## Chiropteran report Land to the east of Ugley Village Hall 2023 – 2024

The published guidance for this report changed in September 2023 from Collins 3<sup>rd</sup> Edition 2016 to Collins 4<sup>th</sup> Edition.



## Daytime Bat Walkovers

Firstly, there are so many trees around the perimeter of this application site it is difficult to study each tree in depth in one visit. The second visit was made prior to any equinoxial storms. January 2024 saw two systems capable of serious physical damage to the trees within the red applocation line. Storm Isha and Storm Jocelyn passed through the site leaving little significant damage. However, a further Daytime Bat Walkover was undertaken on March 13th 2024. This latter date was also the date of the GLTA survey.

August 4th, September 19th 2023 and March 13th 2024





The daytime bat walkovers presented lines of mature and semi-mature decidous trees around the perimter. It is axiomatic that these trees provide a good opportunity for nolant season foraging for many species, particularly as Linnet's Wood is immediately adjacent to the east. The open neutral grassland that occupies the vast majority of the application area would provide further foraging habitat were it not regularly cut.

The key conclusion from the Daytime Bat Walkover is that none of the perimeter trees are scheduled for removal. Only those individual trees in the northeast quarter are listed for removal. These were subject to a Ground Level Tree Assessment to establish if there are any PRFs present.

## Ground level Bat Activity Survey.



Images  $4^{\text{th}}$  August 2023; equipment was Pettersson D240x Ultrasound Detector.

Date	Sunday 04 08 2023
Start time	19.50 hrs
End time	22.30 hrs
Temperature start	14 Degrees C

Temperature end	11 Degrees C
Wind speed start	2 mph
Wind speed end	3 mph
Wind direction start	W
Wind direction end	WNW
Preciptation	Zero rained at 12.00 hrs and 14.00 hrs.

All the perimeter trees are suitable for navigation and foraging. All these trees and the lone Acer pseudoplatanus are to be retained. The foraging patterns briefly recorded on the evening of the 4<sup>th</sup> August 2023 were 1 x Pipistrellus pygmaeus 55 kHz flying due west along the southern boundary and a Pipistrellus pipistrellus 44 kHz with a regular return of 3 minutes passed 6 times around the northeast corner. One would suggest that all perimeter trees should be considered as potential suitability: moderate. There are no established roost sites at present. One can assume that the woodland to the east, Linnet's Wood , is capable of supporting numerous species even though a good deal of that area is planted relatively recently.



Likely foraging patten Would recommend a further survey to Collins 4<sup>th</sup> Edition methodology showing more detailed foraging pattens, including thermal imaging, in May 2024. This was not available until mid-September 2023 very close to the end of the recognized volant season. This can then accurately inform all external lighting design.

Ground Level Tree Assessment

## The trees along the southern boundary from east to west.







There are numerous trees along this boundary that have a confluent growth of Hedera helix; binocular searches are not sufficient.. These trees need a further investigation during the volant season, May 2024 onwards, with night time observations and thermal imagery. Although none of these trees are scheduled for removal, the external lighting design to the rear of the affordable house could be informed by an additional search.



The trees along the western boundary from south to north, below.



The large Fraxinus excelsior, the northernmost tree of those directly behind the Village Hall, has a Potential Roost Feature on the northern part of the southernmost of the three stems.



See image above. Binoculars show this to be a small hollow perhaps not deep enough.



Above, trees along the western boundary.



Above trees along the northern boundary

Below, the trees scheduled for removal.





The three trees in the extreme northeast corner do have a limited amount of crevices that could provide an opportunity Potential Roost Site, if not in 2024 then within two years if rot progresses further.

Below the eastern boundary trees.







The veteran Quercus robur along the eastern boundary are in good condition. Although a prime site for numerous species to roost, there was no obvious hollows or crevices. The walkway in Linnet's Wood allowed binocular observations on all sides. See below.



The lone Acer pseudoplatanus in southeast quarter





Overall the vast majority of the perimeter trees are in good order. Potential Roost Features are present but rare. Clearly the trees with a confluent growth of Hedera helix should be categorised as Potential Suitability : Moderate.

There are no Potential Roost Features on any of the trees scheduled for removal. Potential Suitability Negligible to Nil

A further survey during the volant season 2024 to inform on the external lighting design and locations.

A. R. Arbon MBE,

Consultant Ecologist,

 $29^{\text{th}}$  March 2024