Bat Survey - Preliminary Roost Assessment

32 Dilworth Lane, Longridge, Preston PR3 3ST Michael Dewhurst

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Executive summary

and suitability of the structures for roosting bats. Arbtech Consulting Ltd. undertook a Preliminary Roost Assessment at 32 Dilworth Lane, Longridge, Preston PR3 3ST on 15th March 2017. The aim of the assessment was to consider the value

The development proposals are for a two storey extension on the western elevation of the existing dwelling and a single storey extension to the rear.

Recommendations - This is work you will need to commission (if any) to obtain planning permission or comply with legislation for other consent.

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					81	Survey feature
benefit to the second present a present and the second present a second pr	If bat roosts are confirmed an additional survey will be required to inform a European Protected Species Missiantics Licenses	Two surveyors are required to provide full coverage of the suitable roosting features noted on the building.	One of these surveys should be a dawn re-entry survey.	the building. These surveys should be completed during the optimal survey period mid-May to Application Surveys should be completed during the optimal survey period mid-May to Application Surveys as a second parts roosting in	Two bat emergence/re-entry surveys are required during the active bat season (May – September) to confirm the presence/likely absonce of the confirmation of the confi	Recommendations

For full justification of these recommendations, please go straight to section 4.0 Conclusions, Impacts and Recommendations. Otherwise, the full report starts below.

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1.0 Introduction and Context

1.1 Background

publication Bat Surveys for Professional Ecologists – Good Practice Guidelines (Collins, J. (Ed) 2016). Arbtech were commissioned by Michael Dewhurst to undertake a Preliminary Roost Assessment (PRA) at 32 Dilworth Lane. The assessment is informed by the Bat Conservation Trust

No previous reports have been produced for this site by Arbtech Consulting Ltd

surveyed as this will be effected by the proposed development. The site is located at National Grid Reference SD 60988 37310, and comprises an area of approximately 285sqm (0.0ha). There is one building within the site boundaries. One building was

1.3 Scope of the report

summarises the requirements for any further surveys, to inform subsequent mitigation proposals, achieve planning or other statutory consent, and to comply with wildlife legislation. evidence collected or recorded during the site survey that establishes the presence of roosting bats. It provides information on constraints to the proposals as a result of roosting bats, and This report provides a description of all features suitable for roosting bats, and evaluates those features in the context of the site and wider environment. It further documents any physical

this, the following steps have been taken: The aim of the assessment was to determine the presence or evaluate the likelihood of the presence of roosting bats, and to gain an understanding of how they could use the site. To achieve

- A desk study has been carried out, including a request for bat records from the Lancashire Environmental Records Network (LERN).
- A field survey has been undertaken, including an external survey and internal inspection where possible.
- An outline of likely impacts on any known roosts has been provided, based on current development proposals

Recommendations for further survey and assessment have been made, along with advice on European Protected Species Mitigation Licensing if appropriate

A survey plan is presented in Appendix 1, the proposed Project Plan is included in Appendix 2 (where available), desk study results are provided in the Appendix 3 and a summary of relevant legislation can be found in Appendix 4

1.4 Project Description

second storey will be added and connected to the existing main roof. The proposed site plan is included in Appendix 2 (where available). extension on the western elevation of the existing dwelling and a single storey extension to the rear. The roof structure of the existing single storey extension will be removed and the additional This report is prepared in support of a planning application that is being prepared for submission to Ribble Valley Borough Council. The proposed development is described as: a two storey

2.0 Methodology

2.1 Desk Study methodology

Existing bat records relating to the site and a surrounding 2km radius (the study area) are required to conform to national guidelines and these have been obtained from Merseyside BioBank.

The data search is confidential information that is not suitable for public release.

A review of the following information sources has also been undertaken to inform the assessment:

- Landscape structure using aerial images from Google Earth and OS maps
- Designated sites, habitat and granted EPSL records held on Magic.gov.uk.

2.2 Site Survey methodology

The survey was undertaken by Jo Gregory (Natural England Bat Licence Number: 2015-11994 CLS-CLS) on 15th March 2017.

All features that will be impacted by the project proposals were assessed for their bat roosting and/or commuting habitat. The surveyor systematically surveyed all features suitable for-bats

For any surveyed buildings

and signs of bat activity.

A non-intrusive visual appraisal from the ground using binoculars, inspecting the external features of the building(s) for potential access/egress points, and for signs of bat use. An internal inspection of the building was also made, including the living areas of derelict or abandoned buildings and the accessible roof spaces of all buildings, using an endoscope, torch and ladders. The surveyor paid particular attention to the floor and flat surfaces, window shutters and frames, lintels above doors and windows, and carried out a detailed search of numerous features

For any surveyed trees

within the roof space.

A visual inspection from ground level using binoculars and where accessible an internal inspection of suitable roosting features using an endoscope, torch and ladders.

2.3 Breeding birds and other incidental observations

The surveyor also made note of any other ecological constraints observed during the survey, notably the likelihood of presence or signs of breeding birds, and the suitability of the site for

barn owls Tyto alba

likelihood of roosting bats are summarised in Tables 1 and 2 below. Roost suitability is classified as high, moderate, low and negligible and dictates any further surveys required before works All affected survey features on site were categorised according to the likelihood of bats being present, in line with best practice guidelines (Collins, J. (Ed) 2016). The features that dictate the

Table 1: Features of a building that are correlated with use by bats

Likelihood of bat	Likelihood of bats Feature of building and its context
being present	
Higher	Buildings/structures with features of particular significance for roosting bats e.g. mines, caves, tunnels, icehouses and collars
	Habitat on site and surrounding landscape of high quality for foraging bats e.g. broadleaved woodland, tree-lined watercourses and grazed parkland
	Site is connected with the wider landscape by strong linear features that would be used by commuting bats e.g. river and or stream valleys and hadrons are the strong linear features.
	Site is proximate to known or likely roosts (based on historical data).
Lower	A small number of possible roost sites/features, used sporadically by more widespread species.
	Habitat suitable for foraging in close proximity, but isolated in the landscape. Or an isolated site not connected by prominent linear features
	Few features suitable for roosting, minor foraging or commuting.

Table 2: Features of a tree that are correlated with use by bats

		-			_
	Lower		Higher	being present	tikelillood of bats
potential.	A tree of sufficient size and age to contain potential roosting features but with none seen from the ground or features seen with only very limited roosting	periods of time due to their size, shelter, protection, conditions and surrounding habitat.	A tree with one or more potential roost sites that are obviously suitable for use by larger numbers of bats on a more regular basis and potentially for longer		Likelinood of bats Feature of tree and its context

2.5 Limitations — evaluation of the methodology

of bats as currently understood, and the known distribution of bats as recovered during the desk study. of the site. This survey provides a preliminary view of the likelihood of bats being present. This is based on suitability of the habitats on the site and in the local area, the ecology and biology It should be noted that whilst every effort has been made to describe the features on site in the context of their suitability for roosting bats, this does not provide a complete characterisation

survey was carried out to its fullest extent, and the conclusions based on the maximum range of evidence. There were no specific limitations to the survey regarding internal access, exterior visibility, safety from biotic (e.g. wasps) or abiotic (e.g. asbestos) sources or adverse weather. Therefore, the

3.0 Results and Evaluation

3.1 Desk Study Results

A summary of desk study results are provided below; full details are included in Appendix 3.

3.2 Designated sites

There are no statutory designated sites and one non-statutory sites within the study area. Their location and extent are illustrated in Appendix 3. Table 3 provides details of the designated

Table 3: Designated sites within 2km radius of the site

sites including their reasons for notification.

I able 3. Designated sites		
Designated site name	Distance from site (approximately)	Reasons for notification and integral value
Statutory designated sites		
Site of Special Scientific Interest (SSSI)	0m the site is located within the SSSI Impact	Om the site is located within the SSSI Impact SSSI Impact Risk Zone due to Red Scar and Brook Tun SSSI located approx. 2/90m to the
Impact Risk Zone	Risk Zone	southwest
Non-statutory designated sites		
Forest of Rowland Area of Outstanding	0m site located within the AONB boundary	AONBs are designated areas where protection is afforded to protect and manage the areas
Natural Beauty		for visitors and local residents.

3.3 Landscape

pastureland to the north and east. Several reservoirs are located within the wider landscape including Spade Mill reservoir to the east, Alston reservoirs to the south and Dilworth Upper A review of the designated sites, aerial photographs (Figure 1), the Magic database and OS maps has been undertaken. Collated together, the site's local bat habitat is described below: reservoir to the north. Residential gardens and tree lined field boundaries provide connectivity from the site to these reservoirs and several scattered woodlands which will be key foraging The site is situated in Longridge on the outskirts of Preston in Lancashire. The landscape immediately adjacent to the site is dominated by residential areas to the south and west with areas for bats

Priority habitats within 2km of the site are listed in Table 4 below.

Preliminary Roost Assessment

Table 4: Priority Habitat Inventory within 2km (Magic.gov.uk):

Habitat	Closest distance from site
Good quality semi-improved grassland	~850m south
lows	~1235m south
Lowland Fens	~1780m south
Ancient Woodland	~665m southeast
Deciduous Woodland	~665m southeast
Traditional Orchards	~40m northwest
National Forest Inventory	Broadleaved woodland ~150m east

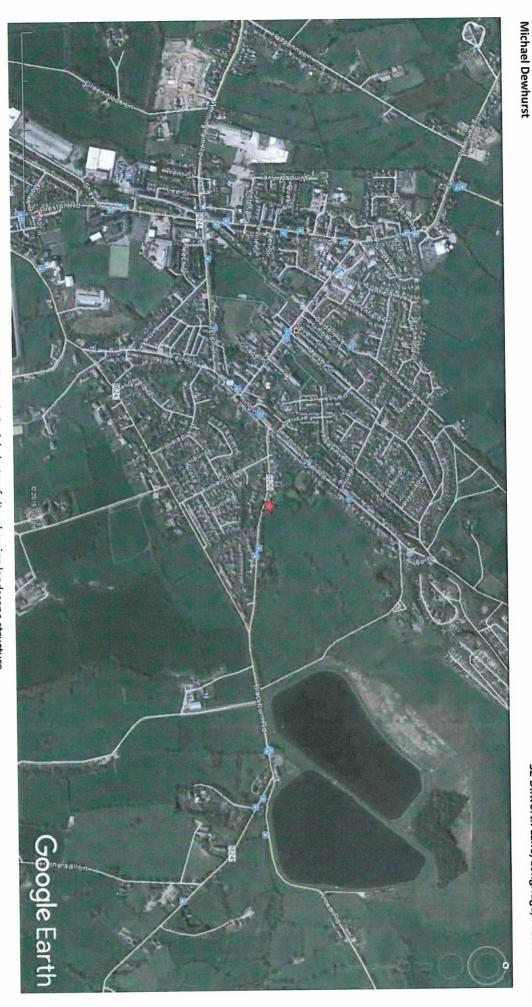


Figure 1: Aerial photo of site, showing landscape structure

3.4 Historical records

and summarised in Table 5 below upon receipt. Lancashire Environmental Records Network (LERN) have been commissioned to provide bat records for within 5km of the site. The full data can be provided on request and will be analysed

Table 5: Historical records of bats within 5km of the site

•					
Common name	Scientific binomial	Number of records	Number of roost records	Maternity roost records	Closest record to site
Unidentified Bat	Myotis	1	1	0	4375
Daubenton's Bat	Myotis daubentonii	2	0	0	3201
Noctule Bat	Nivetaline seetile	2			3231
INDCLUIE DAL	Nyctalus noctula	12	0	0	3733
Pipistrelle Bat	Bat Pipistrellus	1	0	0	4727
species				(12/4
Common Pipistrelle	Pipistrellus pipistrellus 36	36	×		262
- 1					263
sopiallo ripistrelle	Pipistrellus pygmaeus	G	0	0	4727
Brown Iong-pared	Placatic auritus	2			
Bat Fiecotus duillus	riecotus dufitus	ů.	2	0	2505
Dar					

approx. 2465m to the east (EPSM2011-3791, C-PIP; BLE, Destruction of a resting place). A search of the magic database for granted European Protected Species Mitigation Licences (EPSMLs) for bats within a 2km radius found no licenced site with the nearest licenced site located

Table 6: Granted EPSMLs (bats) within 2km of the site

None within search radius	Case reference of granted application Approx. distance from site Bat Species Effected Licence Start Date:
	Approx. distance from site
	Bat Species Effected
	Licence Start Date:
	Licence End Date:
	Impacts allowed by licence

3.5 Field Survey Results

in Table 7. There is one survey buildings on the site. This building is designated as B1 and is illustrated in the map in Appendix 1. The environmental variables recorded at the time of the survey are shown

Table 7: Environmental variables during the survey

2000	
	30.55
0.7011/3	
0.40m/c	Wind
TO/0	מוסמת כסיינו
10%	Cloud Cover
3070	- I GITTIGICY
360/	Himidity
22.0	ומוווטמומנעומ
7300	Tomporation
	Date: 15/03/201/
	70+0.17/00/0017

3.6 Site Feature descriptions and photos

Building B1 Description

and doors are UPVC and tight fitting with large stone lintels and sills to the windows. The hipped roof of the main two storey section is constructed of slate tiles with clay ridge tiles along the B1 is a two storey detached dwelling with a single storey section on the western elevation. The dwelling is brick built with a pebbledash render on the walls of the second storey. Windows eastern side of the front (south) elevation. This is wood framed with a slate roof and clay ridge tiles. Wooden soffit boxes are present on all elevations and these are tight fitting. main ridge and hips. A bay window is present on the western side of the front (south) elevation with a half hipped slate roof. A small porch is present above the front door located on the



Photo 1: South elevation of B1.



Photo 2: Single storey section on western side of B1.



Photo 5: East elevation of B1.



Photo 3: Bay window with half hipped slate roof.



Photo 6: South elevation of B1.

Photo 4: Small porch above the front door

be utilised by crevice dwelling bat species to roost between the slates and within the small voids behind the ridge tiles and hipped tiles. (north elevation) gaps and dislodged ridge tiles are visible along the central ridge of the main roof. Gaps in the roof slates are also present on the northern elevation roof. All of these gaps can visible on the southern elevation. A ridge tile has slipped on the western elevation where the central ridge tiles meet the hipped tiles. When viewing the main roof structure from the rear visible in the end hipped tiles on the southwest and southeast corners of the main roof structure. Two areas of missing mortar are also present in the ridge tiles of the single storey section, There is missing mortar in the ridge tiles and hipped tiles of the main roof, particularly in the central ridge tile and in the eastern hipped tiles on the south elevation. Further missing mortar is

A chimney is located on the northern elevation with lead flashing around the base which is tight fitting providing no access points that could be used by bats

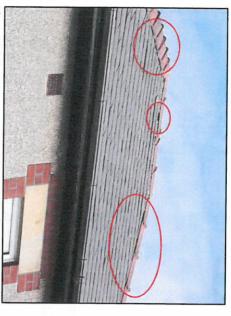


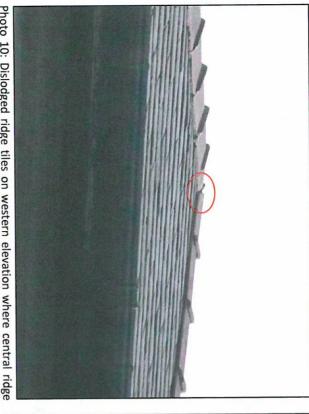
Photo 7: Missing mortar in ridge tiles on south elevation.



Photo 8: Example of missing mortar at end of hipped tiles.



Photo 9: Missing mortar in ridge tiles and gaps in slates.



meets hipped tiles. Photo 10: Dislodged ridge tiles on western elevation where central ridge



Photo 11: Missing mortar in hipped tiles on the western elevation of main roof.

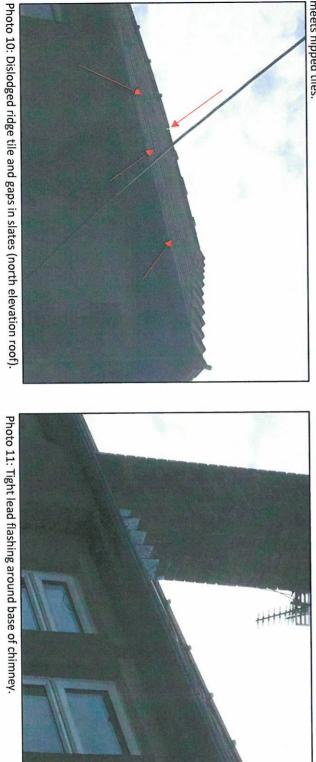


Photo 11: Tight lead flashing around base of chimney.

evidence of a bat roost i.e. bat droppings. However, the loft is infested with flies and the loft insulation was covered with dead flies and debris making locating any droppings very problematic. which correlated with the gaps in the slates noted on the northern elevation roof externally. Daylight is also visible in the centre of the roof structure where the missing mortar in the central ridge tile was noted externally. The floor of the loft space is partially boarded but the majority is covered in very old loft insulation. This would usually provide a good surface for identifying There is one loft space measuring approx. 2m in height to the ridge, 9m in length and 7m in width with a water tank in the centre. The roof is unlined and daylight is visible through the slates



Photo 13: Loft space showing unlined roof structure.



Photo 14: Example of condition of loft insulation.



Photo 15: Daylight visible through roof slates.





Photo 17: Debris and dead flies on loft insulation.



tank. Photo 18: Thick layer of dusk, debris and dead flies on water

No evidence of bats was located internally or externally during the survey. However, several suitable roosting features were noted in the main roof structure and the single storey roof structure

Breeding birds and other incidental observations

extensions.

which will be impacted by the proposed extensions.

No evidence of nesting birds was observed during the survey. There are hedges around the parking area on the northern side of the site but these will not be impacted by the proposed

4.0 Conclusions, Impacts and Recommendations

4.1 Informative guidelines

birds whilst they are breeding, and prohibits the killing, injuring or taking of any wild bird or their nests and eggs. Certain species of bird, including the barn owl, are subject to special provisions; Bats are protected under the Wildlife and Countryside Act and Conservation Regulations; see Appendix 3 for a summary of legislation protecting bats in the UK. Legislation protects all wild it is an offence to disturb any bird or their young during the breeding season.

There are three possible outcomes of this survey, each with specific recommendations. These are outlined below:

Confirmed bat roost

(May – September). At least two of the surveys should be completed during the optimal survey period mid-May to August, and at least on the surveys should be a dawn re-entry survey roost type and access points to inform a European Protected Species Mitigation Licence (EPSML) application with Natural England. Surveys must be completed during the active bat season Best practice survey guidelines (Collins, 2016) recommends additional surveys for confirmed roosts. Three further surveys are required to characterise the bat roost present including species,

Low, moderate or high likelihood of a bat roost present

a dawn re-entry survey (Collins, J. 2016). The survey effort recommended at this stage is iterative and if bats are recorded emerging from the buildings, a further survey will be required to provide sufficient information to inform an EPSML application to Natural England. September). If more than one survey is recommended, at least one of them should be completed during the optimal survey period mid-May to August, and at least one the surveys should be required to confirm presence/likely-absence of a bat roost, based on a low, medium or high roost likelihood evaluation. Surveys must be completed during the active bat season (May – Best practice survey guidelines (Collins, 2016) recommends additional surveys for features assessed as having low to high suitability for roosting bats. One, two or three further surveys are

Negligible likelihood of a bat roost present

Buildings assessed as comprising negligible suitability for roosting bats do not normally require further surveys. However, if bats are found during any stage of the development, work should stop immediately and a suitably qualified ecologist should be contacted to seek further advice

Appropriate justification for this assessment is provided in Section 3 and Tables 1 and 2 of this report.

4.2 Evaluation

Taking the desk based assessment and site survey results into account, the following value for roosting bats has been placed on each site survey feature.

Table	Table 8: Evaluation of buildings/trees on site	trees on site		Enhancements
Ref	Survey assessment	Foreseen impacts	Recommendations	The Local Planning Authority has a duty to
	conclusions (with	STATE OF THE PROPERTY OF THE PARTY OF THE PA	10. 110 (111) (11) (11)	ask for enhancements under the NPPF and
	justification)			circular 06/2005: Biodiversity and
				Geological Conservation. Para.99
			- required during the active bat	To be confirmed following further surveys.
B1	This building has a	As the proposals include the	Iwo bat emergence/le-elicity surveys are required.	
	moderate likelihood of	extension of this building, any bat	season (May – September) to confirm the presence/likely-absoluce of the	
	supporting roosting	roosts could be destroyed. This	roosting in the building. These surveys should be completed during the	
	hats.	could result in death/injury of	optimal survey period mid-May to August inclusive.	
		bats.	Sub-optimal: early May and September.	
			One of these surveys should be a dawn re-entry survey.	
			Two surveyors are required to provide full coverage of the suitable roosting	
			features noted on the building.	
			If bat roosts are confirmed an additional survey will be required to inform a	
			European Protected Species Mitigation Licence.	

Breeding Birds

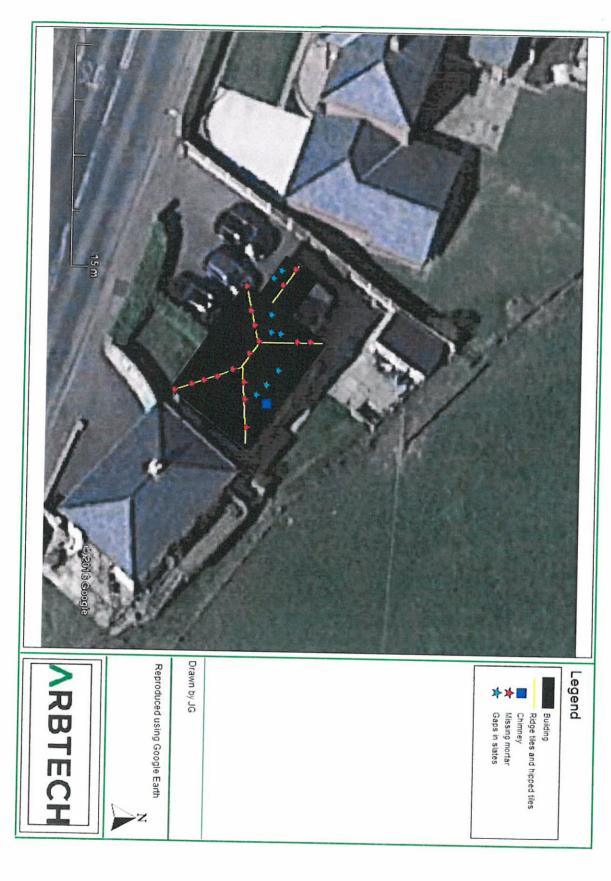
Γ														
-									_	_				B1
										habitat for birds.	site provide suitable nesting	hedges on the southern side of the	habitat value for nesting birds. The	This building contains negligible
											disturbed during the	nests could be	will be retained active	Although the hedges
										and the young have heaged.		listely prior to demonstrate of the	August. If this timeframe cannot be avoided a close income to the state of the stat	Although the hedges Building works should be undertaken outside the period 1ct March to 21.1
obscure the entrance hole.	area of the tree trunk where foliage will not	approximately 1-3m above ground on an	Small-hole boxes are best placed	prevailing wind, rain and strong sunlight.	where they will be sheltered from	approximately 3m above ground level	Nest boxes should be positioned	Schwegler 2H Robin Boxes	Schwegler 1B nest boxes	Schwegler 1SP Sparrow Terrace	garden e.g. Schwegler No 17 swift nest box	extended dwelling and/or shed in the back	a avoided a close imposition to size install three schwegler bird boxes on the	

5.0 Bibliography

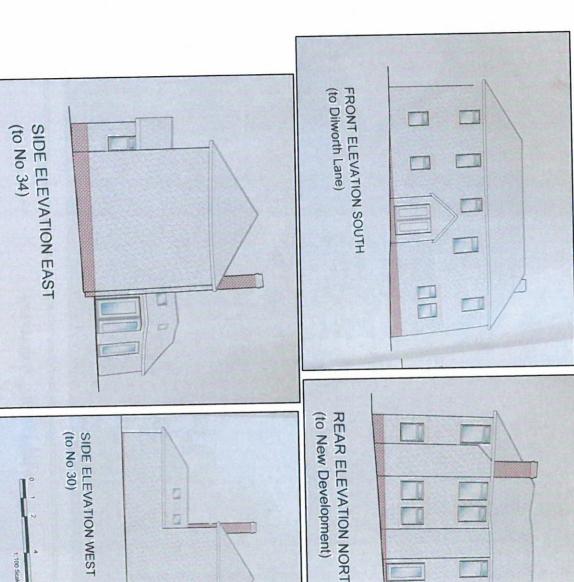
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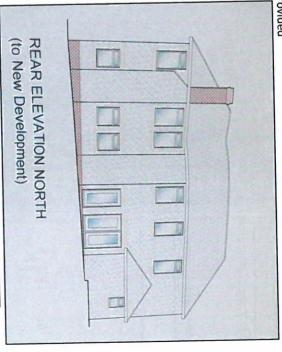
Appendix 1: Survey Plan

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Appendix 2: Proposed Site Plan None provided

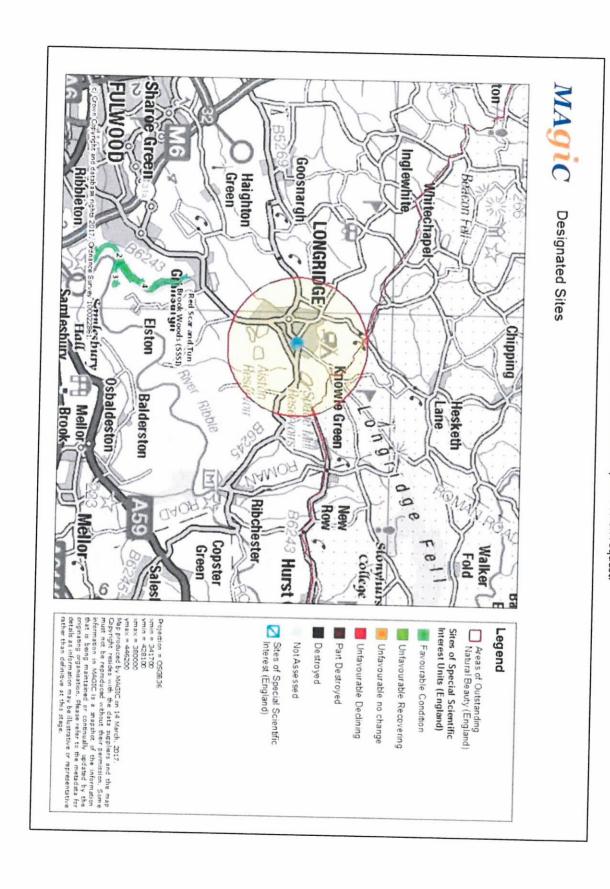


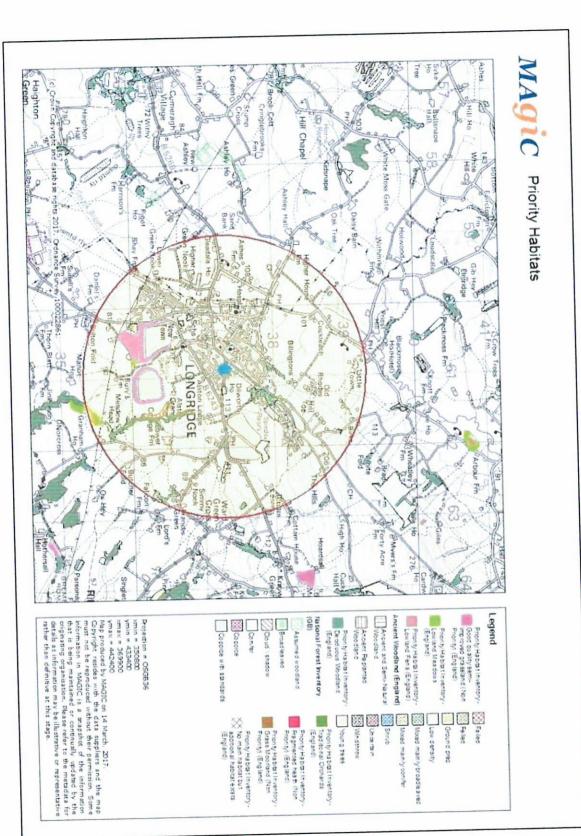


Appendix 3: Desk Study Information

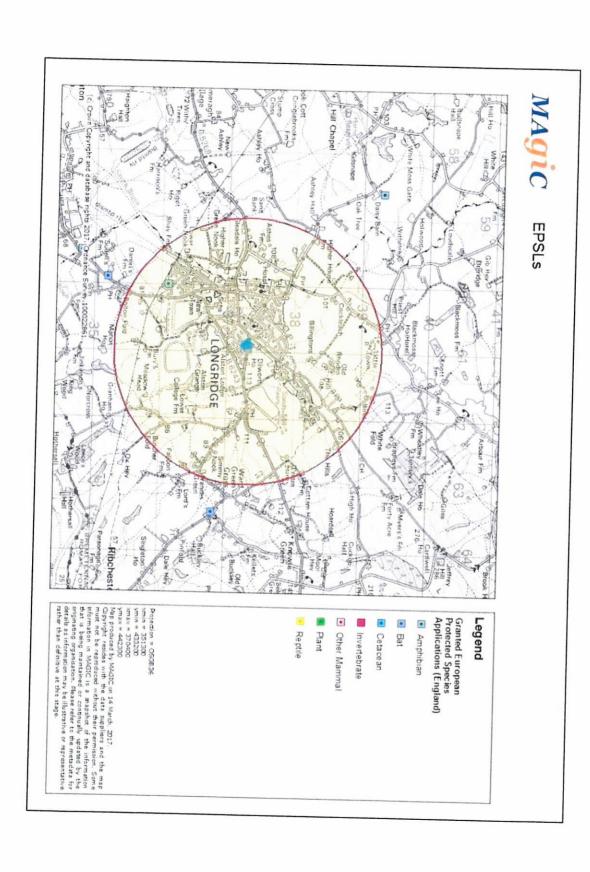
Michael Dewhurst

Full historical records can be provided on request.





Preliminary Roost Assessment



Appendix 4: Legislation and Planning Policy related to bats

LEGAL PROTECTION

All species of bat are fully protected under The Conservation of Habitats and Species Regulations 2010 (as amended) through their inclusion on Schedule 2.

Regulation 41 prohibits:

- Deliberate killing, injuring or capturing of Schedule 2 species (e.g. all bats)
- Deliberate disturbance of bat species as:
- a) to impair their ability:
- (i) to survive, breed, or reproduce, or to rear or nurture young
- (ii) to hibernate or migrate

b) to affect significantly the local distribution or abundance of the species

Damage or destruction of a breeding site or resting place

Bats are also protected under the Wildlife and Countryside Act 1981 (as amended) through their inclusion on Schedule 5. Under this Act, they are additionally protected from:

- Intentional or reckless disturbance (at any level)
- Intentional or reckless obstruction of access to any place of shelter or protection
- Selling, offering or exposing for sale, possession or transporting for purpose of sale

likely to result in a level of disturbance which might impair their ability to undertake those activities mentioned above (e.g. survive, breed, rear young and hibernate). The licence is to allow A European Protected Species Mitigation (EPSM) Licence issued by the relevant statutory authority (e.g. Natural England) will be required for works likely to affect a bat roost or for operations

derogation from the relevant legislation but also to enable appropriate mitigation measures to be put in place and their efficiency/success to be monitored The legislation may also be interpreted such that, in certain circumstances, important foraging areas and/or commuting routes can be regarded as being afforded de facto protection, for

example, where it can be proven that the continued usage of such areas is crucial to maintaining the integrity and long-term viability of a bat roost (Garland & Markham, 2008).

NATIONAL PLANNING POLICY (ENGLAND)

National Planning Policy Framework

is also made on the need for ecological infrastructure through protection, restoration and re-creation. The protection and recovery of priority species (considered likely to be those listed as UK Biodiversity Action Plan priority species) is also listed as a requirement of planning policy. The National Planning Policy Framework promotes sustainable development. The Framework specifies the need for protection of designated sites and priority habitats and species. An emphasis

mitigation or compensation where significant harm cannot be avoided; opportunities to incorporate biodiversity in and around developments are encouraged; and planning permission is In determining a planning application, planning authorities should aim to conserve and enhance biodiversity by ensuring that: designated sites are protected from harm; there is appropriate refused for development resulting in the loss or deterioration of irreplaceable habitats including aged or veteran trees and also ancient woodland.

The Natural Environment and Rural Communities Act 2006 and the Biodiversity Duty

is commonly referred to as the 'biodiversity duty'. Section 40 of the Natural Environment and Rural Communities (NERC) Act, 2006, requires all public bodies to have regard to biodiversity conservation when carrying out their functions. This

consideration in determining planning applications. A developer must show that their protection has been adequately addressed within a development proposal. list is intended to assist decision makers such as public bodies in implementing their duty under Section 40 of the Act. Under the Act these habitats and species are regarded as a material Section 41 of the Act (Section 42 in Wales) requires the Secretary of State to publish a list of habitats and species which are of 'principal importance for the conservation of biodiversity.' This