

BRADLEY MURPHY DESIGN LTD 6 The Courtyard, Dark Lane, Hatton Warwickshire CV35 8XB

e: <u>info@bradleymurphydesign.co.uk</u> t:+44 (0)1926 676496 www.bradleymurphydesign.co.uk

Ecological Verification Report:

Wells Farm, Cuffley

Technical Note

Project: 23.0062 Ref: BMD.23.0062.RPE.TN. 801. Verification Assessment

Subject: Ecological Verification Date: September 2023

Rev: -

Status:

Originated Technical reviewed Approved

KD JP Ji

SUMMARY

This Technical Note has been produced to identify habitats present and ecological constraints in relation to a Verification Assessment associated with land at Wells Farm, Cuffley (hereafter referred to as 'the Site'). The Site is approximately centred on national grid reference: TL 30000201.

The purpose of this report and walkover was to assess any changes on Site and review the suitability and applicability of the earlier surveys for determining the application. In order to determine habitats on Site, their conditions and any ecological constraints, a walkover, review of the previous ecological reports and professional judgement has been undertaken to provide up to date baseline data.

This assessment aims to:

- Baseline data: review and verify the key ecological constraints.
- Review ecological constraints relevant to the Site and ensure mitigation remains appropriate.

Overall, no changes to the Site or conditions of habitats within the Site were noted. The ecological surveys undertaken to date, and the mitigation measures proposed by Jones and Sons are still suitable for the determination of the planning application. Should the application be granted, further surveys will be required at the next stage when applying for the relocation licence to Natural England.

Declaration of compliance with professional code of ethics or conduct

The information which we have prepared and provided is true and has been prepared and provided in accordance with the Chartered Institute of Ecology and Environmental Management's Code of Professional Conduct. We confirm that the opinions expressed are our true and professional bonafide opinions.

Every reasonable attempt has been made to comply with the relevant best practice guidelines and BS42020:2013 (Biodiversity: Code of practice for planning and development).



1. CONTEXT

1.1 Landscape

- 1.1.1 The Site is approximately 0.4 ha, located off the B156, Northaw Road East, approximately 750 m southwest of the village of Cuffley, Hertfordshire. It comprises of a number of buildings and hardstanding with off-site ponds, improved grassland, species-poor semi-improved grassland field parcels and hedgerows.
- 1.1.2 The land adjoining the site is typical of this area. The Site is bounded by agricultural fields connected by hedgerows with trees. The wider landscape is characterised by mixed farmland interspersed with woodland, corridors of trees and hedgerows.

1.2 Proposed development

1.2.1 The proposals for demolition of existing buildings and erection of 14 dwellings with associated landscaping, in respect of Planning Application Reference: 6/2020/3451/MAJ.

1.3 Ecological Context

- 1.3.1 A number of assessments of the Site have been conducted from 2020-2021:
 - Eco Constraints Review, BMD (2020)
 - Preliminary Ecological Appraisal, babec (March 2021)
 - Reptile Survey, Jones & Sons Environmental (June 2021)
 - Great Crested Newt Survey, Jones & Sons Environmental (September 2021)
 - Interim Bat Report, Jones & Sons Environmental (July 2021)
 - Bat Report, Jones & Sons Environmental (August 2021)

Habitats:

- 1.3.2 A Site visit was undertaken on 24th August 2023 with a detailed walkover survey carried out of the Site and the local environment. The following habitats were recorded on Site:
 - <u>Buildings</u> A number of buildings are present on Site, these include warehouses, stables, residential and barns.
 - <u>Hardstanding</u> An area of hardstanding/ gravel surrounded the buildings.



2. VERIFICATION SURVEY RESULTS 2023

2.1 Habitat Focused

2.1.1 A verification survey was undertaken on 24th August 2023 with detail of the findings set out below. Table 3.1 provides a summary of the nature conservation importance of habitats within the Site.

Table 3.1 Summary of the nature conservation importance of habitats within the Site.

Habitat	Meets UK Priority/Local BAP habitat criteria	Condition ¹	Geographical context ²
Hardstanding	No	N/A	Site
Buildings	No	N/A	Site
Modified grassland	No	Poor	Site

Notes:

2.2 Habitats

Buildings & Hardstanding

2.2.1 There are a total of 8 buildings and associated hardstanding within the Site, comprising buildings B-G, and a shed. Descriptions of these buildings are provided within The Preliminary Ecological Appraisal (Babec, 2020). The conditions and descriptions of these buildings remain the same since the 2021 Assessment.

Modified Grassland

2.2.2 An area of modified grassland was recorded around the stable block and bounding other buildings within the Site. This is well managed by mowing with few species. Dominant species were perennial ryegrass and white clover.

2.3 Invasive species

2.3.1 No invasive species were recorded on Site. It is possible that invasive species are present in the locality.

2.4 Protected and Notable species

Bats

2.4.1 The potential for bat roosts was assessed as part of the Preliminary Ecological Appraisal and further activity surveys carried out by Jones & Sons Environmental Sciences. A number of bat roosts were confirmed in July 2021 (Jones & Sons, Interim Bat Report, July 2021). These include:

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- Building C/E Hibernation roost for a pipistrelle species;
- Building B Day roosts for common pipistrelles and soprano pipistrelles.
- Building F Day roost for brown long eared bats.

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^{1.} As determined using the Biodiversity Metric 4.0 guidance. Where it is considered that the condition outcome is inappropriate justification is given in the text. See Appendix E for detailed habitat assessments

^{2.} Geographic level at which the habitat is considered important



- 2.4.2 The updated assessment carried out by BMD in August 2023, confirms no change in conditions to the buildings previously surveyed. No new potential roost features were recorded and all buildings were noted to be in the same condition when assessed in 2021.
- 2.4.3 The Preliminary Ecological Appraisal (babec, 2020) also identified some trees with potential as bat roost the majority of these were outside the development boundary but three, namely T4, T3, and T9 as numbered within that report lie within the red line boundary. These were assessed as having low suitability, the updated walkover carried out by BMD confirms they are still categorised as low potential, therefore if removed they will require soft felling with a suitably qualified ecologist watching brief.
- 2.4.4 All works relating to the destruction of the existing bat roosts will require a European Protected Species (EPS) licence from Natural England as previously. Building C, E, B & F will require an EPS licence, updated surveys of these buildings will be undertaken before a licence is applied for to meet the licence requirements with regard to age of survey data for licence applications.

Reptiles

- 2.4.5 A low population of slow worms and grass snakes was identified by Jones & Sons (Reptile Report, June 2021) within a field parcel to the west of the Site.
- 2.4.6 An updated walkover of the site in August 2023 confirmed that these populations are likely to still be utilising the Site at the same population index as previously recorded. Habitats these species were recorded in are in a similar condition as previously assessed.

Great Crested Newts

- 2.4.7 Three ponds are present within the Site. A low population off great crested newts was confirmed by Jones& Sons Environmental Sciences (2021) within the garden pond labelled P2.
- 2.4.8 An updated Habitat Suitability Index was undertaken in August 2023, confirming that conditions within the ponds are the same and it is unlikely that the population of great crested newts has expanded over this period. In summary the results of the HSI are; P1 Poor (0.38) P2 Good (0.78) P3 Poor (0.49).
- 2.4.9 P2 is to be impacted and lost according to the proposals, the clearance work for the development will also impact the terrestrial vegetation used by GCN. Jones and Sons (2021) recommended a method statement to mitigate and an EPS Licence from Natural England.
- 2.4.10 Mitigation and compensation measures proposed by Jones and Sons are recommended and will include:
 - Suitable receptor pond to be found and translocation of newts to be undertaken to new receptor pond.
 - Newts to be trapped within terrestrial habitat and pond.
 - Draining of the pond under watching brief by suitably qualified ecologist.
 - Exclusion fencing around development.
 - New ponds to be created.
 - Enhancement to P3 and terrestrial habitat surrounding.

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- Hibernacula and tree planting to increase commuting corridors.
- 2.4.11 An updated population index will be undertaken of P2 before a licence application from Natural England is applied for.



3. CONCLUSION

3.1.1 Overall, no changes to the Site or conditions of habitats within the Site were noted. The ecological surveys undertaken to date, and the mitigation measures proposed by Jones and Sons are still suitable for the determination of the planning application. Should the application be granted, further surveys will be required at the next stage when applying for the relocation licence to Natural England.



4. REFERENCES AND BIBLIOGRAPHY

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5. GLOSSARY

5.1 Scientific Terms and Acronyms

- **CIEEM** Chartered Institute of Ecology and Environmental Management, the professional organisation and provider of professional codes of conduct for ecological consultancy.
- **Non-native invasive species** For the purposes of this report: species listed on Schedule 9 of the wildlife and Countryside Act 1981 (as amended). Widely naturalised species, such as grey squirrel, are excluded.
- **UK Priority Habitat and species** A habitat or species identified as a priority for conservation in accordance with Section 40 of the Natural Environment and Rural Communities Act (2006). Section 40 of the Act places a duty on public authorities to have regard for the conservation objectives of these habitats and species.
- SECT 41 NERC Section 41 (S41) of the 2006 Natural Environment and Rural Communities (NERC) Act



APPENDICES



A. SITE PHOTOGRAPHS





Photograph 1: View of Building B, with confirmed roost.



Photograph 2: View of Building F, former stable block with confirmed roost.



Photograph 3: View of Building C with confirmed roost.



Photograph 4: View of building E with confirmed roost.



Photograph 5: View of Buidling D and associated hardstanding.



Photograph 6: View of P3.





Photograph 5: View of P2 within residential garden.



Photograph 6: View of P1 ornamental pond within garden.



B. METADATA, SURVEY CONDITIONS AND LIMITATIONS

B.1 Metadata

Factor	Detail
Data	Ecological verification of Wells Farm, Cuffley
Reason for collection	To identify ecological constraints and to confirm/inform appropriate mitigation in relation to proposed works.
Location	Wells Farm Cuffley, Hertfordshire. Approximately centered on national grid reference: TL 30000201
Date	24 th August 2023
Method of collection	Ecological verification assessment based on JNCC Phase 1 Habitat assessments.
Who collected	Katie Dalton BSc (Hons) MRSB ACIEEM

B.2 Survey Conditions

Date	Start Time	Cloud (%)	Sun	Precipitation
24/08/2023	09:00-11:30	20	Sunny	None

B.3 Limitations Review

Consideration	Comment	
Survey & data		
Personal competence, i.e.	All survey works were undertaken by or directly supervised by personnel experienced in	
qualifications, training, skills,	ecological surveying (see meta data).	
understanding, experience	Katie Dalton MRSB ACIEEM has over 5 years' experience in ecological consultancy, including an	
	experience of performing the survey work and assessments undertaken at Site, along with	
	technical reporting. Katie holds Level 2 bat class licence and level 2 great crested newt class licence.	
	James Patmore CEcol CEnv MCIEEM has over 21 years experience in ecological consultancy,	
	including an extensive amount of experience performing and directing the survey work and	
	assessments undertaken at the Site.	
Resources (equipment and/or	Appropriate resources and suitably qualified personnel were used.	
personnel)		
Time spent surveying	Sufficient time was spent on site to undertake all surveys. No surveys were 'cut short'.	
Data (e.g. arising from incomplete or	The data collected were sufficient for the purpose of the works.	
inappropriate surveys)		
Lack of statistical robustness and	Statistical analysis of data was not deemed necessary for the purpose of the current works.	
higher uncertainties		
Old and out of date data	The data used to complete this Ecological Verification Assessment were current and up to date.	
Timing or seasonal constraints and suboptimal survey periods	The survey was conducted in August 2023. This is an appropriate survey period.	
Partial use of and/or departures from	All surveys accorded with the relevant best practice guidelines.	
good practice guidelines		
Site conditions & other factors		
Adverse weather conditions	No significantly adverse weather conditions were encountered during the survey work	
	undertaken at the Site that would be considered to have significantly adversely impacted the	
	reliability and/or accuracy of data collected.	

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eas of the Site were accessed with no restrictions.
strictions on survey data collected or analysed to date are as a result or unrealistic ines.
valuation of the conservation value of habitats and species associated (or potentially
iated) with the Site and impacts of the development, are based on the current information ble.
valuation will need to be reviewed and updated as necessary should a considerable period are (24 months) elapse and/or more data from other survey work (on and within 1 km of the pecomes available.



C. DETAILED SURVEY RESULTS

C.1 Species Recorded on Site

English Name	Scientific Name
Plants	
Perennial rye-grass	Lolium perenne
White clover	Trifolium repens

C.1 Habitat Suitability Index

Habitat Suitability Index (HSI Assessment)

- C.1.1 Following the desk study, a decision was made as to whether to undertake HSI assessment of all ponds within 250 m of the survey Site following current guidance and professional judgement. The HSI assessment was undertaken in line with best practice guidelines by a suitably experienced ecologist.
- C.1.2 The HSI assessment is a standardised methodology (developed by Oldham *et al.* (2000) and subsequently adapted by Amphibian and Reptile Groups of the UK (2010)). It is used for assessing the potential for waterbodies to support great crested newts based upon various characteristics of the waterbody, see Table B4.1.

Table B4.1 Waterbody characteristics used during HSI assessment

Characteristic	Description
SI1 Location	The location of the waterbody within Great Britain
SI2 Pond area	The area of the waterbody supporting water
SI3 Permanence	How often the waterbody appears to dry out
SI4 Water quality	The water quality, indicated largely by invertebrate assemblages
SI5 Shade	The percentage of shade along the waterbody's perimeter
SI6 Fowl	The presence / absence and intensity of water fowl impacts
SI7 Fish	The presence / absence and intensity of fish impacts
SI8 Pond count	The number of water bodies within 1 km excluding those separated from the surveyed waterbody by dispersal barriers such as large roads
SI9 Terrestrial	The suitability of terrestrial habitat surrounding the waterbody for great crested newt
Sig Terrestrial	The suitability of terrestrial nabitat surrounding the waterbody for great crested newt
SI10 Macrophytes	The estimated percentage cover of the waterbody by macrophytes between May and end of
	September

C.1.3 The overall suitability of the waterbody is then calculated by entering scores for each category into an equation provided within the standardised methodology. The outcome of the calculation determines the suitability of a waterbody as either 'poor', 'below average', 'average', 'good', or 'excellent'.