

West Cumberland Hospital: Phase 1b Demolition

Bat Survey Report and Nesting Bird Appraisal North Cumbria University NHS Trust

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Quality information

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West Cumberland Hospital: Phase 1b Demolition

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The methodology adopted and the sources of information used by AECOM in providing its services are outlined in this Report. The work described in this Report was undertaken by AECOM between September 2018 and November 2019 and is based on the conditions encountered and the information available during the said period of time. The scope of this Report and the services are accordingly factually limited by these circumstances. AECOM disclaim any undertaking or obligation to advise any person of any change in any matter affecting the Report, which may come or be brought to AECOM's attention after the date of the Report.

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Executive Summary

AECOM Limited (hereafter referred to as "AECOM") was instructed to carry out update bat surveys and a nesting bird appraisal within the Phase 1b area of West Cumberland Hospital, Homewood Road, Whitehaven.

The buildings within Phase 1b demolition area of the hospital will be demolished as part of a wider demolition programme; however, this report only covers those within Phase 1b which were undertaken in 2019. Prior to the demolition of the existing buildings, an update to the bat roost appraisal was required to re-assess the suitability of the buildings to support bat roosts. A preliminary bat roost appraisal of Buildings A, D, C and C annexe, and W1 was undertaken on 17th September 2018.

Buildings A, and D were assessed as having negligible suitability to support roosting bats and require no further bat surveys prior to demolition or an ecological watching brief during demolition.

Buildings C annexe and W1 were considered to have moderate suitability to support roosting bats and therefore a dusk emergence and a dawn re-entry survey were required on each building prior to demolition.

One emergence/re-entry survey was undertaken at both Building C annexe and W1 on 26th September and 27th September 2018; no bat roosts were identified during these surveys.

Buildings with moderate bat roost suitability require two separate survey visits comprising one dusk emergence and one dawn re-entry survey, spaced at least two weeks apart (preferably more) and with at least one survey undertaken between May and August (Collins, 2016). Consequently, one further survey was undertaken in 2019 at each building:

- Building C annexe with moderate bat roost suitability one dusk emergence survey, undertaken on 18th July 2019
- Building W1 with moderate bat roost suitability one dawn re-entry survey undertaken on 19th July 2019.

This report provides the results of the 2019 dusk and dawn surveys, covering W1 and Building C annexe, which completes the required surveys at this time and should be read in conjunction with the 2018 report (AECOM 2018).No bat roosts were identified during these surveys, therefore it is reasonable to conclude that roosting bats are not present and the buildings can be demolished without the requirement for further surveys or an ecological watching brief.

Evidence of nesting birds or regular use by birds was observed in buildings W1 and C in addition Building C annexe has multiple potential access points for nesting birds. Demolition of the buildings to during the bird breeding season (March to August inclusive) carries a risk of an offence under the Wildlife & Countryside Act 1981 (as amended) due to the likelihood that nesting bird species will be present within the structures. All buildings should be checked for active nests by an ecologist with the final check no more than 24 hours prior to demolition. If active nests are found, demolition must stop, and an exclusion zone established (depending on species) until any young have fledged.

1. Introduction

Background

- 1.1 AECOM Limited (hereafter referred to as "AECOM") was instructed to carry out update bat surveys within the Phase 1b demolition area of West Cumberland Hospital, Homewood Road, Whitehaven, Cumbria, hereafter referred to as "the Site". The boundary of the Site is shown on the figure in **Appendix A**.
- 1.2 The re-development of West Cumberland Hospital will involve the phased demolition of the majority of buildings within the main hospital complex; however, this report only covers those buildings within the Phase 1b demolition area. The proposed re-development of the Site will result in the loss of four buildings which are included in the Phase 1b area: Building A, Building C including C annexe, Building D, and Building W1.
- 1.3 West Cumberland Hospital is situated in the area of Hensingham, in Whitehaven. Hensingham is located approximately 3 km east of the north-west coast of Cumbria, England. The hospital is bounded to the north-west by Homewood Road and by Homewood Drive to the west. Beyond these two boundaries are residential developments. Homewood Hill roughly forms the southern boundary and grassland fields lie immediately east and north-east.
- 1.4 The majority of West Cumberland Hospital is dominated by buildings and small areas of amenity grassland, with some scrub and scattered trees in the south of the hospital grounds which lie outside of the footprint of the re-development. Most of the hospital complex is bounded by a metal fence. The adjacent fields include improved and semi-improved grassland, with hedgerows as boundaries and some scattered trees.

Review of Previous Survey Work

- 1.5 Bat surveys were previously undertaken at the Site by AECOM in 2009 and 2010 which were presented in the West Cumberland Hospital Redevelopment Phase 1 Habitat and Bat Report (AECOM, 2010). In 2009, AECOM carried out daytime external and internal inspection surveys of the buildings within the Site to assess the suitability of the buildings for roosting bats (AECOM, 2010). The buildings within the Site were subject to three bat dusk emergence/ dawn re-entry surveys one in October 2009 and two in April 2010 (AECOM, 2010).
- 1.6 The report identified two of the Phase 1b buildings as having suitability to support roosting bats; Building C annexe was identified as having moderate suitability and Building W1 was identified as having low suitability. Buildings A, C, and D were assessed as having negligible suitability for roosting bats (AECOM, 2010).
- 1.7 The surveys in 2009 and 2010 (AECOM, 2010) did not identify the presence of any bat roosts within the Phase 1b buildings (A, C, C annexe, D, and W1) which are the focus of this report or within the other buildings surveyed within West Cumberland Hospital.
- 1.8 The previous bat surveys of the Site undertaken in 2009 and 2010 are now considered out-ofdate for planning purposes; in addition, due to changes in survey guidelines since 2010 the surveys need to be updated to be in line with current survey best practice guidelines (Collins, 2016).
- 1.9 Further surveys were undertaken in September 2018 in accordance with current best practice guidance for bat survey (Collins, 2016). This included a refresh of the external and internal inspection surveys of the buildings within the Site, undertaken on 17th September 2018, to assess the suitability of the buildings for roosting bats (AECOM, 2018). Following this, two buildings (W1 and Building C annexe) were identified as having moderate suitability to support roosting bats and were therefore subject to one dusk emergence and one dawn re-entry survey on each building in September 2018. For the methods and results of the external and internal

inspections and the initial dusk emergence and dawn re-entry surveys undertaken in September 2018, please refer to the 2018 bat survey report (AECOM, 2018).

1.10 Due to the initial bat roost appraisal being undertaken late into the bat survey season, it was not possible to complete two surveys within the optimal survey period identified in the guidelines, and therefore a further dusk emergence or dawn re-entry survey was undertaken in July 2019 on buildings W1 and Building C annexe.

Scope of the Report

- 1.11 This report contains the methods and results of the following assessments and surveys undertaken by AECOM in 2019 which comprises: Dusk emergence/ dawn re-entry surveys on two of the buildings within the Site (buildings W1 and Building C annexe). The purpose of this report is to complete the 2018 update of the survey work undertaken by AECOM in 2009 and 2010 to inform any future planning/demolition application and the preparation of a detailed mitigation strategy in relation to bats for the proposed demolition, (should it be required) by providing an additional dusk emergence or dawn re-entry survey, undertaken in July 2019, and hence fulfil the requirement of two surveys following the identification of moderate suitability on buildings Building C Annexe and W1.
- 1.12 In 2018 a nesting bird assessment was also undertaken, and the 2018 assessment has been included within this report as a reminder with regards to required mitigation. Any additional notes with regards to birds from the 2019 survey work have been added.

Legislation

Bats

- 1.13 All species of bats are fully protected under the Wildlife and Countryside Act 1981 (as amended) and the Conservation of Habitats and Species Regulations 2017 (as amended). Under this legislation it is illegal to:
 - intentionally or recklessly kill, injure, or capture a bat;
 - intentionally or recklessly disturb a bat when it is occupying a roost; and
 - intentionally or recklessly damage, destroy or obstruct access to bat roost.
- 1.14 A bat roost is defined as being 'any structure or place that is used for shelter or protection', and since bats regularly move roost site throughout the year, a roost is protected whether or not bats are present at the time.
- 1.15 It is illegal to carry out work affecting bats or their roosts. Licences to permit otherwise illegal activities relating to bats and their roost sites can be issued for specific purposes and by specific licensing authorities in each country. These are called European Protected Species Mitigation Licences (EPSMLs) and are issued under the Conservation of Habitats and Species Regulations 2017 (as amended). It is an offence not to comply with the terms and conditions of an EPSML.

Nesting Birds

- 1.16 All species of bird are protected under Section 2 of the Wildlife and Countryside Act 1981 (as amended). This legislation makes it an offence to intentionally:
 - kill, injure or take any wild bird;
 - take, damage or destroy the nest of any wild bird while that nest is in use or being built; or
 - take, destroy an egg of any wild bird.

2. Methods

Desk Study

- 2.1 In September 2018 existing records of bats within a 1 km search radius from the Site were requested from Cumbria Biodiversity Data Centre (CBDC). CBDC is the local ecological record centre for the Cumbria region.
- 2.2 The MAGIC website (http://magic.defra.gov.uk/) was used to search for any granted Natural England EPSML applications relating to bats within 1 km of the Site.
- 2.3 A review was undertaken of the existing ecology survey report for the Site, AECOM West Cumberland Hospital Redevelopment Phase 1 Habitat and Bat Report (AECOM 2010).

Field Surveys

2.4 All bat surveys were undertaken in accordance with current best practice guidance for bat survey (Collins, 2016). Please refer to the 2018 bat survey report (AECOM 2018) for survey methods and results relating to the updated preliminary bat roost appraisal undertaken in September 2018. Photographs of the relevant buildings can be found in Appendix B.

Dusk Emergence and Dawn Re-entry Surveys

- 2.5 Following the surveys carried out in September 2018 (AECOM 2018), the results of an external and internal assessment of the buildings identified that two buildings (W1 and C annexe) were of moderate suitability to support roosting bats. As a result, these two buildings were subject to one dusk emergence/dawn re-entry survey in September 2018. Further details of which can be seen in AECOM (2018). A further dusk emergence/dawn re-entry survey was recommended, and therefore undertaken in July 2019, as summarised in Table 1.
- 2.6 During the dusk survey of Building C annexe on 18th July 2019, surveyors were situated with views of the features identified on the north west, south west and east of the building. During the dawn survey of Building W1 on 19th July 2019, surveyors were situated with views of the features on the south east, north east, north west and south west of the building.

Building Reference	Bat Roost Suitability	Survey Dates
C annexe	Moderate	18 th July 2019 (dusk)
W1	Moderate	19 th July 2019 (dawn)

Table 1: Summary of Dusk Emergence and Dawn Re-Entry Surveys 2019

- 2.7 The surveys undertaken in 2019 were led by an AECOM ecologist who is registered to use the Natural England level 2 bat survey class licence and were assisted by suitably experienced ecologists.
- 2.8 The time, location, number, species (where possible), and direction of flight were recorded for each bat pass (either echolocation heard, or activity seen) encountered during each survey visit.

- 2.9 The surveys were carried out using Batlogger M (heterodyne, with automatic tuning) to allow sonogram analysis. Elekon bat scanner, Anabat SD2 and Zoom recorder were also used. Notes were made on the weather conditions during each survey, which are included within the results section below.
- 2.10 The dusk emergence surveys were undertaken in the evening commencing approximately fifteen minutes before sunset and continued for a further ninety minutes after sunset.
- 2.11 The dawn re-entry surveys commenced approximately ninety minutes before sunrise and ended approximately at sunrise.

Nesting Birds

- 2.12 During the preliminary bat roost appraisal in 2018, any evidence of nesting birds was recorded; the survey did not include a full or specific check for nesting birds however incidental findings were recorded.
- 2.13 The building inspection was undertaken outside of the bird nesting season so nests present were unlikely to be in use at time of survey and breeding/nesting behaviour wouldn't have been apparent. Evidence of use of buildings by nesting birds can include accumulations of bird droppings or feathers inside buildings and bird nests.

Quality Assurance

2.14 The fieldwork, reporting and technical reviews were undertaken by suitably experienced ecologists and reviewed by ecologists who are members of the Chartered Institute of Ecology and Environmental Management (CIEEM). The preliminary bat roost appraisal and dusk emergence and dawn re-entry surveys were led by an AECOM ecologist who is registered to use the Natural England level 2 bat survey class licence and assisted by suitably experienced ecologists.

Limitations

- 2.15 The aim of a desk study is to help characterise the baseline context of a proposed development and provide valuable background information that would not be captured by site surveys alone. However, a lack of records for a particular species does not necessarily mean that the species does not occur in the study area. Likewise, the presence of records for particular species does not automatically mean that these still occur within the area of interest or are relevant in the context of the proposed development.
- 2.16 The findings presented in this report represent only the period within which the surveys were undertaken. Variations in these conditions can be expected to occur as a result of seasonal factors, population dispersal and changes in habitat over time.
- 2.17 The south east aspect of Building C annexe was not accessible due to the presence of tall fencing close to the building. Consequently, the south-east aspect of the building was not fully visible during the survey in July 2019. The surveyors were positioned so that if a bat flew from or towards this area during the survey the chance of detecting bats on both sides of the building was maximised whilst maintaining visibility of identified potential roost features. This was therefore not considered to affect the conclusions or outcomes of this report, if a bat was thought to have emerged then this would have been detected/recorded during the survey.

3. Results

Desk Study

- 3.1 CBDC identified one existing bat species record, from the last 10 years, within 1 km of the Site. The record from 2011 is a common pipistrelle (*Pipistrellus pipistrellus*) maternity roost with a count of 98 bats located approximately 1 km north of the Site boundary.
- 3.2 Two species of bats were identified commuting or foraging within the Site during surveys in 2009 and 2010 (AECOM, 2010): common pipistrelle and soprano pipistrelle (*Pipistrellus pygmaeus*).
- 3.3 No Natural England EPSML granted applications were identified within 1 km of the Site.

Field Surveys

Dusk Emergence and Dawn Re-entry Surveys

- 3.9 During the dusk emergence survey of Building C annexe on 18th July 2019, no bats were observed emerging from the building. Only one common pipistrelle pass was recorded during the survey period. This was recorded at 21:57hrs, and was observed foraging until 22:15hrs.
- 3.10 During the dawn re-entry survey of Building W1 on 19th July 2019 covering the north-east, south-east, north-west and south-west, no bats were observed entering the building. Common pipistrelle bat passes were recorded at 04:24hrs, 04:27hrs and 04.28hrs. Five common pipistrelle bats were also recorded as being heard but not seen during the survey.
- 3.11 The survey sheets for July 2019 are provided within **Appendix C**. The weather conditions are presented within Table 2 below.

Building Reference	Date	Weather Conditions	Sunset/Sunrise and Start and End Times
C annexe	18 th July 2019 (dusk)	15-16°C, no wind, 6-8/8 cloud cover, no rain	Sunset: 21:38 hrs Start Time: 21:25 hrs End Time: 22:55 hrs
W1	19 th July 2019 (dawn)	14-16°C light breeze, 5- 6/8 cloud cover, no rain	Sunrise: 05:03 hrs Start Time: 03:30 hrs End Time: 05:00 hrs

Table 2: Weather Conditions of 2019 survey

Nesting Birds

- 3.12 Feral pigeons (*Columba livia domestica*) were observed in and around a missing panel on the north-east elevation of Building C annexe during the preliminary bat roost appraisal in 2018. The missing panel provides access above a suspended ceiling on the ground floor. There is evidence of regular use of this area by feral pigeons including a build-up of droppings on the ground below the entrance.
- 3.13 A flock of jackdaws (*Corvus monedula*) was observed in the Site throughout the preliminary bat roost appraisal and was recorded on the higher parts of Building C. No evidence of jackdaw nests or nesting behaviour was observed during the survey. The balconies on the upper floors of Building C contained accumulations of bird droppings and feathers indicating regular use by pigeons although no nests were observed.

- 3.14 A bird's nest was recorded above a missing tile in the suspended internal ceiling at the southern end of Building W1. The nest was close to the rolling shutter doors which had gaps around the outside providing access to the nest location. The nest was empty during the survey and no birds were observed in the vicinity. The nest was of the size and structure of a small passerine bird, but the species is unknown.
- 3.15 No evidence of nesting birds was observed at Building C annexe however there are a number of access points which could enable birds to be able to nest within the structure.

4. Conclusion and Recommendations

Building C Annexe and W1

- 4.1 Buildings C annexe and W1 were noted to be of moderate suitability to support roosting bats.
- 4.2 One emergence/re-entry survey was undertaken at each of Buildings C annexe and W1 on 26th September and 27th September 2018; no bat roosts were identified during these surveys.
- 4.3 A second emergence/re-entry survey was undertaken at each of Building C annexe and W1 on 18th July and 19th July 2019; again, no bat roosts were identified during these surveys.
- 4.4 The surveys conducted are considered to have gathered sufficient data to conclude that roosting bats are unlikely to be present. Therefore, no further assessments are required in relation to roosting bats, providing works are undertaken within 12 months of this report. Should works not be carried out within 12 months of this report, further surveys may be required to determine whether the present conclusions are still valid.

Nesting Birds

- 4.5 Evidence of nesting birds or regular use by birds was observed in buildings W1. In addition, Building C annexe has multiple potential access points for nesting birds.
- 4.6 Demolition of the buildings during the core bird breeding season (March to August inclusive) carries a risk of an offence under the Wildlife & Countryside Act 1981 (as amended) due to the higher risk that nesting bird species will be present within the buildings, when compared to the typical non-breeding season. If it is not possible to demolish the buildings outside of the bird breeding season, all buildings should be checked for active nests by an ecologist, with the final check no more than 24 hours prior to demolition. If active nests are found, demolition must stop, and an exclusion zone established (depending on species) until any young have fledged. It is noted that some species, including feral pigeons, are more prone to breeding outside the typical breeding season and should an active nest be discovered, the same measures will need to be implemented in order to avoid damage to the nest.

5. References

AECOM (2010) West Cumberland Hospital Redevelopment Phase 1 Habitat and Bat Report WCH-ACM-ZZ-ZZ-GN-S-XX-1006-P02

AECOM (2018) West Cumberland Hospital: Phase 1b Demolition Bat Survey Report

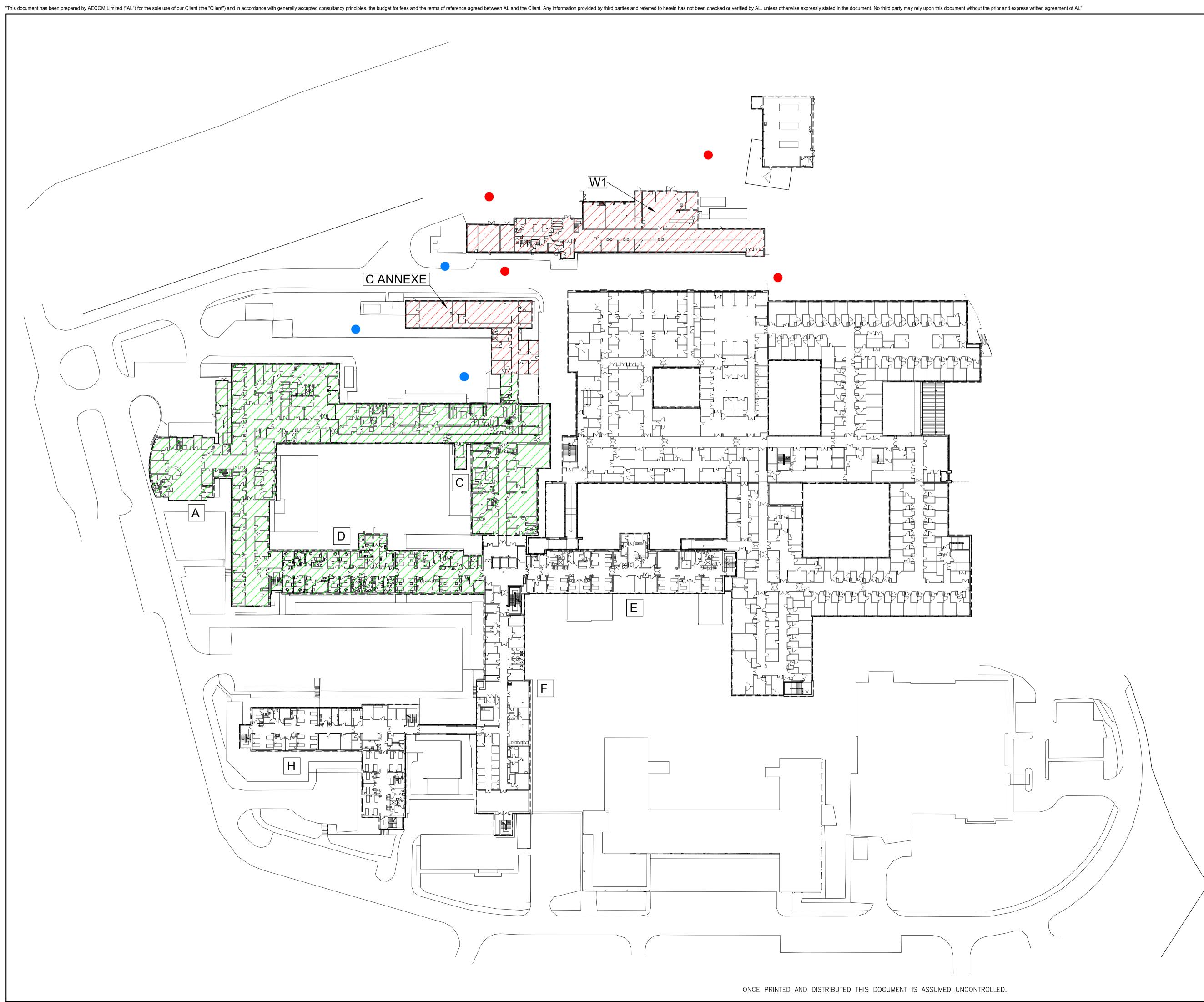
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MAGIC website http://magic.defra.gov.uk/ accessed 25th September 2018 and September 2019

The Conservation of Habitats and Species Regulations 2017 (Statutory instrument No. 1012)

Wildlife and Countryside Act 1981 (as amended)





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Appendix B Photographs

Description

Photograph

Photograph 1: Builidng C and C annexe view from north of buildings.



Photograph 2: Building C annexe – southern two storey section, north-west elevation.



Photograph 3: Building C annexe – dislodged boarded window, north-east elevation.

Photograph



Photograph 4: Building C annexe – gaps under fascia, north-east elevation.



Photograph

Photograph 5: Building C appeye

Building C annexe – single storey section, north-east and north-west elevations.



Photograph 6:

Building C annexe – example of gaps above windows on north-east and north-west elevations.



Photograph

Photograph 7: Building C annexe – bat dropping on exterior window frame on north-east elevation.



Photograph 8: Building C annexe – ventilation grate on northwest gabel end.



Photograph

Photograph 9: Building W1 – north-east and north west elevations.



Photograph 10: Building W1 – south-east of building, exterior of workshop area.



Photograph

Photograph 11: Building W1 – north-east of building, exterior of workshop area.



Photograph 12: Building W1 – holes in soffits on northern end of north-east elevation.



Photograph

Photograph 13: Building W1 – Warped wood above door on southern end of north-east elevation, at workshop area.



Photograph 14: Building W1 – interior of workshop area.



Photograph

Photograph 15: Building W1 – gaps around rolling shutter door, southern end of building.

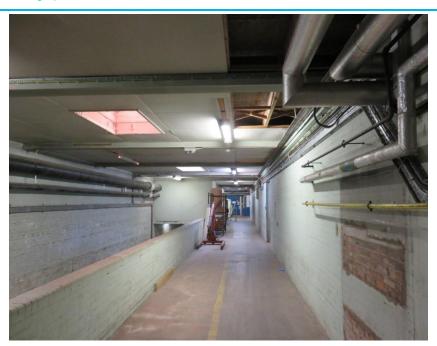


Photograph 16: Building W1 – Missing ceiling tiles with bird nest inside from rolling shutter door at southern end of building.



Photograph

Photograph 17: Building W1 - interior corridor view from southern end of building.



Appendix C Survey Sheets

Project Name		West Cumberland Hospita	I – Phase 1b demolition	Surveyor name (and location if applicable)			AP – South west of Building C annexe
Survey Location	n	Building C annexe		Temperatu	re °C		16°C
Date		18 ^{⊤H} July 2019		Wind (0-7)			0
Start		21:25	21:25		Rain (0-5)		0
Sunrise/Sunset		21:38		Cloud Cov	er (0-8)		8
Finish		22:55		Weather description			Mild, overcast, heavy rain showers 5 hours prior to survey
Equipment Use	d	Elekon bat scanner and A	nabat SDR	Recording	s verified (nam	e and date)	-
Time on Track	Real Time	Species*	No. of bats	No. of passes	Emerge (Y/N)	Recording (Y/N)	Description
21:57		Common pipistrelle	1	N Yes		Yes	Foraging until 22:15, did not see emerge
-	-	-	-			-	-
-	-	-	-	-	-	-	-

Project Name		West Cumberland Hospital – Phas	e 1b demolition	Surveyor name (and location if applicable)			MH – East of building C annexe
Survey Locatio	on	Building C annexe		Temperature	°C		15°C
Date		18 th July 2019		Wind (0-7)			0
Start		21:25		Rain (0-5)			0
Sunrise/Sunse	t	21:38		Cloud Cover (0-8)			6-7
Finish		22:55		Weather description			Dry, had rained earlier, dry previous evening (8pm)
Equipment Use	ed	Zoom and bat box		Recordings v	verified (name	and date)	-
Time on Track	Real Time	Species*	No. of bats	No. of passes	Emerge (Y/N)	Recording (Y/N)	Description
-	-	-	-	-	-	-	No bat activity recorded.
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

Project Name		West Cumberland Hospital – Phase	1b demolition	Surveyor name (and location if applicable)			PR – North west of building C annexe
Survey Locatio	on	Building C annexe		Temperature	°C		16°C
Date		18 th July 2019		Wind (0-7)			1
Start		21:25		Rain (0-5)			0
Sunrise/Sunse	t	21:38		Cloud Cover (0-8)			8
Finish		22:55		Weather description			Dry, had rained earlier, dry previous evening (8pm)
Equipment Use	ed	EM touch / Elekon bat scanner		Recordings v	verified (name	and date)	-
Time on Track	Real Time	Species*	No. of bats	No. of passes	Emerge (Y/N)	Recording (Y/N)	Description
-	-	-	-			-	No bat activity recorded.
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

Project Name		West Cumberland Hospital – Phase 1b demolition		Surveyor name (and location if applicable)			MH north–west corner of Building C annexe (north and west elevations)	
Survey Location	ı	Building W1		Temperature °C	;		14°C	
Date		19 th July 2019		Wind (0-7)			2	
Start		03:30		Rain (0-5)			0	
Sunrise/Sunset		05:03		Cloud Cover (0-8)			5-6	
Finish		05:00		Weather description			Dry, relatively still, dry previous evening	
Equipment Used	d	Bat box and zoom recorder		Recordings ver	ified (name	and date)	N/A	
Track	Time on Track	Real Time	Species*	No. of bats	Emerge (Y/N)	Recording (Y/N)	Description	
-	-	04:24	Common pipistrelle	1	No	Yes	Flew over, not seen.	
-	-	-	-			-	-	
-	-	-	-	-	-	-	-	

Project Nam	16	West Cumberland Hospital – Phase 1b demolition		Surveyor name applicable)	e (and locati	on if	AD – south east of building W1
Survey Loca	ation	Building W1		Temperature °	C		16°C
Date		19 th July 2019		Wind (0-7)			1
Start		03:30 Rain (0-5)		Rain (0-5)			0
Sunrise/Sur	iset	05:03		Cloud Cover (0-8)			6
Finish		05:00		Weather description			
Equipment	Used	Batlogger		Recordings ve	rified (name	and date)	N/A
Track	Time on Track	Real Time	Species*	No. of bats	Emerge (Y/N)	Recording (Y/N)	Description
-	-	04:28	Common pipistrelle	1	No	Yes	Heard not seen
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

Project Na	me	West Cumberla	and Hospital – Phase 1b demolition	Surveyor name (and location if applicable)		ion if	AP – south east of building W1
Survey Lo	cation	Building W1		Temperature ⁴	°C		15°C
Date		19 th July 2019		Wind (0-7)			1
Start		03:30		Rain (0-5)			0
Sunrise/Su	inset	05:03		Cloud Cover (0-8)			2-3
Finish		05:00		Weather description			Mild and still, some cloud. Previous evening mild, overcast, 16 °C
Equipment	t Used	Elekon bat sca	nner and Anabat SD2	Recordings v	erified (name	e and date)	N/A
Track	Time on Track	Real Time	Species*	No. of bats	Emerge (Y/N)	Recording (Y/N)	Description
-	-	03:30	Common pipistrelle	1	No	Yes	Very brief call, not seen
-	-	03:44	Common pipistrelle	1 No Yes		Yes	Very brief call, not seen
-	-	03:52	Common pipistrelle	1 No Yes		Yes	Very brief call, not seen
-	-	04:24	Common pipistrelle	1	No	Yes	Brief foraging bat alongside building
-	-	04:27	Common pipistrelle	1	No	Yes	Brief foraging bat alongside building

Project Name		West Cumberland Hospital – Phase 1b demolition		Surveyor name (and location if applicable)			PR –north east of building W1
Survey Location		Building W1		Temperature °C			14 °C
Date		19 th July 2019		Wind (0-7)			2
Start		03:25		Rain (0-5)			0
Sunrise/Sunset		05:03		Cloud Cover (0-8)			5
Finish		05:00		Weather description			Dry, cloudy, short heavy showers in the night
Equipment Used		EMT and Elekon Batscanner		Recordings verified (name and date)			-
Track	Real Time	Species*	No. of bats		Emerge (Y/N)	Recording (Y/N)	Description
-	03:52	Common pipistrelle	1		No	Yes	Heard not seen
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-