 **Group 13: 88** (14.08.24) – EM

Plate 95 **Group 13: 16** (14.08.24) – LS

Plate 96 **Group 13: 16** (14.08.24) – TL



Vistry Yorkshire, Miller Homes &
Countryside Partnerships Limited
**Blackmoorfoot – Bat Emergence
Surveys**

Appendix 2: Darkest point
photographs of Night Vision Aids
(NVAs)

Ecus Ltd.

President Buildings, 4, Savile St E, Sheffield S4 7UQ



Plate 97 **Group 13: 84** (14.08.24) – EO

Plate 98 **Group 13: 84** (14.08.24) – TL

Plate 99 **Group 13: 93** (14.08.24) – AO

Plate 100 **Group 13: 93** (14.08.24) – AW

Vistry Yorkshire, Miller Homes &
Countryside Partnerships Limited
**Blackmoorfoot – Bat Emergence
Surveys**

Appendix 2: Darkest point
photographs of Night Vision Aids
(NVAs)

Ecus Ltd.

President Buildings, 4, Savile St E, Sheffield S4 7UQ



Plate 101 **Group 14: 90** (30.05.24) – LS

Plate 102 **Group 14: 90** (30.05.24) – TH

Plate 103 **Group 14: 89** (29.05.24) – JS

Plate 104 **Group 14: 89** (29.05.24) – LS

Vistry Yorkshire, Miller Homes &
Countryside Partnerships Limited
**Blackmoorfoot – Bat Emergence
Surveys**

Appendix 2: Darkest point
photographs of Night Vision Aids
(NVAs)

Ecus Ltd.

President Buildings, 4, Savile St E, Sheffield S4 7UQ



Plate 105 **Group 15: A2** (25.05.24) – JS

Plate 106 **Group 15: A2** (20.05.24) – TL

Plate 107 **Group 15: A3** (20.05.24) – TH

Plate 108 **Group 15: A3** (20.05.24) – AB

Vistry Yorkshire, Miller Homes &
Countryside Partnerships Limited
**Blackmoorfoot – Bat Emergence
Surveys**

Appendix 2: Darkest point
photographs of Night Vision Aids
(NVAs)

Ecus Ltd.

President Buildings, 4, Savile St E, Sheffield S4 7UQ



Plate 109 **Group 15: A1** (20.05.24) – NF

Plate 110 **Group 16: Badger Hill** (02.08.24) – JS

