

7th November 2022 Our reference: 2022/07/09

51-53 Sandwich Road, Ash CT3 2BH Kent

Following a 'Preliminary Ecological Appraisal'¹ which identified the risk of bats being present in three buildings behind 52 New Street, Ash (assessed as having low suitability for roosting bats), KB Ecology Ltd was commissioned to undertake night-time bat surveys.

The Bat Conservation Trust's guidelines provide a table stating the 'minimum number of presence/absence survey visits required to provide confidence in negative preliminary roost assessment from buildings, built structures and trees in summer.

negative result for structures (also recommended for trees but unlikely to give confidence in a negative result).									
Low roost suitability	Moderate roost suitability	High roost suitability							
One survey visit. One dusk emergence or dawn re-entry survey ^o (structures).	Two separate survey visits. One dusk emergence and a separate dawn re-entry survey. ⁸	Three separate survey visits. At least one dusk emergence and a separate dawn re- entry survey. The third visit could be either							

* Structures that have been categorised as low potential can be problematic and the number of surveys required should be judged on a case-by-case basis (see Section 5.2.9). If there is a possibility that quiet calling, late-emerging species are present then a dawn survey may be more appropriate, providing weather conditions are suitable. In some cases, more than one survey may be needed, particularly where there are several buildings in this category.

^b Multiple survey visits should be spread out to sample as much of the recommended survey period (see Table 7.1) as possible; it is recommended that surveys are spaced at least two weeks apart, preferably more. A dawn survey immediately after a dusk one is considered only one visit.

Low roost suitability	Moderate roost suitability	High roost suitability		
May to August (structures)	May to September ^a with at least one of	May to September ^a with at least two of		
No further surveys required (trees)	surveys between May and August ^o	surveys between May and August ⁶		

Thus one night-time bat survey was undertaken of each building with suitability for roosting bats by two surveyors (S Stanley², A Penny³) using Echo Meter Touch 2 Pro and Batlogger M2 bat detectors⁴.

¹ Report by KB Ecology, dated 5th November 2022 / Ref No 2022/07/09

² 12 years' experience in bat surveys

³ first survey season

⁴ All surveyors were able to take recordings of bat species in either frequency division or full spectrum formats and were equipped with a bat detector that could produce audible bat calls during the survey. Also, at least one experienced surveyor was present on all of the surveys.

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No bats were seen emerging from or returning into any of the buildings during any of the surveys. Only a low number of common pipistrelle, soprano pipistrelle, noctule and *Myotis sp* bats were seen and heard commuting and foraging.

The buildings are thus not considered as being used as a bat roost and no mitigation or licence is expected to be needed prior to its demolition. <u>However, as the survey were carried out outside the recommended timing of May to August, updated surveys will be necessary to prove the absence of roosting bat⁵.</u>

Lighting can be detrimental to roosting, foraging and commuting bats⁶. Three of the four species detected, the common pipistrelle, soprano pipistrelle and noctule bats, are species which are not negatively impacted by street lights. But *Myotis sp* bats can be adversely affected by lighting (see below⁷).

Impact Behaviour	High	Medium	Low
Maternity roost	All species	•	-
Night roost	Rhinolophus hipposideros Rhinolophus ferrumequinum Myotis spp. Plecotus spp.	Pipistrellus spp. Nyctalus spp. Eptesicus serotinus Barbastella barbastellus	
Emergence	All species	-	-
Foraging	Rhinolophus hipposideros Rhinolophus ferrumequinum Myotis spp. Plecotus spp.		Pipistrellus spp. Nyctalus spp. Eptesicus serotinus Barbastella barbastellus
Commuting	Rhinolophus hipposideros Rhinolophus ferrumequinum Myotis spp. Plecotus spp.	•	Pipistrellus spp. Nyctalus spp. Eptesicus serotinus Barbastella barbastellus
Swarming	All species	-	-
Hibernation	All species	-	-

Thus, the recommendations from the Bat Conservation Trust, titled Bats and Lighting in the UK, should be considered, when designing any lighting scheme for the proposed development. See link for details <u>https://www.theilp.org.uk/documents/guidance-note-8-</u>

bats-and-artificial-lighting/

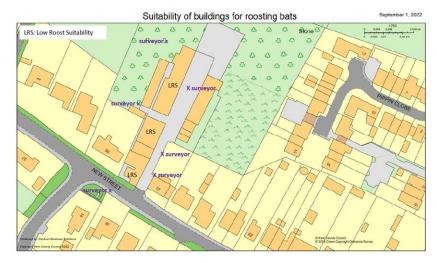
⁷ see Stone, E.L. (2013) Bats and lighting: Overview of current evidence and mitigation

⁵ Besides, updated surveys should be carried out every two years, to check that usage hasn't changed, prior to works taking place.

⁶ <u>http://www.bats.org.uk/pages/bats_and_lighting.html</u> and <u>http://www.batsandlighting.co.uk/index.html</u> for more information



Detailed Results:



Site Name and Building Numbe South Building, New Street, Ash					Surveyor Name	e / Equipment	Steve Stanley / Batlogger M2			
Weather Conditions Cloud: 50% Wind: 3 Rain: 2					Date		8th September 2022			
Start Time 19:10					Finish Time		20:55			
Air Temperatur of Survey	Air Temperature (°C) at Start of Survey				Air Temperature (°C) at End of Survey		16			
Sunset		19:25	Sunrise							
Position:	SW corner o	f southern bu	uilding	ilding						
Time	Species	Activity*				Comments				
19:47	Noctule	С	From south to	north, east sid	de of building.					
19:54	Pip 45	F	Brief F NW of	building, then	C west. Seen n	ot heard.				
20:18			Light rain beg	ins, lasting un	til survey end.					
20:27			Heavy rain foi	12 minutes, th	en becoming l	ight rain.				
Pip 45: commo	on pipistrelle /	Pip 55: sopran	o pipistrelle							
*Activity - 'E' =	'Activity - 'E' = emergence; 'R' = return; 'F' = foraging; 'C' = commuting *'S' = seen; 'NS' = not seen									

Site Name and	Site Name and Building Numbe South Building, New Street, Ash					/ Equipment	Alyx Penny / EM Touch 2 Pro		
Weather Conditions Cloud: 50% Wind: 3 Rain: 2					Date		8th September 2022		
Start Time							20:55		
Air Temperatur of Survey	erature (°C) at Start 17				Air Temperature (°C) at End of Survey		16		
Sunset		19:25			Sunrise				
Position:	NE corner of	southern bu	ilding						
Time	Species	Activity*		Comments					
19:47	Noctule	С	S - N						
19:54	Pip 45	С	E - W past N s	ide					



Site Name and Building Numbe North Building, New Street, Ash					Surveyor Name	/ Equipment	Steve Stanley / Batlogger M2		
Weather Conditions Cloud: 90% W			nd:1Rain:0		Date		16th September 2022		
Start Time 05:02					Finish Time		06:47		
Air Temperatur of Survey	perature (°C) at Start 11				Air Temperature (°C) at End of Survey		12		
Sunset	Sunset				Sunrise		06:32		
Position:	NW corner o	f north build	ling.						
Time	Species	Activity*				Comments			
05:24	Pip 55	F	F around NW	Faround NW end of building briefly, then C NE.					
05:32	Pip 55	С	Brief pass, no	Brief pass, not seen.					
05:45	Pip 55	С	Brief pass, no	tseen.					

Site Name and Building Numbe North Building, New Street, Ash					Surveyor Name	e / Equipment	Alyx Penny / EM Touch 2 Pro		
Weather Cond	itions	Cloud: 90% Wind: 1 Rain: 0			Date		16th September 2022		
Start Time							06:47		
Air Temperatu of Survey	re (°C) at Start	itart 11			Air Temperature (°C) at End of Survey		12		
Sunset					Sunrise		06:32		
Position:	East side of	north buildin	g.						
Time	Species	Activity*		Comments					
			No bats seen	or heard.					



Site Name and	Building Numbe	Central Buildi	ng, New Street	, Ash	Surveyor Name	e / Equipment	Equipment Alyx Penny / EM Touch 2 Pro		
Weather Condi	tions	Cloud: 10% Wi	nd: 1 Rain: 0		Date		29th September 2022		
Start Time		18:23			Finish Time		20:08		
Air Temperatur of Survey	e (°C) at Start	113			Air Temperatur Survey			12	
Sunset		18:38	Sunrise						
Position:	SE of buildin	g							
Time	Species	Activity*				Comments			
19:04	C.Pip	SNH	Seen clearly f	oraging from N	E to SW				
19:11	C.Pip	NS	Heard through	n app, not seer	ι.				
19:12	C.Pip	F	Travelling SW	to NE and bac	k in a circle.				
19:17	C.Pip	F	Foraging arou	nd treeline tra	velling betwee	en fence and b	uilding, travell	ling west down	the street.
19:21	C.Pip	NS	Heard clearly.						
19:28	Noc	NS	Not heard cle	arly. AutoID.					
19:28	C.Pip	F	Travelling nor	Travelling north/south along drive between buildings.					
20:02	Myotis	NS	Heard clearly.						

Site Name and	Building Numbe	Central Buildi	ng, New Street	, Ash	Surveyor Name	e / Equipment	Steve Stanley / Batlogger M2			
Weather Conditions Cloud: 10% Wi			nd: 1 Rain: O		Date		29th September 2022			
Start Time							20:08			
Air Temperatur of Survey	re (°C) at Start	13	Air Temperature (°C) at End of 12							
Sunset		18:38			Sunrise					
Position:	NW of centr	al building.								
Time	Species	Activity*		Comments						
19:27	Noctule	С	Distant pass,	not seen.						