

8<sup>th</sup> September 2022 Our reference: 2022/07/09

## 51-53 Sandwich Road, Ash CT3 2BH Kent

Following a 'Preliminary Ecological Appraisal' 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.

Table 7.3 Recommended minimum number of	survey visits for presen	ce/absence surveys to give confidence in a
negative result for structures (also recommend	led for trees but unlike	y 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 <sup>a</sup> (structures).	Two separate survey visits. One dusk emergence and a separate dawn re-entry survev. <sup>6</sup>	Three separate survey visits. At least one dusk emergence and a separate dawn re- entry survey. The third visit could be either		
No further surveys required (trees).		dusk or dawn.b		

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.

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)  No further surveys required (trees)	May to September <sup>a</sup> with at least one of surveys between May and August <sup>a</sup>	May to September <sup>a</sup> with at least two of surveys between May and August <sup>b</sup>

Thus one night-time bat survey in September 2022 was undertaken of each building with suitability for roosting bats by two surveyors (S Stanley<sup>2</sup>, A Penny<sup>3</sup>) using Echo Meter Touch 2 Pro and Batlogger M2 bat detectors<sup>4</sup>. This was repeated in August 2023.

<sup>&</sup>lt;sup>1</sup> Report by KB Ecology, dated 5th November 2022 / Ref No 2022/07/09

<sup>&</sup>lt;sup>2</sup> 12 years' experience in bat surveys

<sup>&</sup>lt;sup>3</sup> first survey season

<sup>&</sup>lt;sup>4</sup> 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.



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<sup>5</sup>.

Lighting can be detrimental to roosting, foraging and commuting bats<sup>6</sup>. 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 below<sup>7</sup>).

**Table 5.2.** Summary of predicted impacts of lighting for each species/group according to bat behaviour. Further research is required to have high confidence in many of these predictions and therefore they should be used as guidance only.

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 <a href="https://www.theilp.org.uk/documents/guidance-note-8-bats-and-artificial-lighting/">https://www.theilp.org.uk/documents/guidance-note-8-bats-and-artificial-lighting/</a>

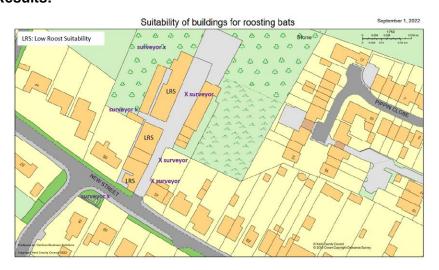
<sup>&</sup>lt;sup>5</sup> updated surveys should be carried out every two years, to check that usage hasn't changed, prior to works taking place.

<sup>6</sup> http://www.bats.org.uk/pages/bats\_and\_lighting.html and http://www.batsandlighting.co.uk/index.html for more information

<sup>7</sup> see Stone, E.L. (2013) Bats and lighting: Overview of current evidence and mitigation <a href="http://www.bats.org.uk/data/files/Bats">http://www.bats.org.uk/data/files/Bats</a> and Lighting - Overview of evidence and mitigation - 2014 UPDATE.pdf



## **Detailed Results:**



Site Name and	d Building Numbe	South Buildin	g, New Street, A	Ash	Surveyor Name	e / Equipment	Steve Stanley / Batlogger M2				
Weather Cond	litions	Cloud: 50% W	ind: 3 Rain: 2		Date		8th September 2022				
Start Time	Start Time 19:10				Finish Time		20:55				
Air Temperatu	ıre (°C) at Start	17			Air Temperatur Survey	e (°C) at End of	16				
Sunset	19:25 Sunrise										
Position:	SW corner o	f southern b	uilding								
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 I	building, then	C west. Seen n	ot heard.					
20:18			Light rain begi	ins, lasting un	til survey end.						
20:27			Heavy rain for	Heavy rain for 12 minutes, then becoming light rain.							
Pip 45: comm	on pipistrelle /	Pip 55: soprar	o pipistrelle								
*Activity - 'E'	'Activity - 'E' = emergence; 'R' = return; 'F' = foraging; 'C' = commuting					*'S' = seen; 'NS' = not seen					

Site Name and	Building Numbe	South Buildin	g, New Street,	As h	Surveyor Name	/ Equipment	Alyx Penny / EM Touch 2 Pro		
Weather Condi	Weather Conditions Cloud: 50% Wind: 3 Rain: 2				Date		8th September 2022		
Start Time		19:10			Finish Time 20:55				
Air Temperatur of Survey	re (°C) at Start	at Start 17			Air Temperatur Survey	e (°C) at End of	16		
Sunset		19:25			Sunrise				
Position:	NE corner of	southern bu	ilding						
Time	Species	Activity*				Comments			
19:47	Noctule	С	S - N	- N					
19:54	Pip 45	С	E - W past N s	W past N side					



Site Name and	d Building Numbe	North Buildin	g, New Street,	Ash	Surveyor Name	e / Equipment	Steve Stanley / Batlogger M2		!		
Weather Cond	itions	Cloud: 90% W	ind: 1 Rain: 0		Date		16th September 2022				
Start Time		05:02	F			Finish Time					
Air Temperatu	ire (°C) at Start	11		Air Temperature (°C) at End of Survey							
Sunset			Sunrise 06:32								
Position:	NW corner o	f north build	ling.								
Time	Species	Activity*				Comments					
05:24	Pip 55	F	F around NW	end of buildin	g briefly, then (	C NE.					
05:32	Pip 55	С	Brief pass, no	Brief pass, not seen.							
05:45	Pip 55	С	Brief pass, no	t seen.							

Site Name an	d Building Numbe	North Buildin	g, New Street,	Ash	Surveyor Name	/ Equipment	Alyx Penny / E	M Touch 2 Pro		
Weather Con	Weather Conditions		nd: 1 Rain: 0		Date		16th Septemb	er 2022		
Start Time		05:02 Finish Time 06:47								
Air Temperat of Survey	ure (°C) at Start	11			Air Temperatur Survey	e (°C) at End of	12	12		
Sunset					Sunrise		06:32			
Position:	East side of	north buildin	g.							
Time	Species	Activity*		Comments						
			No bats seen	b bats seen or heard.						



		1								
Site Name an	d Building Numbe	Central Build	ing, New Street	t, Ash	Surveyor Name	/ Equipment	Alyx Penny / El	M Touch 2 Pro		
Weather Cond	litions	Cloud: 10% W	ind: 1 Rain: 0		Date		29th Septemb	er 2022		
Start Time		18:23			Finish Time		20:08			
Air Temperatu	hir Temperature (°C) at Start 13				Air Temperatur Survey	e (°C) at End of	12			
Sunset 18:38 Sunrise										
Position:	SE of buildir	ng								
Time	Species	Activity*		Comments						
19:04	C.Pip	SNH	Seen clearly foraging from NE to SW							
19:11	C.Pip	NS	Heard through app, not seen.							
19:12	C.Pip	F	Travelling SW	to NE and bac	k in a circle.					
19:17	C.Pip	F	Foraging arou	ınd treeline tra	velling betwee	n fence and b	uilding, travell	ing 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	rth/south along	g drive betweer	n buildings.				
20:02	Myotis	NS	Heard clearly.							
Site Name an	Site Name and Building Numbe Central Building, New Street, Ash				Surveyor Name	/ Equipment	Steve Stanley / Batlogger M2			
Weather Cond	litions	Cloud: 10% W	ind: 1 Rain: 0		Date		29th Septemb	er 2022		
Start Time	Start Time 18:23				Finish Time		20:08			

Site Name and	Building Numbe	Central Buildi	ng, New Street	, Ash	Surveyor Name	/ Equipment	Steve Stanley / Batlogger M2			
Weather Conditions Cloud: 10% Wind: 1 Rain: 0				Date		29th September 2022				
Start Time		18:23					20:08			
Air Temperatur of Survey	ature (°C) at Start 13				Air Temperature (°C) at End of Survey		12			
Sunset	Sunset 18		18:38			Sunrise				
Position:	NW of centr	al building.								
Time	Species	Activity*		Comments						

Time	Species	Activity*	Comments	
19:27	Noctule	С	Distant pass, not seen.	



Site Name and	Building Numbe	Middle Buildi	ng at New Stre	et, Ash	Surveyor Name	e / Equipment	Steve Stanley / Batlogger M2, Canon XA11				
Weather Condi	tions	70% Cloud, Wi	nd 1, Rain 0		Date		29th August 2023				
Start Time		19:33			Finish Time		21:18				
Air Temperatur	e (°C) at Start	18	Air Temperature (°C) at End of Survey			16					
Sunset		19:48	Sunrise								
Position:	NE corner										
Time	Species	Activity*				Comments					
20:15	Pip 55	С	From west, Cr	orth past nort	h end of buildi	ng.					
20:38	Myotis	F	Brief F east of	building, ther	n C north.						
20:41	Pip 45	С	From south to	north along ea	ast side of bui	lding.					
20:45	Pip 55	С	Brief pass, no	t seen.							
20:50	Pip 45	F	Brief and dist	ant F, not seer	١.						
20:54	Pip 45	С	From south to	north along e	ast side of bui	lding.					

Site Name and Building Number		Middle Building at New Street, Ash			Surveyor Name / Equipment		Alyx Penny / Echo Meter Touch 2 Pro				
Weather Cond	Weather Conditions 70% Cloud, V					Date		29/8/23			
Start Time	rt Time 19:33							21:18			
Air Temperati	Air Temperature (°C) at Start of Survey		18				Air Temperature (°C) at End of Survey		16		
Sunset	Sunset					Sunrise					
Position:	South Corne	(w3w men	swear.dabbled.tests)								
Time	Species	Activity*				Comments					
20:05	45 pip	F	in garden to	the SE							
20:15	45 pip	С	SE to NW								
20:39	Myotis	F	From Road SW to NE, then back 3 times								
20:40	45 pip	C from road SW to NE									
20:50	45 pip	NS	close, brief	pass							
20:54	45 pip	С	from road S	W to NE							
20:56	45 pip	NS	nearby, brie	ef pass							



Site Name and Building Number	South Building at New Street, Ash	Surveyor Name / Equipment	Alyx Penny / Echo Meter Touch 2 Pro
Weather Conditions	100% Cloud, Wind 1, Scattered light showers	Date	31.08.23
Start Time		Finish Time	21:13
Air Temperature (°C) at Start of Survey	16	Air Temperature (°C) at End of Survey	16
Sunset	19:43	Sunrise	

Position:	SW corner										
Time	Species	Activity*	Comments								
			Light rain fron	n survey start u	ıntil 19:55						
20:14	55 Pip	F	N to S and bad	to S and back along E of building							
			Light rain fron	ight rain from 20:19 to 20:25							
20:27	45 Pip	F	N to S, E of bu	I to S, E of building							
20:33	55 Pip	F	E of building	of building							
20:42	45 Pip	F	E of building (	of building until 20:45							
20.54	55 Pin	NS									

Site Name and Building Number	South Building	g at New Stree	t, Ash	Surveyor Name	/ Equipment	Steve Stanley	/ Batlogger M2	
Weather Conditions	100% Cloud, W showers	ind 1, Scattere	ed light	Date		31st August 2023		
Start Time			Finish Time		21:13			
Air Temperature (°C) at Start of Survey	16			Air Temperature (°C) at End of Survey		16		
Sunset	19:43			Sunrise				

Position: SW corner Time Species Activity\* Comments Light rain from survey start until 19:55 20:14 Pip 55 F From north, brief F south of building, then back north. Light rain from 20:19 to 20:25 20:27 Pip 45 С Distant pass, not seen. 20:44 Pip 55 С Distant pass, not seen. 20:55 Pip 45 Brief F nearby, not seen.



Site Name and Building Numbe		Middle Buildi	ng at New Stre	et, Ash	Surveyor Name	e / Equipment Steve Stanley / Batlogger M2, Canon X			2, Canon XA11	
Weather Condi	itions	70% Cloud, Wind 1, Rain 0			Date	Date 2		29th August 2023		
Start Time		19:33			Finish Time		21:18			
Air Temperatu of Survey	re (°C) at Start	118			Air Temperature (°C) at End of Survey		16			
Sunset		19:48		Sunrise						
Position:	NE corner									
Time	Species	Activity*	Comments							
20:15	Pip 55	С	From west, C north past north end of building.							
20:38	Myotis	F	Brief F east of building, then C north.							
20:41	Pip 45	С	From south to north along east side of building.							
20:45	Pip 55	С	Brief pass, not seen.							
20:50	Pip 45	F	Brief and dist	ant F, not seer	١.					
20:54 Pip 45		С	From south to north along east side of building.							
Site Name and Bu	ilding Numbe Middle	e Building at New			Surveyor Name / Ed	quipment	Alyx Pen	nny / Echo Meter	Touch 2 Pro	
Weather Condition	70% CI	oud, Wind 1, Rain	0			Date		29/8/23		

Site Name and Building Number		Middle Build	ing at New Street, Ash	Surveyor Name / Equipment	Alyx Penny / Echo Meter Touch 2 Pro				
Weather Cond	itions	70% Cloud, W	ind 1, Rain 0	Date	29/8/23				
Start Time		19:33		Finish Time	21:18				
Air Temperatu of Survey	Air Temperature (°C) at Start			Air Temperature (°C) at End	16				
Sunset		19:48		Sunrise					
Position:	South Corne	(w3w mens	wear.dabbled.tests)						
Time	Species	Activity*		Comments					
20:05	45 pip	F	in garden to the SE						
20:15	45 pip	С	SE to NW						
20:39	Myotis	F	From Road SW to NE, then back 3 times						
20:40	45 pip	С	from road SW to NE						
20:50	45 pip	NS	close, brief pass						
20:54	45 pip	С	from road SW to NE		·				
20:56	45 pip	NS	nearby, brief pass						