AEWC Ltd
Animal Ecology & Wildlife Consultants

Birch Walk
Lower Street
Fittleworth
West Sussex
RH20 1JE

Tel: +44(0)8452 505 585
Mob: +44(0)7764813002
**e-mail: info@aewc.co.uk**

# Bat Survey

# Northern United

Brigitte de Coriolis

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Registered Office: Birch Walk, Lower Street, Fittleworth, West Sussex, RH20 1JE
Registered in England and Wales No. 06527840

# Summary


- AEWC Ltd. were commissioned by Forest of Dean District Council to carry out a detailed bat survey of the site at Northern United. The surveys were required to inform the proposed demolition of three derelict buildings.

- AEWC Ltd. have carried out surveys and monitoring of bats across the site since 2013.

- Four evening emergence surveys were conducted on the 21st May, 12th June, 27th July and 14th September 2017. Six surveyors and four night vision video cameras were positioned around accessible areas of the buildings, with particular focus on features with bat access potential.

- The surveys show that the buildings are still being used by a small percentage of the lesser horseshoe colony. Additionally, the buildings are used by a low number of bats of other species. Peak counts for the buildings were: two common pipistrelles and two soprano pipistrelles emerged from the Bathhouse, one common pipistrelle and one soprano pipistrelle emerged from the Canteen, and one common pipistrelle emerged from the Office.

- The surveys have confirmed that all three buildings are used by bats. Aside from lesser horseshoe, the buildings are used by six other species of bat. The number of bats of each species recorded emerging from the buildings is low, typical of an intermittent or occasional roost for individual or low numbers of bats, rather than a maternity colony for any of these species.

- The proposed demolition of the Office, Canteen and Bathhouse will result in direct impacts on bats present and on the roost sites present, therefore a full EPS licence from Natural England will be required before any works can proceed.

# 1 Introduction

1.1 AEWC Ltd. were commissioned by Forest of Dean District Council to carry out a detailed bat survey of the site at Northern United. The surveys were required to inform the proposed demolition of three derelict buildings.

1.2 The surveys were carried out in accordance with Bat Surveys: Good Practice Guidelines (Bat Conservation Trust, 2016). This report details the results of four evening emergence surveys carried out on the 21st May, 12th June, 27th July and 14th September 2017.

1.3 The emergence surveys were designed to:

- Update the survey results for the site
- Identify the bat species present.
- Estimate the size and status of any existing bat roost within the buildings.
- Determine the potential impacts on any bat roost from the proposed demolition works.

***Legislation***

1.4 All species of bat in the UK are fully protected under Schedule 5 of the Wildlife and Countryside Act 1981 (as amended), and Schedule 2 of the Conservation (Natural Habitats, &c.) Regulations 2010. The Regulations implements the European Habitats and Species Directive (EC Directive 92/43/EEC). Bats are therefore European protected species.

1.5 The Act and Regulations give full protection to bats from intentional/deliberate killing, injuring, taking and reckless or intentional disturbance. In addition, bat breeding and resting places (i.e. bat roosts) are also protected from damage, destruction and reckless or intentional obstruction of access to such places.

1.6 A roost is defined as 'any structure or place which a bat uses for shelter or protection'. As bats tend to reuse the same roosts, legal opinion is that a roost is protected whether or not bats are present at the time of survey.

1.7 Barbastelle Bats *Barbastella barbastellus*, Bechstein's Bat *Myotis bechsteinii,* Noctule *Nyctalus noctula*, Soprano Pipistrelle *Pipistrellus pygmaeus*, Brown Long-eared Bat *Plecotus auritus*, Greater Horseshoe Bat *Rhinolophus ferrumequinum* and Lesser Horseshoe Bat *Rhinolophus hipposideros* are also listed as being species of principle importance to the conservation of biodiversity in England under Section 41 of the Natural Environment and Rural Communities Act 2006.

# 2 Background

2.1 A major regeneration development project is proposed for land to the north of Cinderford, referred to as the 'Cinderford Northern Quarter' of which a part of the site includes a number of now abandoned former colliery buildings for the former northern united site.

2.2 Three buildings remain on the northern united site, the Office (Building C), Canteen (Building G) and Bath House (Building H), which all have historical records of bats present, notably Lesser Horseshoe bats. the proposals for the site will result in the demolition of all three buildings and loss of all bat roosts present. See Figure 1

2.3 Surveys for Lesser horseshoe bats are ongoing through monthly monitoring reports (See AEWC yearly reports on Lesser Horseshoe monthly monitoring) however surveys for all species are required to inform for the development and demolition of the buildings on the site.

2.4 All species emergence surveys were last conducted in 2013, these and the monthly surveys over 4.5 years have identified a total of 7 species using the buildings.


**Figure 1:** Showing the three buildings on the site subject to survey.

2.5 Monthly monitoring of Lesser Horseshoe is still ongoing, these surveys were not to inform for the lesser Horseshoe activity but aimed at concentrating and identifying all other species that may be using the buildings.

# 3 Method

### Emergence Surveys

3.1 Four evening emergence surveys were conducted on the 21st May, 12th June, 27th July and 14th September 2017. Conditions were good for all bat surveys with warm weather and any bats still present were likely to be active. The emergence surveys began approximately 15 minutes before sunset and finished after 1 and a half hours after sunset on each survey.

3.2 Batlogger M bat detectors were used for taking time-expanded recordings of any bats when they may emerge from the buildings. These recordings were analysed on Elekon bat analysis software that facilitates species identification.

3.3 Professional night vision video cameras were used to film areas of the building with the assistance of an external infra-red lamp to accurately identify if bats emerge from that selected area of the building.

3.4 Surveyors and night vision video cameras were positioned around accessible areas of the buildings, with particular focus on features with bat access potential for a range of species not including horseshoes.

# 4 Results

### Emergence Surveys

4.1 **21st May -** Weather conditions were good for the survey (18°C with 60% cloud cover and a moderate breeze at 21:26) and any bats present were likely to be active. Six surveyors and four night vision cameras monitored the Office, Canteen and Bathhouse.

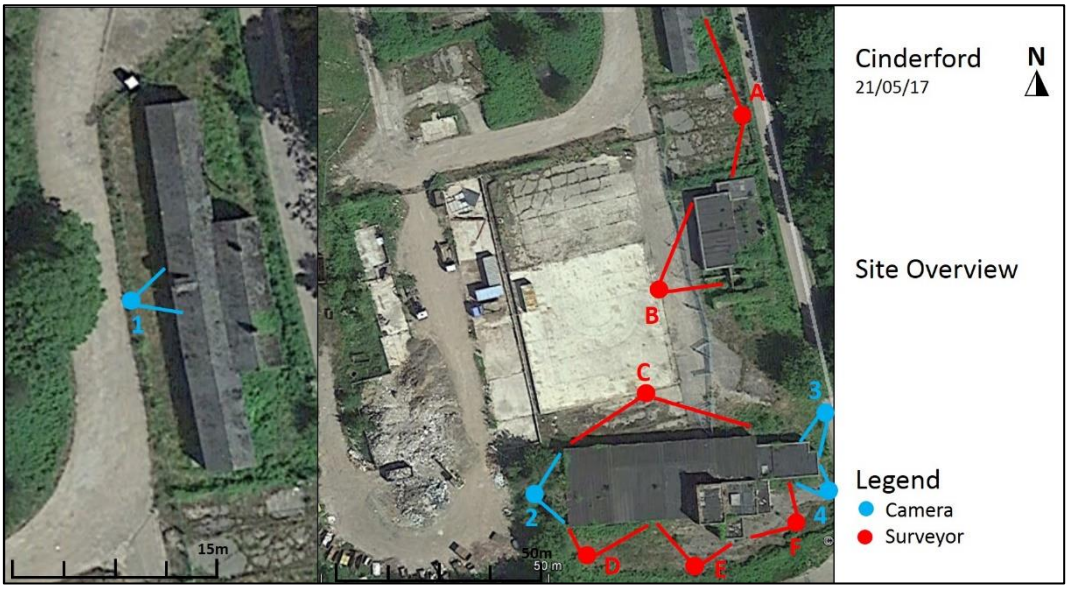


**Figure 1:** Showing positions of surveyors and cameras around the Office (left), Canteen and Bathhouse (right) on 21st May.

4.2 The survey identified a good level of foraging activity of common and soprano pipistrelle and lesser horseshoe, with passes of noctule and a myotis species also recorded, and a single greater horseshoe. Lesser horseshoes were identified emerging from and re-entering known emergence points: the porthole window on the western elevation of the office building, the two small windows on the south-east corner of the Bathhouse and the three windows on the western elevation of the Bathhouse. Aside from this, one common pipistrelle emerged from the southern side of the dormer window on the west elevation of the Office, and two common pipistrelles were identified emerging from the southern elevation of the Bathhouse: one from the flat roof just west of the tower, the other from the east-facing door to the east of the tower. Full results are detailed in Table A1 in the Appendix.

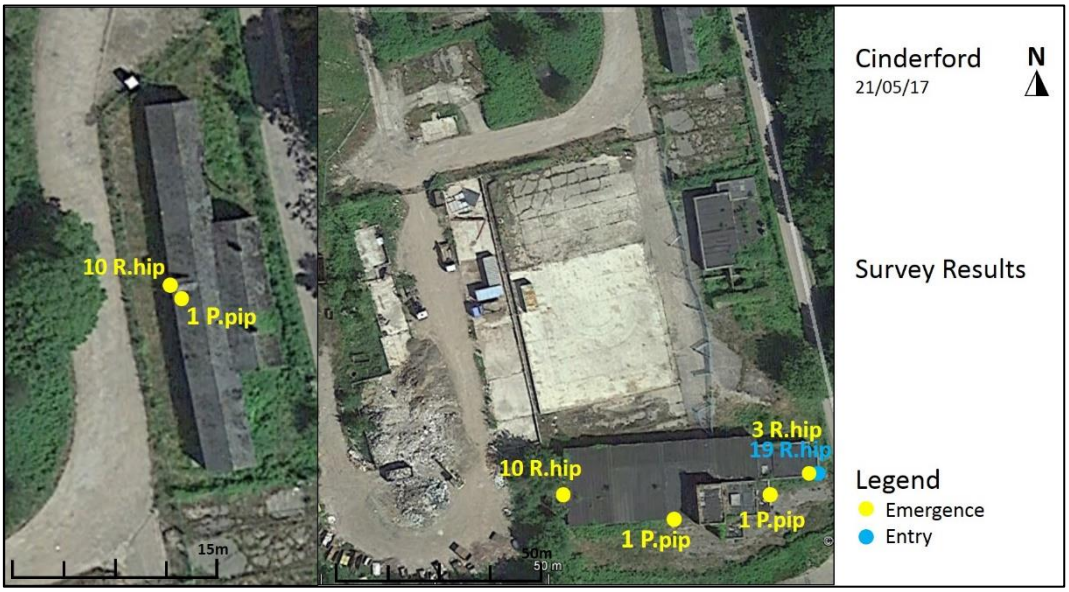


**Figure 2:** Showing emerging and re-entering bats recorded during the 21st May survey.

4.3 **12th June -** Weather conditions were good for the survey (14°C, clear and calm at 21:28) and any bats present were likely to be active. Six surveyors and four night vision cameras monitored the Office, Canteen and Bathhouse.

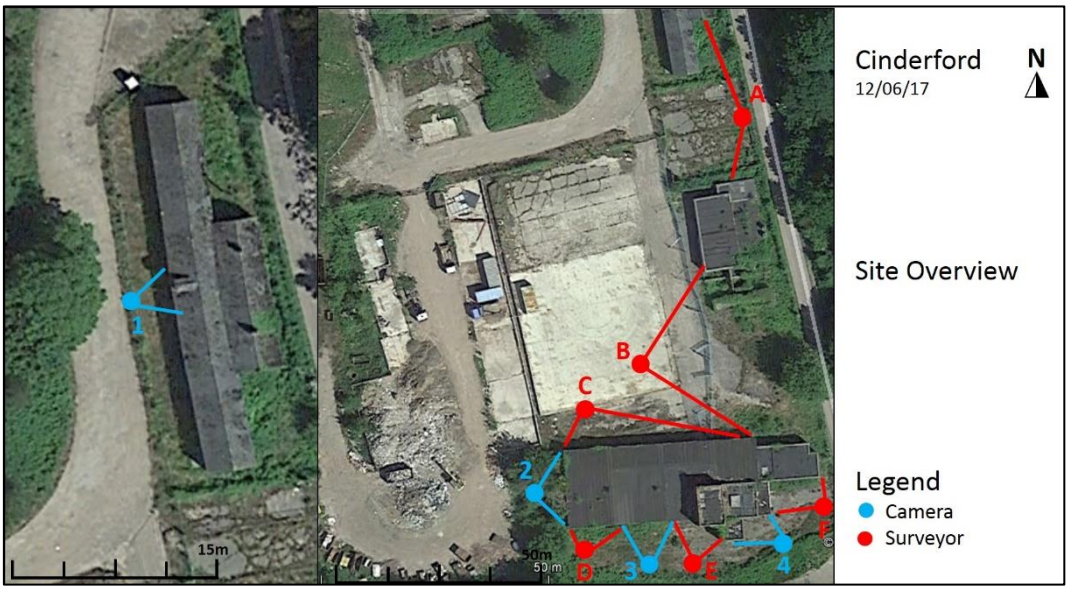

**Figure 3:** Showing positions of surveyors and cameras around the Office (left), Canteen and Bathhouse (right) on 12th June.

4.4 The survey identified a moderate level of foraging activity of common and soprano pipistrelle and lesser horseshoe, with a single noctule and long-eared bat pass recorded. Lesser horseshoes were identified emerging from and re-entering known emergence points: the porthole window on the western elevation of the office building, the two small windows on the south-east corner of the Bathhouse and the three windows on the western elevation of the Bathhouse. One soprano pipistrelle was identified emerging from the south-western corner of the Canteen building. Full results are detailed in Table A2 in the Appendix.

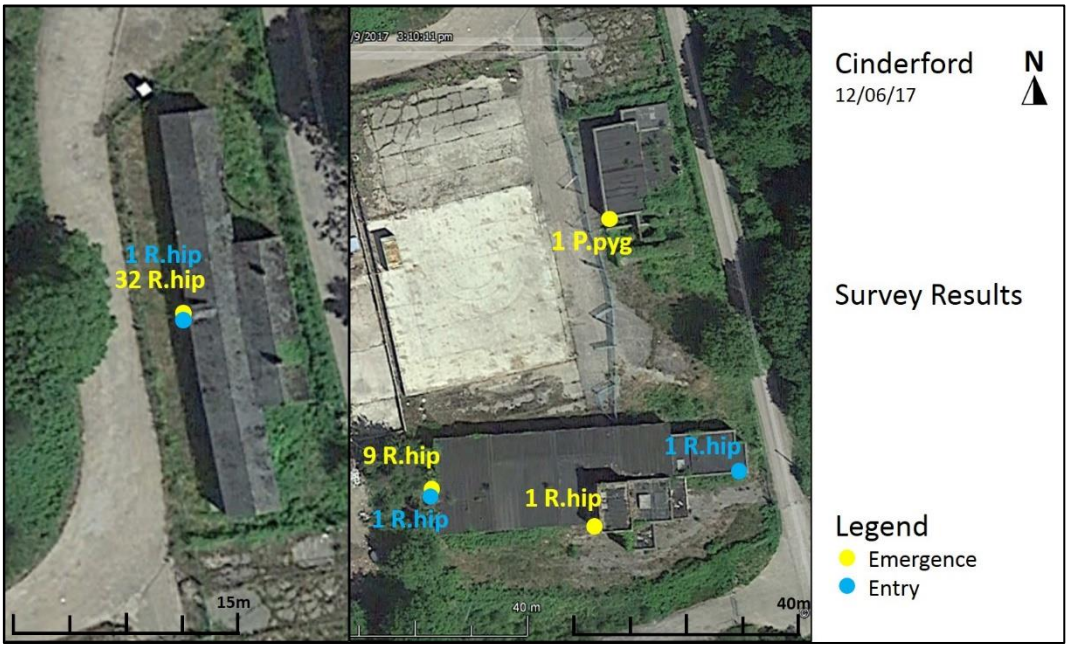


**Figure 4:** Showing emerging and re-entering bats recorded during the 12th June survey.

4.5 **27th July -** Weather conditions were good for the survey (16°C with 75% cloud cover and a moderate breeze at 21:08) and any bats present were likely to be active. Six surveyors and four night vision cameras monitored the Office, Canteen and Bathhouse.


**Figure 5:** Showing positions of surveyors and cameras around the Office (left), Canteen and Bathhouse (right) on 27th July.

4.6 The survey identified a moderate level of foraging activity of common and soprano pipistrelle and lesser horseshoe, with passes of noctule, long-eared bat and a myotis species also recorded. Lesser horseshoes were identified emerging from and re-entering known emergence points: the porthole window on the western elevation and roller door on the northern elevation of the Office building, the two small windows on the south-east corner of the Bathhouse and the three windows on the western elevation of the Bathhouse. No species other than lesser horseshoe bat were observed or recorded emerging from the buildings on this survey. Full results are detailed in Table A3 in the Appendix.


**Figure 6:** Showing emerging and re-entering bats recorded during the 27th July survey.

4.7 **14th September -** Weather conditions were okay for the survey (10°C and clear with a very slight breeze at 19:26) and any bats present were likely to be active. Six surveyors and four night vision cameras monitored the Office, Canteen and Bathhouse.

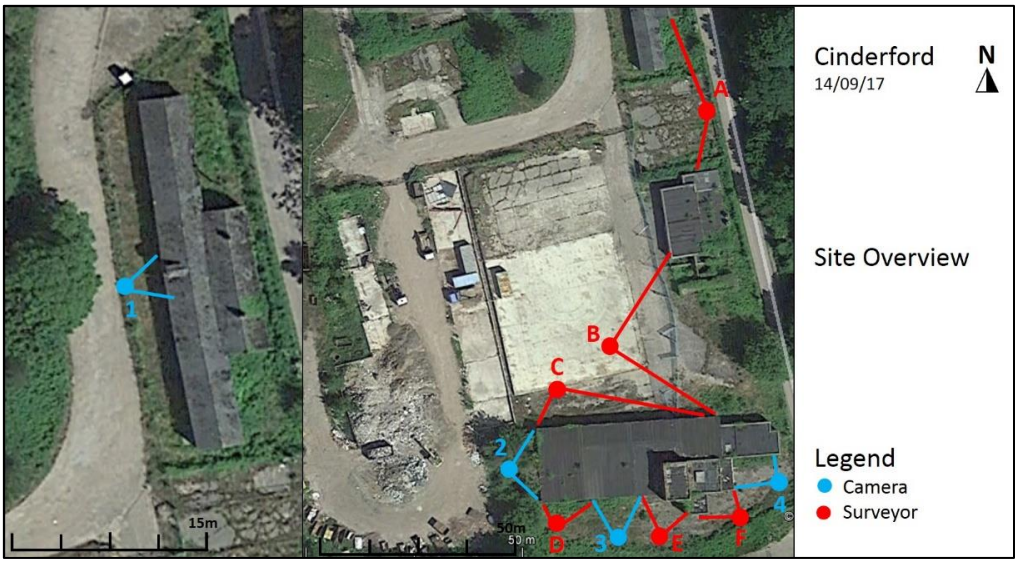


**Figure 7:** Showing positions of surveyors and cameras around the Office (left), Canteen and Bathhouse (right) on 14th September.

4.8 The survey identified a good level of foraging activity of common and soprano pipistrelle and lesser horseshoe, with several long-eared bat passes, and a pass of noctule barbastelle bat. Lesser horseshoes were identified emerging from and re-entering known emergence points: the porthole window on the western elevation of the office building, the two small windows on the south-east corner of the Bathhouse and the three windows on the western elevation of the Bathhouse. Aside from this, two soprano pipistrelles were identified emerging from the southern elevation of the Bathhouse, from the flat roof just west of the tower, and one common pipistrelle emerged from the southwestern corner of the Canteen, from the roof above the door. Full results are detailed in Table A4 in the Appendix.

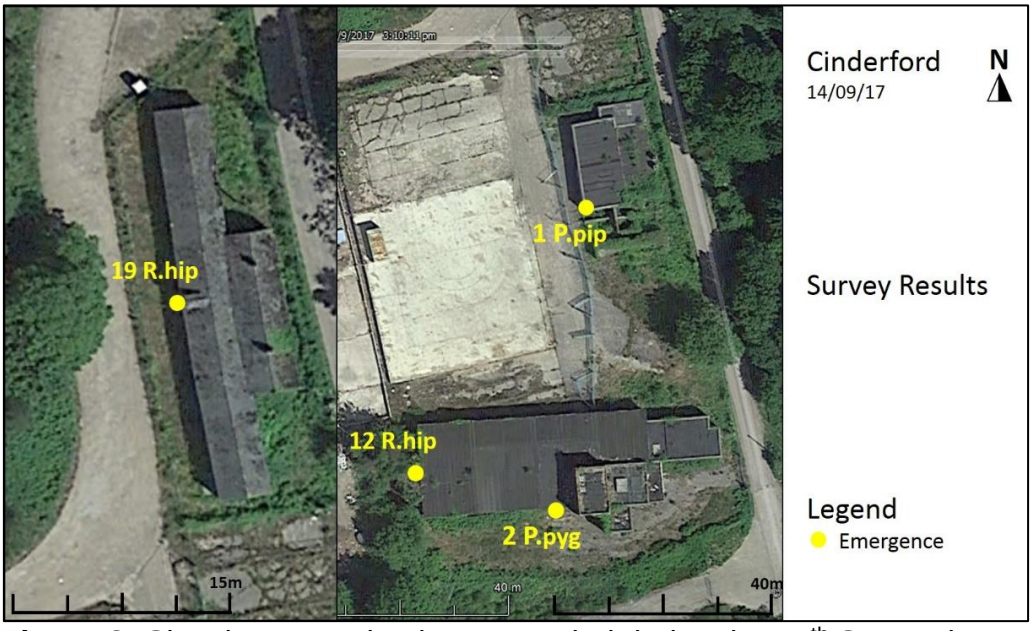


**Figure 8:** Showing emerging bats recorded during the 14th September survey.

# 5 Constraints/Limitations

5.1 Bats are difficult to locate in large structures, with so many potential roosting areas, particularly in inaccessible areas such as large buildings, finding the exact roosting site can be difficult, especially male/single bat roosting sites.

5.2 Bats can have seasonal use of buildings and being so mobile may arrive and start using a site after it has been surveyed, or roost somewhere else during the period it was surveyed. For this reason, bats may potentially be present but remain undetected, particularly during day time assessment.

# 6 Conclusions

6.1 The surveys show that the buildings are still being used by a small percentage of the lesser horseshoe colony, these are surveyed in greater detail in the monthly monitoring conducted at the site (See AEWC Lesser Horseshoe monthly monitoring report). Additionally, the buildings are used by a low number of bats of other species. Emergence surveys carried out in 2013 and 2017, and monthly monitoring since 2013, have recorded six additional species using the buildings (Table 1).

**Table 1:** Showing peak counts for bat species other than lesser horseshoe in each building from emergence and internal counts.

| Species | Office | | Canteen | | Bathhouse | |
|---|---|---|---|---|---|---|
| | 2013 | 2017 | 2013 | 2017 | 2013 | 2017 |
| Common pipistrelle | 2 | 1 | 2 | 1 | 3 | 2 |
| Soprano pipistrelle | 1 | 0 | 0 | 1 | 0 | 2 |
| Brown long-eared | 1 | 1 | 1 | 0 | 1 | 1 |
| Natterer's | 0 | 0 | 1 | 1 | 1 | 0 |
| Bechstein's | 0 | 0 | 0 | 0 | 1 | 0 |
| Greater horseshoe | 0 | 0 | 0 | 0 | 1 | 0 |

6.2 The number of bats of each species recorded emerging from the buildings is low, typical of an intermittent or occasional roost for individual or low numbers of bats, rather than a maternity colony for any of these species.

6.3 Bats are protected under the Wildlife and Countryside Act 1981 (as amended) and the Conservation contravening (Natural Habitats &c.) Regulations 2010, (which make it illegal to intentionally kill, injure or otherwise disturb bats, or to damage, destroy or obstruct access to a bat roost, whether bats are present or not).

6.4 The proposed demolition of the Office, Canteen and Bathhouse will result in direct impacts on bats present and on the roost sites present, therefore a full EPS licence from Natural England will be required before any works can proceed.

# 7 References

Bat Surveys for Professional Ecologists: Good Practice Guidelines – Bat Conservation Trust 2016

Bat Workers Manual – Mitchell-Jones & McLeish 2004

Bat Mitigation Guidelines – Natural England 2006

The Conservation and Habitat Regulations 2010

## Appendix: Tables of full results

### Table A1: Results of the survey on 21st May 2017

| DATE | SURVEYOR POSITION | TIME | SPECIES | NOTES<br>NB - blackbird nesting in thick ivy on S side of Bathhouse tower |
|---|---|---|---|---|
| 21.05.17 | A | 2126 | P.pip | Flying E over S end of Office, not seen emerge |
| | | 2138 | P.pip | HNS down lane to E |
| | | 2141 | P.pip | Approached from E, foraging around S end of Office |
| | | 2154 | P.pip | HNS down lane to E |
| | | 2155 | P.pip | Semi-constant foraging activity around S end of Office |
| | | 2157 | R.hip | Commuted SW over surveyor and behind Canteen |
| | | 2158 | R.hip | Commuting, HNS |
| | | 2205 | P.pip & R.hip | Regular P.pip and intermittent R.hip foraging activity |
| | | 2215 | N.noc | HNS |
| | B | 2150 | Myotis sp. | HNS |
| | | 2153 | P.pip | Commuted from N, foraging in area |
| | | 2155 | P.pip | HNS |
| | | 2202 | P.pip | Two bats approached from S, foraging |
| | | 2207 | P.pyg | HNS |
| | | 2211 | N.noc | Two passes, HNS |
| | C | 2144 | P.pip | HNS |
| | | 2155 | P.pip | Two bats flying E along N elevation of Bathhouse until 2159 |
| | | 2204 | P.pip & P.pyg | HNS |
| | | 2207 | Myotis sp. | HNS |
| | | 2212 | Myotis sp. | HNS |
| | | 2214 | P.pip & N.noc | HNS |
| | | 2217 | R.fer | Very brief pass, HNS |
| | | 2221 | N.noc | HNS |
| | D | 2110 | P.pyg | HNS |
| | | 2129 | P.pyg | Flying E, foraging |
| | | 2148 | R.hip | HNS |
| | | 2151 | P.pyg | HNS |
| | | 2155 | R.hip | HNS |
| | | 2201 | P.pyg | Foraging along S elevation for remainder of survey |
| | | 2211 | R.hip | HNS |
| | E | 2110 | P.pyg | Brief distant call, HNS |
| | | 2118 | P.pip | Emerged from flat roof to the west of the tower |
| | | 2123 | P.pip | Foraging, HNS |
| | | 2130 | P.pyg | Flew E along S side of Bathhouse |
| | | 2136 | No ID | Silent bat flew S over Bathhouse just W of tower, flying very close to flat roof |
| | | 2139 | No ID | Silent bat flew S over Bathhouse just W of tower, flying very close to flat roof |
| | | 2140 | No ID | Silent bat flew S over Bathhouse just W of tower, flying very close to flat roof |
| | | 2141 | R.hip | Intermittent passes for several minutes, HNS |
| | | 2141 | N.noc | HNS |
| | | 2144 | P.pyg | HNS |
| | | 2146 | R.hip | Two bats flew S over Bathhouse just W of tower, flying very close to flat roof |
| | | 2149 | P.pip | Approached from S, flew E |
| | | 2151 | P.pyg | Regular foraging along S elevation of Bathhouse until end of survey |
| | | 2158 | Myotis sp. | Two bats foraging in front of tower |

| | | | | |
|---|---|---|---|---|
| | | 2204 | R.hip | HNS |
| | | 2213 | R.fer | HNS |
| | F | 2118 | P.pip | Emerges from door |
| | | 2123 | P.pip | HNS |
| | | 2141 | N.noc | HNS |
| | | 2143 | R.hip | HNS |
| | | 2144 | P.pyg | Flying W along S elevation |
| | | 2149 | P.pip | Flying E along S elevation |
| | | 2151 | P.pyg | Two bats foraging along S elevation - regular foraging activity for remainder of survey |
| | | 2153 | R.hip | Light-testing and foraging at E end of building for several minutes |
| | | 2159 | Myotis sp. | Flying W along S elevation |
| | | 2205 | P.pip | Foraging |
| | | 2213 | R.fer | HNS |
| | | 2215 | N.noc | HNS |
| | | 2219 | N.noc | HNS |
| | CAM 1 | | P.pip | 1 bat emerged from southern dormer cheek 27 minutes after sunset |
| | | | R.hip | 9 bats recorded emerging from the porthole window on the W elevation of the Office |
| | CAM 2 | | R.hip | 10 bats recorded emerging from the middle of the three windows on the W elevation of the Bathhouse |
| | CAM 3 | | R.hip | No bats recorded emerging. Bats recorded flying in front of camera, typical R.hip and this is a known night roost location |
| | CAM | | R.hip | Bats recorded entering, and occasionally emerging from, the two small windows, 19 bats entered in total |

Table A2: Results of the survey on 12th June 2017

| DATE | SURVEYOR POSITION | TIME | SPECIES | NOTES |
|---|---|---|---|---|
| 12.06.17 | A | 2210 | P.pip | Commuting S along the track to the E |
| | | 2215 | P.pip | Near-constant activity with bats continuously commuting/foraging along track to E of buildings, along woodland edge |
| | | 2215 | R.hip | Commute S |
| | | 2220 | P.pip | Social calls along track to E |
| | | 2234 | Myotis sp. | HNS |
| | B | 2209 | P.pyg | Possible emergence from S end of W elevation, just below flat roof |
| | | 2227 | N.noc | Distant, HNS |
| | | 2238 | P.pip | HNS |
| | | 2242 | P.pyg | HNS |
| | C | 2209 | P.pyg | Approached from E, flew SW over the Bathhouse |
| | | 2238 | P.pip | HNS |
| | | 2242 | P.pyg | HNS |
| | D | 2159 | R.hip | Three brief passes at SW corner of building |
| | | 2212 | R.hip | Foraging at SW corner of building |
| | | 2218 | R.hip | Foraging at SW corner of building |
| | | 2223 | P.pyg | Brief pass, HNS |
| | | 2227 | N.noc | HNS |
| | E | 2151 | P.pip | Heard not seen |
| | | 2204 | R.hip | Two brief passes, HNS |
| | | 2207 | R.hip | Two brief passes, HNS |
| | | 2214 | R.hip | Flew S over roof just W of tower |
| | | 2216 | R.hip | Appeared to emerge in corner just below W edge of tower |
| | | 2218 | R.hip | Flying above roof just W of tower |
| | | 2220 | P.pyg | Commuting W on S side of building |

| | | | | |
|---|---|---|---|---|
| | | 2222 | R.hip | Flying E above roof towards tower. |
| | | 2224 | N.noc | Commuting HNS |
| | | 2224 | R.hip | Occasional passes until 2238, HNS |
| | | 2235 | P.pip | Commuting HNS |
| | | 2238 | R.hip | Two bats flying above roof |
| | | 2245 | P.aur | Brief pass, HNS |
| | F | 2208 | No ID | Silent bat approached from N and flew W |
| | | 2211 | No ID | Silent bat approached from N and flew W |
| | | 2211 | R.hip | Flew low past building, heading E |
| | | 2214 | No ID | Silent bat approached from N and flew W |
| | | 2217 | R.hip | Entered building at S hole on SE corner |
| | | 2218 | No ID | Silent bat flying above building |
| | | 2223 | P.pyg | Approached from the W and headed S |
| | | 2224 | R.hip | HNS |
| | | 2227 | N.noc | HNS |
| | | 2231 | R.hip | HNS |
| | | 2238 | N.noc | HNS |
| | | 2239 | P.pip | Approached from N, headed SW |
| | | 2247 | No ID | Silent bat approached from N and flew W |
| | CAM 1 | | R.hip | 32 bats recorded emerging from the porthole window on the W elevation of the Office, with one re-entering at the end |
| | CAM 2 | | R.hip | 9 bats recorded emerging from the middle of the three windows on the W elevation of the Bathhouse, 1 re-entered at the end |
| | CAM 3 | | | No bats were recorded emerging |
| | CAM 4 | | | No bats were recorded emerging |

Table A3: Results of the survey on 27th July 2017

| DATE | SURVEYOR POSITION | TIME | SPECIES | NOTES |
|---|---|---|---|---|
| 27.07.17 | A | 2130 | R.hip | Emerged from roller door, no echolocation |
| | | 2130 | P.pip | Foraging nearby to the NW |
| | | 2133 | R.hip | Emerged from roller door, flew E |
| | | 2134 | R.hip | Two bats emerged from roller door |
| | | 2135 | R.hip | Three bats emerged from roller door |
| | | 2136 | R.hip | Emerged from roller door |
| | | 2137 | R.hip | Two emerged from roller door |
| | | 2139 | R.hip | Emerged from roller door |
| | | 2154 | Myotis sp. | Flying NE over building |
| | | 2205 | P.auritus | Commuting, HNS |
| | | 2207 | P.pip | Distant, HNS |
| | B | 2130 | N.noc | Distant pass, HNS |
| | | 2147 | R.hip | Audible behind green door - inside building |
| | | 2156 | N.noc | HNS |
| | C | 2128 | N.noc | Commuting past |
| | | 2157 | N.noc | Commuting past |
| | | 2205 | R.hip | Audible inside building behind E doorway on N elevation |
| | | 2209 | P.aur | Brief pass, HNS |
| | | 2216 | P.pyg | Quiet pass |
| | D | 2131 | R.hip | Approached from E |
| | | 2136 | R.hip | Foraging overhead |
| | | 2148 | P.pyg | Pass overhead |
| | | 2151 | R.hip | Constant foraging at SW corner of building |
| | | 2157 | N.noc | HNS |
| | | 2158 | P.aur | Pass overhead |
| | | 2208 | R.hip | Foraging nearby |
| | | 2215 | P.pyg | Foraging nearby |
| | | 2223 | R.hip | HNS |
| | E | 2148 | P.pip | HNS |
| | F | 2149 | P.pyg | HNS |
| | | 2154 | P.aur | HNS |
| | | 2227 | R.hip | HNS |
| | CAM 1 | | R.hip | 35 bats were recorded emerging from the porthole window on the W elevation of the Office, with one re-entering at the end |
| | CAM 2 | | R.hip | 17 bats recorded emerging from the middle of the three windows on the W elevation of the Bathhouse |
| | CAM 3 | | | No bats were recorded emerging |
| | CAM 4 | | | No bats were recorded emerging |

Table A4: Results of the survey on 14th September 2017

| DATE | SURVEYOR POSITION | TIME | SPECIES | NOTES |
|---|---|---|---|---|
| 14.09.17 | A | 1927 | P.pip | Very brief commute down track |
| | | 1933 | P.pip | Commute high over trees E of site, heading from N to S |
| | | 1943 | P.pip | Very quiet, HNS |
| | | 1945 | P.pip | Semi-constant activity around the site |
| | | 1959 | R.hip | Flies over ridge of Office commuting E into woodland - appeared to emerge from dormer on W elevation |
| | | 2010 | P.pip | Activity dies off as it becomes cold |
| | | 2013 | Myotis sp. | HNS to the E |
| | | 2019 | Myotis sp. | Commute down track to E of buildings |
| | | 2023 | Myotis sp. | Commuting S down W side of Office |
| | B | 1926 | P.pip | Emerged from building, by door on roof, flew E |
| | | 1945 | P.pip | Distant pass, HNS |
| | | 1949 | No ID | Bird/bat flew from small doorway (did not echolocate), flew E |
| | | 2021 | P.pip | Pass and social calling |
| | | 2024 | N.noc | Pass, HNS |
| | | 2026 | P.pip | Flying around building and social calling until 2028 |
| | | 2034 | P.pip | Social calling nearby |
| | C | 1952 | P.pip | Approached from N, flew S over centre of roof |
| | | 2012 | P.pip | Brief, distant pass, HNS |
| | | 2022 | P.pip | Distant social calling, HNS |
| | | 2025 | P.pip | Social calling nearby, HNS |
| | | 2032 | P.aur | Quiet pass, HNS |
| | | 2042 | P.aur | Nearby, HNS |
| | D | 1932 | P.pyg | HNS |
| | | 1944 | R.hip | Emerged from W corner by ivy |
| | | 1945 | R.hip | 2 bats emerged from W corner by ivy |
| | | 1947 | R.hip | Emerged from W corner by ivy |
| | | 1950 | P.pip | Flying W along hedger |
| | | 1950 | R.hip | Flying S over building |
| | | 1952 | P.pyg | Flying E along hedge |
| | | 1952 | R.hip | Flying W along hedge |
| | | 1957 | R.hip | Flying N over building |
| | | 2000 | P.pip | Flying W over building |
| | | 2022 | R.hip | HNS |
| | E | 1932 | P.pyg | Emerged from flat roof to the west of the tower |
| | | 1933 | P.pyg | Emerged from flat roof to the west of the tower |
| | | 1945 | R.hip | Approached from E, heading SW |
| | | 1947 | R.hip | Flying low against the S elevation, heading W |
| | | 1949 | R.hip | Flew S over roof against the W elevation of the tower |
| | | 1952 | R.hip | Flew S over roof against the W elevation of the tower, then W |
| | | 1952 | R.hip | Flew S over roof against the W elevation of the tower, then E |
| | | 1953 | P.pyg | Distant pass, HNS |
| | | 1954 | R.hip | Flying W along S elevation |
| | | 2005 | P.aur | Foraging on S elevation low in front of tower |
| | | 2008 | P.aur | Flew N over flat roof |
| | F | 1936 | P.pyg | Flew S over building |
| | | 1944 | R.hip | Light sampling in window on E elevation |
| | | 1946 | R.hip | Light sampling in window on S elevation |
| | | 1947 | No ID | Silent bat approaches from N around E end and heads W |
| | | 1953 | P.pip | HNS |
| | | 1958 | No ID | Silent bat flew E over building |
| | | 2004 | No ID | Silent bat approached from W and flew N past E elevation |
| | | 2005 | P.pip | HNS |
| | | 2011 | B.bar | HNS |

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|---|---|---|---|---|
| | | 2022 | P.pip | Social calling, HNS |
| | | 2026 | P.pip | HNS |
| | | 2028 | P.pip | HNS |
| | | 2032 | P.pip | Social calling, HNS |
| | | 2043 | P.pip | HNS |
| | CAM 1 | | R.hip | 19 bats recorded emerging from the porthole window on the W elevation of the Office |
| | CAM 2 | | R.hip | 12 bats recorded emerging from the middle of the three windows on the W elevation of the Bathhouse |
| | CAM 3 | | | No bats were recorded emerging |
| | CAM 4 | | | No bats were recorded emerging |