4991.3 rev B Scotland Lodge Biodiversity Plan 12/01/2024

Introduction

As part of the A303 widening scheme a series of bat montioring surveys have taken place during 2017 and 2023. These have been located at points along the proposed route of the A303 scheme. One of these locations, CP8, was located at Scotland Lodge, to the west of Winterbourne Stoke.

Results

The results of the two published surveys at CP8 – Scotland Lodge are set out in Table 1, below.

Table 1 – CP8 – Scotland Lodge bat monitoring results.

Species	**Number recorded**	**Year recorded**
Soprano Pipistrelle	1	2017
Common Pipistrelle	16	2017
Serotine	10	2017
Mytotis sp	7	2017
Brown long-eared	1	2017
Unknown sp	4	2017
Total	**39**	
Common Pipistrelle	72	2023
Soprano Pipistrelle	3	2023
Brown long-eared	1	2023
Noctule	27	2023
Serotine	23	2023
Eptesicus/ Nyctalus	1	2023
Mytotis sp	2	2023
Total	**129**	

Discussion

The majority of the 168 bats recorded across the two survey years come from common species and are recorded in low numbers. The exception to this is the 72 common pipistrelle recorded in 2023.

No Annex II species were clearly recorded. It is possible that bechstein bats were recorded within the 9 Myotis species across the two years.

A glamping development has been operating in the woodland belt at the north of Scotland Lodge Farm, with low levels of external lighting, since 2020. Three times as many bats were recorded at the site in 2023 than were recorded in 2017.

The operation of the glamping facility does not appear to have had a significant negative impact to the functionality of the woodland belt for the local bat population.

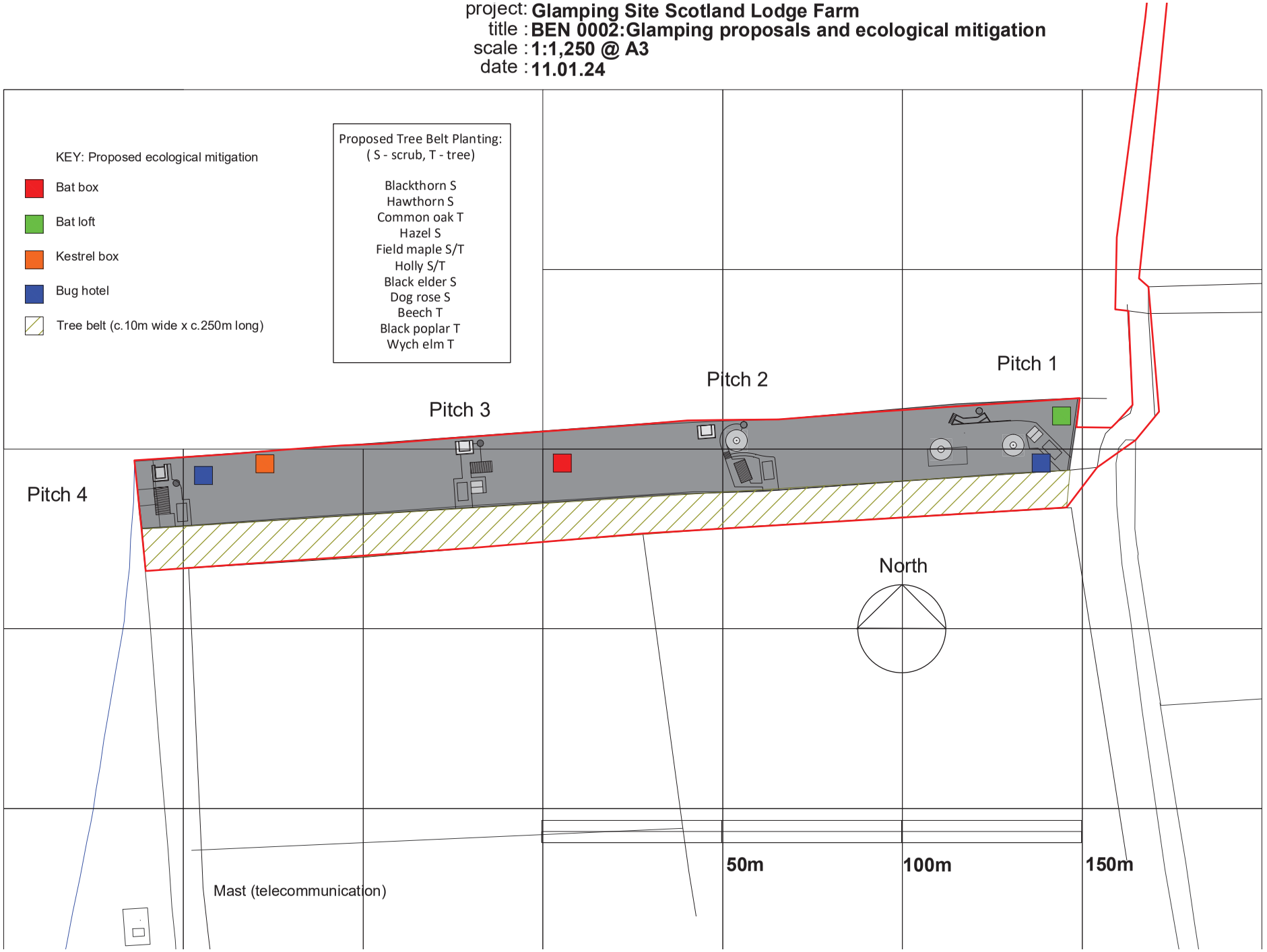
Figure 1 - 4991.1 Scotland Lodge Biodiversity Plan

Plan and Aerial photograph (taken 14/12/23) of 4 Pitches at Scotland Lodge

(not to precise scale)



project: **Glamping Site Scotland Lodge Farm**
title : **BEN 0002:Glamping proposals and ecological mitigation**
scale : **1:1,250 @ A3**
date : **11.01.24**



4991.1 Scotland Lodge Biodiversity Plan

Habitat enhancement:

As part of the development the following features of ecological value will be incorporated into the project design, see Figure 1 above:

1. Bat box – a large, multi-chamber woodstone bat box installed on a northern elevation of an established tree at a height above 3m, see Figure 1 for location. https://www.arkwildlife.co.uk/product/large-multi-chamber-woodstone-bat-box/?gclid=EAIaIQobChMIgdvw8pTNgAMVh9XtCh07_gPlEAAYASAAEgIst_D_BwE

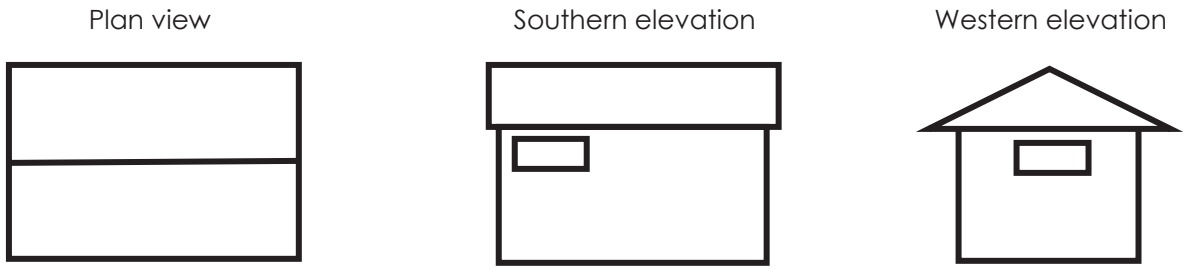
2. Bat loft – a bespoke bat loft will be built, located immediately to the west of the development Site. See Figure 2 for details, see Figure 1 for location. The structure will be 3m tall at the ridge, 2.2m tall at the eaves. The walls will be clad with timber weatherboard. There will be two entrances, each measuring 1m long by 0.3m high. The structure will measure 4.5m long by 2m wide.

3. Bird box – a kestrel box will be installed on a northern of an established tree at a height of at least 5m above the ground, see Figure 1 for location. https://www.birdfood.co.uk/kestrel-nest-box?utm_source=Tradetracker&utm_medium=affiliate&utm_campaign=Siboom%20UK&utm_content=feed

4. "Bug" hotel – two insect hotel Capri installed on a free standing posts at a height of 1.5m above the ground. https://www.birdfood.co.uk/insect-hotel-capri?gclid=EAIaIQobChMIgoXo8pXNgAMVBPntCh3N9Q17EAQYBSABEgIgR_D_BwE, see Figure 1 for location.

5. General planting should be composed of fruit and nectar bearing species, see Appendix 1. As part of the proposed planting a strip measuring 10m x 250m of native, species rich woodland will be planted. This will be composed of hawthorn, blackthorn, elder, field maple, oak, dog rose, holly and crab apple. The location of hedgerow planting is set out in Figure 1.

Figure 2 - 4991.1 Scotland Lodge Bat House Design



6. There will be no artificial lighting operating within the entire glamping development. The existing artificial lighting has been uninstalled in September 2023.

Appendix 1

Species	P	B	A	Ar	H	Su/Sh	Moisture	Be	Bu	Mo	Ho
Angelica*	Y					Su	D				Y
Comfrey*	Y					Su	D	Y		Y	
Common poppy*			Y	Y		Su	D	Y	Y		
Corn chamomile*			Y	Y		Su	D	Y			Y
Corn marigold*			Y	Y		Su/Sh	D	Y			Y
Corn spurrey*			Y	Y		Su/Sh	D				
Corncockle*			Y	Y		Su	D	Y			
Cornflower*	Y	Y	Y	Y		Su	D	Y	Y	Y	Y
Deadnettle*	Y			Y		Su/Sh	D	Y			
Devil's bit scabious*	Y					Su/Sh	M	Y	Y		Y
Fennel*	Y				Y	Su	D				Y
Field scabious*	Y					Su	D		Y	Y	Y
Field Woundwort*	Y			Y		Su	D	Y		Y	
Foxglove*		Y				Su	D	Y		Y	
Goldenrod*	Y					Su	D	Y		Y	Y
Greater knapweed*	Y					Su/Sh	D	Y	Y	Y	Y
Hemp agrimony*	Y					Su/Sh	D		Y	Y	Y
Lesser snapdragon*			Y	Y		Su	D	Y			
Lungwort*	Y					Su	D	Y			
Meadow clary*	Y					Su	D	Y		Y	
Round-leaved fluellin*			Y	Y		Su	D	Y			
Small scabious*	Y					Su	D		Y	Y	Y
Spiked speedwell*	Y					Su	D	Y		Y	
Teasel*		Y				Su	D	Y	Y	Y	
Thistle*		Y				Su	D	Y		Y	Y
Viper's bugloss*		Y		Y		Su	D	Y			
Whorled clary*	Y					Su	D	Y		Y	

Wild carrot*		Y				Su	D			Y	Y
Wild clary*	Y					Su	D	Y		Y	
Wild marjoram*	Y				Y	Su	D		Y	Y	Y

Key			Sh = Shade tolerant
*	Native	**Soil Moisture**	D = Dry soil
Plant type	P = Herbaceous perennial		M = Moist soil
	B = Biennial		W = Wet soil
	A = Annual	**Attractive to**	Be = Bees
	Ar = Arable flower		Bu = Butterflies
	H = Herb		Mo = Moths
Location	Su = Sunny borders		Ho = Hoverflies