

Ecological survey: Protected species and habitats.

Replacement Garage, Meadowside, 3 Upper Street, Oakley, Diss, IP21 4AX.

Final report: 7<sup>th</sup> November 2022.

Author: John Parden Natural England Bats (All species) Licence No. 2015-14697-CLS-CLS Natural England Great Crested Newt Licence No. 2021-53785-CLS-CLS (GCN)

# JP ecology

2 Jubilee Corner Cottages Stradbroke Road Fressingfield Suffolk IP21 5PP Office: Mobile: e-mail: 01379 586830 07908 748079 John@JPecology.co.uk

# 1.0: Executive Summary:

The site was surveyed by John Parden of JP ecology on 27<sup>th</sup> September 2022 for all protected species and habitats, specifically Bats and Great crested newts (GCN).

The habitats within the defined development area were built environment, garages, within surrounding domestic gardens, hardcore and close mown grass. Other habitats of consideration include the ponds within 100m radius.

**Desktop survey** – A desktop survey, using data supplied by SBIS, identified no rare or protected species on the development site. Two record of Great crested newts was returned within 200m of the defined development site (280m of the proposed development). The record dated to 2019 and 2017.

**Bats** – The building was of 'low' bat roosting potential. No bats or evidence of roosting bats was found within the building however the building did offer some limited potential bat roosting opportunities and consequently could not be classified as having 'negligible' bat roosting potential.

In accordance with current guidelines a single bat activity survey (between May and end August) should be conducted to give confidence to the scoping survey results.

**Great crested newts.** – three ponds were shown on OS maps within 100m of the proposed development. Two of the ponds were not present on the ground. The third ponds scored 'average' suitability for breeding GCN. There were no terrestrial habitats favourable for GCN on the development site.

Given that records of GCN have been returned in the local area (most recent dated 2019) further surveys during the appropriate season (March to June) are required to determine absence or presence of GCN.

Birds - Nesting birds should not be disturbed during the bird nesting season.

All other protected or rare species - No other protected species or habitats are relevant to this site.

#### Mitigation.

#### General mitigation – all species.

- The contact details of a suitably licenced ecologist should be made available to the development contractors.
- Advice must be sought from an ecologist if any protected species are inadvertently disturbed.

# Obligatory mitigation.

- Nesting birds
  - Nesting birds should not be disturbed during the nesting season typically 1<sup>st</sup> March to 31<sup>st</sup> August (species dependant).
  - Should it be necessary to strip the site during the nesting season, specifically the demolition of any parts of the barn, the site should be searched by a suitably qualified ecologist for nests and any active nests protected until the young have fledge.
  - Great crested newts further surveys are required to determine whether GCN are present within the defined 100m search area, and if they are then further mitigation proposals should be considered.

# Precautionary mitigation.

#### Site clearance.

- Amphibians. The specifics of the clearance of the site with regard to Amphibians are as follows: • Any debris piles should be dismantled by hand and the materials kept in skips until moved off
- site or disposed of.
- Any debris and materials arising from the proposed construction should be stored in skips and/or on pallets to prevent creating refuge sites for reptiles or amphibians.
- The clearance of ruderals and vegetation > 300mm in height should be done during spring / summer (Feb to October) when amphibians and reptiles are active, all vegetation should be cut down to 150mm above ground level and left for at least an hour before final clearance to allow any reptiles or amphibians that may be present to disperse or to be carefully relocated to hedgerows in the local vicinity. Once cleared the land should be maintained as bare ground or short mown grassland throughout the development process.
- If a great crested newt is discovered at any stage of the development, work should cease immediately, and an ecologist should be contacted for further advice.
- Small mammals including hedgehogs.
  - Any debris and materials arising from the proposed construction should be stored in skips and/or on pallets to prevent creating refuge sites for reptiles or amphibians.
  - Clearance of any debris or waste should be done sensitively with consideration to disturbance of hedgehogs.
  - Vegetation above 300mm above ground level should not be cleared until temperatures are above 6C for at least 6 consecutive days to avoid disturbance of hibernating hedgehogs.
  - Any fences that might be erected should include a gap of 150mm long by 100mm high at some point in the base of each run of fencing to enable terrestrial vertebrates, including hedgehogs, to move through the plot and prevent entrapment.
- To avoid the risk of causing injury or harm to small mammals, amphibians and reptiles during the construction process the generic method statement attached in appendix 1 should be made available to all contractors.
- Should the Local Planning Authority be minded to grant planning permission then it is advised that the site be maintained as bare ground or close mown grassland until the development works start. Reason, to prevent the establishment of any features of ecological interest becoming established on the site prior to the commencement of works.

#### Ecological Enhancement.

• Birds. - 2 x bird box (house sparrow terrace) to be mounted under the eaves and 1 x built in bat box to be mounted as high as practically possible on the gable end wall.

#### Clients responsibility towards protected species.

The site owner has a responsibility to ensure that protected species or their resting places are not killed, injured or disturbed as a consequence of their actions.

Whilst the results of the survey are considered to be conclusive at the time that the survey was conducted, there is always a possibility that protected species might occupy the site between the period of the survey and the commencement of any works on the site. If any protected species are discovered during any construction works a qualified ecologist should be contacted for advice or assistance.

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## 2.0: Contact details:

#### Architect:

Ashley Largent Associates (ALA Ltd) The Studio Fair Green, Diss, Norfolk, IP22 4BG.

#### Client:

Mr & Mrs Atha Meadowside, 3 Upper Street, Oakley, Suffolk, IP21 4AX

# **Ecological Surveyor:**

JP ecology John Parden (BSc. PgDip) 2 Jubilee Corner Cottages, Stradbroke Road, Fressingfield, Suffolk. IP21 5PP. Tel: Office: 01379 586830 Mobile: 07908 748079 e-mail: John@JPecology.co.uk

Natural England Bats (All species) Licence No. 2021-53785-CLS-CLS Natural England Great Crested Newt Licence No. 2015-14697-CLS-CLS

## 3.0 Introduction:

## 3.1 Brief:

John Parden (Licensed ecologist) of JP ecology was commissioned by ALA (instructing architects) to undertake a protected species survey (All relevant protected species) in or around the properties and grounds at: Meadowside, 3 Upper Street, Oakley, Suffolk. IP21 4AX. The survey is required for inclusion with a planning application for the site to enable the planning authority (Mid Suffolk District Council) to determine whether the proposals satisfy legislative considerations with regard to biodiversity and protected species.

#### 3.2 Site development proposals:

Plan 1. Site location plan and site boundary plan. (Illustrative only do not scale)



Plan 2. Showing existing and proposed block plan (Illustrative do not scale).





The property is subject to a planning application including:

• Replacement of an existing garage with a replacement structure, including car parking with residential accommodation above.

For the purposes of the ecological survey it is assumed that:

- The proposal will include demolition of the existing and construction of a replacement structure.
- No temporary access points or temporary hard standing areas outside of the illustrated curtilage (plan 1 above) will be used for site access, construction traffic or storage of building materials.
- All site access will be via existing driveways and service areas.
- No ponds or watercourses will be disturbed or affected by the development works.
- There will be no loss of aquatic habitats on the site.
- All buildings to be converted will be confined to their existing external footprint.

# 3.3 Scope of the survey:

The survey includes:

- In accordance with the Mid Suffolk Planning validation requirements.
  - The development is classified as 'Minor' being less than 10 buildings and less than 0.5ha, the development includes the following features that trigger the need for protected species surveys:
    - Ponds / water within 100m.
  - The species triggered include:
    - Pre 1960's structures.
      - Bats.
    - $\circ$  Developments within 100m of a pond.
      - Great crested newts
        - Amphibians
- Consideration was given to all other protected species that may be affected by the development.

# 3.4 Survey objectives:

The survey aimed to establish:

- Whether protected species or habitats were present on the site and would be impacted upon by the development.
- Whether the development will have any impacts upon other sites of ecological interest within the wider landscape.
- Whether the development was likely to have any long-term impact upon the local biodiversity.

# 3.5 Site & location:

**Within the wider landscape:** The site is located within a wider landscape that is of medium interest for biodiversity, whilst dominated by agricultural land used mainly for intensive arable crop production, a habitat of relatively low ecological interest, it does include features of high ecological interest including pockets of woodland, grassland and meadows.

Within the immediate vicinity of the site: The development site is entirely existing garages and workshop located within the grounds and gardens of an occupied and well maintained domestic residence.

Three ponds / water features were identified on the OS maps within 100m. (see fig 2 below).

# Natural or semi-natural habitats on the development site.

Habitats on site include

- Existing garage buildings.
- Occupied domestic residence.
- Managed gardens.

There are no natural or semi natural habitats on the site.

#### 3.6 Desktop Survey



Fig 1. Illustration of data search supplied by SBIS.

#### Sites designated for ecological interest:

Nationally designated sites, Sites of Special Scientific Interest (SSSI). See Fig 1 above.

There is one SSSI's within a 2km radius of the site.

• Hoxne Brick Pit located approximately 1.8km to the east.

#### Locally designated sites,

There is no locally designated site within a 2km radius. See Fig 1 above.

#### **Protected species:**

A local records search was supplied by Suffolk Biological Information Service.

Of those species triggered (section 3.3 above)

 Bats – 64 records of 7 different species within a 2km radius. No records exist on the proposed development site.

11 records

7 records

4 records 2 records

- Common pipistrelle
   Soprano Pipistrelle
   16 records
   12 records
- Brown long eared bat
   12 records
- Noctule bat
- Natterers bat
- Daubenton's bat
- Myotis spp

Great Crested Newts

- 2 records.
- Both records are approximately 200m to the south (from the proposed development boundary, 280m from site of proposed new structure).
- Common Frog
   1 record
- Common Toad
   1 record
- Other amphibians.

- Common Toad –
   1
  - 1 record 1 record
- Common Frog –
   Hedgehog and brown hare, -
- Hedgehog -

19 records of hedgehog.

# Pond and waterbody survey:

A search for ponds within 200m and named / significant watercourses within 200m was conducted using Ordnance Survey Data and public Environment Agency data.

- Ponds within 100m radius:
  - There are three ponds with 100m of the site. See section 5.2.2 for locations
  - Watercourses within 200m radius:
    - There are no permanent or named watercourses within a 200m radius.

Fig 2. Illustrating the location of ponds within 100m.



#### SSSI impact Zone.

The site falls within the SSSI impact zones for Hoxne Brick Pit SSSI and Gypsy Camp Meadow SSSI An SSSI impact Zone Risk Assessment was conducted using DEFRA Magic Maps. (Illustration of impact zone assessment results shown in fig 4 below.)

The development did not include any factors that would trigger the need to consult with Natural England.

Fig 3. Illustrating the results of the SSSI Impact Zone site check.



4.0 Surveys.

## 4.1 Methodologies

Bat Survey – the bat survey was conducted in accordance with the guidance described in 'Bat Survey Good Practice Guidelines 3<sup>rd</sup> edition 2016, Collins J (ed).

Pond Survey - The pond survey was conducted following standard survey methodologies appropriate for Great crested newts, specifically the Great Crested Newt Habitat Suitability Index Assessment (HSI)(Oldham *et al.* 2000) and Natural England Standing Advice Sheet: Great crested newts. The results were interpreted in accordance with Natural England Guidance.

Other species were surveyed by looking for tracks, droppings, feeding evidence and field signs.

#### 4.2 Scoping Survey Results.

The site was surveyed by John Parden of JP ecology on 27<sup>th</sup> September 2022. The conditions were suitable to conduct a conclusive survey.

#### 4.2.1 Habitats

The defined development site (see plan 1 above) is entirely built environment and adjoining close mown grassland accessed via an existing site entrance and hardcore / gravel driveway.

There were no rare or protected habitats on the site.

The development proposals include the use of existing hard standing access road and site entrance consequently there will be no loss of hedgerow or trees.

There will be the requirement to prune the overhanging branches from an adjacent tree.

The habitats include:

- Short grazed grassland.
- Buildings, garages.
- Existing hardcore entrance driveway / track.

Table 1. Habitats on the site.								
Photo No.	Image	Description						
Photo 1		Showing the habitats on site including gravel driveway, well maintained gardens, overhanging tree (requiring pruning) and the existing structures.						

#### Discussion and conclusions.

No rare or protected habitats will be lost or impacted upon by the development.

Site clearance should be managed in accordance with the mitigation outlined in section 6 below to minimise the risk of causing injury or harm to any wildlife, specifically terrestrial mammal and amphibians.

#### 4.2.2 Bat survey.

### 4.2.2.1 Garages.

The building is a combination of an old single garage with a pitched roof lined below with mineral felt, and an adjoining more recent double garage.

The older pitched roof garage has traditional pantiles over a felt lining supported on a simple timber frame without complex joints or mortice and tenon joints which could potentially offer roosting opportunities for bats.

The walls are brick / block up to eaves with timber cladding to the gables above eaves. The eaves included an enclosed boxed section that could potentially be used by bats. The building did not include any enclosed loft spaces or roof voids.

The flat roofed garage was of simple construction with solid block walls and a flat roof covered with mineral felt.

The had no voids or cavities that could potentially be used by bats.

The wall along the north eastern corner had a large crack in that could potentially be used by roosting bats.

A thorough search of the building found no bats or evidence of bats in the form of droppings, feeding remains, scratching or polishing.

Table 2: Building 1. Illustrating survey results.								
Photo No.	Image.	Notes.						
Photo 2		General image of the structure, showing the more modern flat roofed building and the adjoined traditional garage with its pitched (ridged) roof clad with pantiles.						
Photo 3		Image to roof construction and underside of the flat roof.						

Table 2: Building 1. Illustrating survey results.										
Photo No.	Photo No.	Photo No.								
Photo 4		around the flat roof of the more modern garage.								
Photo 5		Image to show pantiled roof of								
		pitched (ridged) building.								
Photo 6		Illustrating the boxing to the								
		eaves of the old section of garage with potential access points where it joins the timber cladding. The gap between the boxing and cladding was clear of cobwebs.								
Photo 7		Showing the mineral felt underlining below the ridge tiles.								

#### Discussion and Conclusions – summary of bat activity outlined in table below.

Table 3. Summary of bat roost potential and evidence of bats.							
Building number.	Bat roosting potential	Evidence of bats found					
1. Garages	The pitched (ridged) roof section of garage was assessed as being of 'Low' bat roosting potential. Bat roosting opportunities were restricted to cavities between the roof tiles and the felt under lining and within cavities in the eaves of the pitched roof (old) garage. The flat roof section of the garage was assessed as being of 'negligible' bat roost potential.	No bats or evidence of bats observed.					

The old pitched roof garage did have features that could potentially offer bat roosting opportunities and consequently could not be classified as having 'Negligible' bat roosting suitability.

Given the absence of any evidence of bats it is reasonable to classify the buildings as having 'Low' bat roosting suitability.

In accordance with current best practice guidelines a single bat activity survey during the appropriate season is required to give confidence to the results of the scoping survey.

# 4.2.3 Pond Surveys.

Three ponds were identified within 100m of the development site. OS grid ref:

- Pond 1 TM15507668 80m from structure subject to development
- Pond 2 TM15577664 50m from structure subject to development
- Pond 3 TM15687672 60m from structure subject to development

**Pond 1.** A dry ditch within adjacent woodland. There was no evidence that this feature had held water in recent times and was largely infilled. Ownership was unclear and permission to survey was not obtained.

**Pond 2.** A garden pond which was located within the grounds and gardens of the neighbouring property. The pond was dry and has been has been largely infilled. According to local knowledge the feature has not existed as a pond for many years. Permission to survey was granted.

Photo 8: Showing the area of the neighbouring garden where the pond is indicated on OS maps.



## 4.2.3.1 Pond 3 survey results.

Table 4.     Great Crested Newt Habitat Suitability Index (HSI)											
Backaround Info	mation	<u></u>					,		()		
Pond Number	3				Survey date 27 <sup>th</sup> Sept 2022						
					ocation	-		OS c	arid ref: TM1	5687672	
Access	Good all round			Di	ist. from a	developr	nent	Approx 60m, separated by arable farmland.			
				Su	Jrveyor			J Parden. NE licence: 2021-53785-CLS- CLS			
General descript	ion.			Pł	Photo 9. Showing pond 3						
General description. A garden located within an arable field and surrounded all round with trees and shrubs. The pond was holding water at the time of the survey, note: following the recent hot and dry summer this was one of the few ponds holding water and is therefore considered to be a permanent water feature. Water levels were low.			and s. of								
				×		A.,		al de	all a		
Factor		011	7	1						Score	
Location		SII	Zone		1050						
Pond area SI2 Area app maps)					prox. 1050 sq.m (measured using magic					0.95	
Permanence		SI3	Neve	er dries.	es.					0.9	
Water quality SI4 Poor at populat			at time Jation c etation.	me of survey – Low invertebrate 0.33 on assumed, absence of aquatic on.							
Shading		SI5	60%	surround	ding tree	s.	1				
Waterfowl		SI6	Prese Presu	ent in loo Jme mir	local area but not present on the pond. 0.67 minor.						
Fish SI7 Permane low at th being in fish, post			nanent v at the tir g insuffic possible med.	int water feature. The water levels were e time of the survey and assessed as ufficient to support a population of large ible small fish such as sticklebacks							
Pond Density		SI8	More	e than 1	3 = score	1					
Terrestrial Habitat SI9		Poor less than 25%. The immediate surrounding habitat is favourable for amphibians, being surrounding trees and hedgerow. The pond is located within an arable field which is of low fayourability for terrestrial amphibians.						0.33			
Macrophytes SI10 0% at the were low normal st			t the tim low an nal state	e time of survey however the water levels and may not be a true reflection of its tate.				er levels n of its	0.3		
					Total					0.65 (Average)	
Great Crested Newt Absence / Presence survey								/			
Date	Water temp <5°C*	Ph <6**	To M	rch F	Net	Bottle trap	Egg searc	h	Other species	Comment	
* Water temp	<ul> <li>See discussion below. Pond scored 'average'. The results of the HSI survey were not sufficient on their own to justify a conclusion that Great crested newts are not present and consequently it is recommended that further surveys are conducted to determine absence.</li> </ul>										

# 4.2.3.2 Discussion and Conclusions ponds.

Table 5. Summary of pond surveys.									
Pond	Present	HSI	HSI score	HSI score	HSI	HSI score	Separation	Permission	
number	ground	poor	average	average	good	excellent	barriers	granted	
1	No		Ŭ		Ŭ		N/A	No	
2	No						N/A	yes	
3	Yes			X			50m of arable field, minor barrier.	yes	

Further surveys are required to determine the presence or absence of Great crested newts within pond 3 based upon:

- The ponds scored 'average' favourability for Great crested newts.
- Records exist for Great crested newt approximately 200m to the south of the defined development site (280m from the proposed site of the new building).

#### 4.2.4 Nesting Birds.

Birds nests were not observed within the buildings at the time of the survey however birds can nest in the most unlikely of locations consequently mitigation is offered in section 5.2.

#### 4.2.5 Other protected species including barn owl.

No other protected species were relevant to the site.

# 5.0 Mitigation.

# 5.1 Further surveys.

- Further surveys during the appropriate seasons are required to support the conclusions, including:
  - Great crested newts surveys within pond 3.
  - o A single Bat activity survey of the garage.

## 5.2 General mitigation – all species.

- The contact details of a suitably licenced ecologist should be made available to the development contractors.
- Advice must be sought from an ecologist if any protected species are inadvertently disturbed.

## 5.3 Obligatory mitigation.

- Nesting birds
  - Nesting birds should not be disturbed during the nesting season typically 1st March to 31st August (species dependent).
  - Should it be necessary to strip the site during the nesting season, specifically the demolition of any parts of the barn, the site should be searched by a suitably qualified ecologist for nests and any active nests protected until the young have fledge.

# 5.4 Precautionary mitigation.

- Site clearance.
  - Amphibians. The specifics of the clearance of the site with regard to Amphibians are as follows:
    - Any debris piles should be dismantled by hand and the materials kept in skips until moved off site or disposed of.
    - Any debris and materials arising from the proposed construction should be stored in skips and/or on pallets to prevent creating refuge sites for reptiles or amphibians.
    - The clearance of ruderals and vegetation > 300mm in height should be done during spring / summer (Feb to October) when amphibians and reptiles are active, all vegetation should be cut down to 150mm above ground level and left for at least an hour before final clearance to allow any reptiles or amphibians that may be present to disperse or to be carefully relocated to hedgerows in the local vicinity. Once cleared the land should be maintained as bare ground or short mown grassland throughout the development process.
    - If a great crested newt is discovered at any stage of the development, work should cease immediately, and an ecologist should be contacted for further advice.
  - Small mammals including hedgehogs.
    - Any debris and materials arising from the proposed construction should be stored in skips and/or on pallets to prevent creating refuge sites for reptiles or amphibians.
    - Clearance of any debris or waste should be done sensitively with consideration to disturbance of hedgehogs.
    - Vegetation above 300mm above ground level should not be cleared until temperatures are above 6C for at least 6 consecutive days to avoid disturbance of hibernating hedgehogs.
    - Any fences that might be erected should include a gap of 150mm long by 100mm high at some point in the base of each run of fencing to enable terrestrial vertebrates, including hedgehogs, to move through the plot and prevent entrapment.
- To avoid the risk of causing injury or harm to small mammals, amphibians and reptiles during the construction process the generic method statement attached in appendix 1 should be made available to all contractors.
- Should the Local Planning Authority be minded to grant planning permission then it is advised that the site be maintained as bare ground or close mown grassland until the development works start. Reason, to prevent the establishment of any features of ecological interest becoming established on the site prior to the commencement of works.

# 5.5 Ecological Enhancement.

• Birds. - 2 x bird box (house sparrow terrace) to be mounted under the eaves and 1 x built in bat box to be mounted as high as practically possible on the south facing gable end wall.

#### 5.6 Clients responsibility towards protected species.

The site owner has a responsibility to ensure that protected species or their resting places are not killed, injured or disturbed as a consequence of their actions.

Whilst the results of the survey are considered to be conclusive at the time that the survey was conducted, there is always a possibility that protected species might occupy the site between the period of the survey and the commencement of any works on the site. If any protected species are discovered during any construction works a qualified ecologist should be contacted for advice or assistance.

# Appendix 1.

# Generic method statement to avoid harm to reptiles, amphibians and small mammals including hedgehogs and brown hare.

# Timing:

- (a) Restrict works to the winter period (when amphibians are rarely active above ground) if the site is close to aquatic habitats or Amphibians are relevant to the site.
- (b) Keep duration of groundworks as short as possible.

## Construction methods and special precautions:

- (a) Backfill trenches and other excavations before nightfall, or leave a ramp to allow newts to easily exit.
- (b) All open trenches, footings, and pipe runs should be covered with shuttering ply overnight and the edges sealed with damp sand.
- (c) Raise stored materials (that might act as temporary resting places) off the ground, eg on pallets.
- (c) For pipelines, use directional drilling to cross areas of core habitat and newt dispersal routes.
- (d) All caustic materials (cement, lime plaster etc) should be mixed on tarpaulin and folded at night or mixed on the floor of a sealed building.
- (c) No caustic material should be allowed to contaminate the adjacent ground or allowed to form run-off that may contaminate ponds or watercourses.
- (d) All piles of rubble and spoil should be removed from site and not left during late summer / winter to form hibernacula for Amphibians and reptiles.
- (e) All waste materials should be stored in skips resting on areas of shingle/bare or hard standing.
- (f) Keep vegetation around the developed site should be kept short to discourage use by reptiles and amphibians.
- (g) Fire sites should be in a designated area on shingle/bare ground and well away from the ponds/water bodies and should be burnt daily, they should always be checked for sheltering mammals eg. Hedgehogs.
- (f) Avoid installing structures that act as barriers close to ponds, or include gaps at ground level where walls or fences are unavoidable to prevent entrapment of reptiles, amphibians or small mammals within the construction area.
- (g) If any protected species (e.g. bats, great crested newts) are discovered during the redevelopment then work should stop immediately and advice sought from an ecological consultant.
- (h) If in any doubt contact a Natural England Licenced ecologist: John Parden of JP ecology 01379 586830