



## Preliminary Ecological Appraisal

Northwood Cricket Club, Duckshill Road, HA6 2NP

Colin Hulott

Status	Issue	Name	Date
Draft	1	Beth Ellison-Perrett BSc (Hons) MSc, MRSB, Consultant	18/10/2023
Final	2	Beth Ellison-Perrett BSc (Hons) MSc, MRSB, Consultant	23/10/2023

**Arbtech Consultant's Contact Details:**

Beth Ellison-Perrett BSc (Hons) MSc MRSB  
Consultant

**Tel:** 07874871277 **Email:** [bethep@arbtech.co.uk](mailto:bethep@arbtech.co.uk)

**Arbtech Consulting Ltd**

<https://arbtech.co.uk>

**Limitations and Copyright**

Arbtech Consulting Limited has prepared this report for the sole use of the above-named client or their agents in accordance with our General Terms and Conditions, under which our services are performed. It is expressly stated that no other warranty, expressed or implied, is made as to the professional advice included in this report or any other services provided by us. This report may not be relied upon by any other party without the prior and express written agreement of Arbtech Consulting Limited. The conclusions and recommendations contained in this report are based upon information provided by third parties. Information obtained from third parties has not been independently verified by Arbtech Consulting Limited.

© This report is the copyright of Arbtech Consulting Limited. Any unauthorised reproduction or usage by any person other than the addressee is strictly prohibited.

## Industry Guidelines and Standards

This report has been written with due consideration to:

- Chartered Institute of Ecology and Environmental Management (2017). Guidelines for Preliminary Ecological Appraisal. 2nd edition. Chartered Institute of Ecology and Environmental Management, Winchester.
- Chartered Institute of Ecology and Environmental Management (2018). Guidelines for Ecological Impact Assessment in the UK and Ireland: Terrestrial, Freshwater, Coastal and Marine. Version 1.1. Chartered Institute of Ecology and Environmental Management, Winchester.
- Chartered Institute of Ecology and Environmental Management (2017). Guidelines on Ecological Report Writing. Chartered Institute of Ecology and Environmental Management, Winchester.
- Chartered Institute of Ecology and Environmental Management (2020). Guidelines for Accessing, Using and Sharing Biodiversity Data in the UK. 2nd Edition. Chartered Institute of Ecology and Environmental Management, Winchester.
- British Standard 42020 (2013). Biodiversity – Code of Practice for Planning and Development.
- British Standard 8683:2021 (2021). Process for Designing and Implementing Biodiversity Net Gain.

## Proportionality

The work involved in preparing and implementing all ecological surveys, impact assessments and measures for avoidance, mitigation, compensation and enhancement should be proportionate to the predicted degree of risk to biodiversity and to the nature and scale of the proposed development. Consequently, the decision-maker should only request supporting information and conservation measures that are relevant, necessary and material to the application in question. Similarly, the decision-maker and their consultees should ensure that any comments and advice made over an application are also proportionate.

The desk studies and field surveys undertaken to provide a Preliminary Ecological Appraisal (PEA) might in some cases be all that is necessary.

(BS 42020, 2013)

## Executive Summary

Arbtech Consulting Limited was instructed by Colin Hulott to undertake a Preliminary Ecological Appraisal (PEA) at Northwood Cricket Club, Duckshill Road, HA6 2NP (hereafter referred to as “the site”). The survey was required to inform a planning application for the creation of a junior cricket pitch (hereafter referred to as “the proposed development”).

**The following is work you will need to commission to comply with planning policy and legislation. Further information, along with opportunities for biodiversity enhancement, are outlined in Table 6 of this report.**

Feature	Survey Results Summary	Impact Assessment	Recommendations
Habitats and flora	There are no notable habitats within the site, but five habitats are present within 2km of the site, the closest being deciduous woodland ~435m north. Habitats onsite comprise of modified grassland, dense scrub, treelined boundary and pond.	No impacts to any notable habitats are anticipated due to the small scale and distance of the proposed development from such habitats as well as the urban location of the site with surrounding physical barriers.	Retained trees should be protected in line with the measures outlined in the British Standard "Trees in Relation to Design, Demolition and Construction to Construction - Recommendations" (BS 5837) (2012).
Reptiles	Habitats recorded on site are assessed to provide foraging and commuting opportunities for reptiles in the form of grassland and scrub. The tree-lined boundaries could provide suitable places for reptiles to seek shelter but there aren't any habitats which reptiles could bask within. Reptiles are highly unlikely to be present within the development areas but the presence of reptiles within peripheral habitats cannot be discounted.	The loss of such habitats is likely to be inconsequential to local reptile populations owing to their low value and the presence of more extensive habitat locally. However, site clearance could result in the death or injury of reptiles, if present.	A precautionary working method will be implemented during construction.
Badger	Although no evidence indicating the presence of badgers was recorded during the site survey, the site does have connectivity to the wider landscape for badgers. As such, the future presence of badgers foraging and commuting for transient periods cannot be discounted.	The loss of such habitats is likely to be inconsequential to local badger populations owing to their low value and the presence of more extensive habitat locally. However, construction activities could result in the death or injury of badgers, if present.	A precautionary working method will be implemented during construction,

Hedgehog	Although there was no evidence of hedgehogs on the site. The site has suitable connectivity for the wider landscape. Therefore, the future presence of foraging and commuting hedgehogs for transient periods cannot be discounted.	The loss of such habitats is likely to be inconsequential to local hedgehog populations owing to their low value and the presence of more extensive habitat locally.	A precautionary working method will be implemented during construction.
----------	---	--	---

**Contents**

**1.0 Introduction and Context .....6**

1.1 Background ..... 6

1.2 Site Location and Landscape Context..... 6

1.3 Scope of the Report ..... 6

**2.0 Methodology.....7**

2.1 Desk Study ..... 7

2.2 Field Survey ..... 7

2.3 Limitations ..... 8

**3.0 Results and Evaluation .....9**

3.1 Designated Sites ..... 9

3.2 Field Survey Results ..... 9

**4.0 Conclusions, Impacts and Recommendations .....18**

**5.0 Bibliography.....26**

Appendix 1: Proposed Development Plan..... 29

Appendix 2: Site Location Plan ..... 30

Appendix 3a: Habitat Survey Plan ..... 31

Appendix 4: Legislation and Planning Policy ..... 32

## **1.0 Introduction and Context**

### ***1.1 Background***

Arbtech Consulting Limited was instructed by Colin Hulott to undertake a Preliminary Ecological Appraisal (PEA) at Northwood Cricket Club Duckshill Road HA6 2NP (hereafter referred to as “the site”). The survey was required to inform a planning application for creation of a junior cricket pitch (hereafter referred to as “the proposed development”).

A plan showing the proposed development will be provided in Appendix 1 when available.

The aim of the PEA was to obtain data on existing ecological conditions, and to conduct a preliminary assessment of the likely significance of ecological impacts on the proposed development. No previous ecology reports have been produced for this site by Arbtech Consulting Ltd or, to the author’s knowledge, by any other consultancy.

### ***1.2 Site Location and Landscape Context***

The site is located at National Grid Reference TQ 0791 9486 and has an area of approximately 0.8ha comprising hardstanding ground, modified grassland, hedgerow with trees, introduced scrub and an artificial pond. It is surrounded by Vernon village to the northwest and arable fields with Northwood Golf club to the southeast. The wider landscape comprises of scattered pockets of woodlands and arable field separated by hedgerows around boundaries. A site location plan is provided in Appendix 2.

### ***1.3 Scope of the Report***

This report describes the baseline ecological conditions at the site, evaluates habitats within the survey area in the context of the wider environment and describes the suitability of those habitats for notable or protected species. It identifies possible ecological constraints as a result of the proposed development and summarises the requirements for further surveys and mitigation measures to inform subsequent mitigation proposals, achieve planning or other statutory consent and to comply with wildlife legislation. To achieve this, the following steps have been taken:

- A desk study has been carried out.
- A field survey has been undertaken to record baseline information on the site and surrounding area including habitat types and their suitability for notable or protected species.
- Invasive plant and animal species (such as those listed on Schedule 9 of the Wildlife & Countryside Act) have been identified.
- Potential impacts on features of value, as a result of the proposed development, have been identified.
- Recommendations for further surveys and mitigation have been made.
- Opportunities for the enhancement of the site for biodiversity have been set out.

2.0 Methodology

2.1 Desk Study

The desk study included a review of the magic.gov.uk database for statutory designated sites within a 2km radius of the site. Landscape value and the presence of notable habitats as well as granted European Protected Species Licence (EPSL) and notable species records held on magic.gov.uk database has also been considered where these are within influencing distance of the site.

2.2 Field Survey

The survey was undertaken by Beth Ellison-Perrett BSc (Hons) MSc, MRSB, Consultant (2023-11066-CL17-BAT) on 11<sup>th</sup> October 2023.

An extended habitat survey was undertaken, following the methodology set out in The UK Habitat Classification Habitat Definitions Version 2.0 (The UK Habitat Classification Working Group, July 2023). All land parcels are described and mapped and, where appropriate, target notes provide supplementary information on habitat conditions, features too small to map to scale, species composition, structure and management. Botanical species lists were compiled with reference to the DAFOR scale (D = Dominant; A = Abundant, F = Frequent, O = Occasional, R = Rare).

For ease of reading, scientific names are omitted from this report for widespread, ubiquitous and well-known species. Scientific names are only included where deemed necessary in conveying correct information to the reader, for example where common names differ regionally or in specialised, notable, unusual or challenging taxa, or if there is any ambiguity in identification (e.g where a species can only be identified to genus level).

During the survey, habitats were assessed for their suitability to support protected species, and field signs indicating their presence recorded. The assessment takes into consideration the findings of the desk study, the habitat conditions on site and in the context of the surrounding landscape, and the ecology of the protected species.

Ponds on and adjacent to the site were assessed for their suitability to support great crested newts using the *Habitat Suitability Index (HSI) Assessment Methodology* (Oldham et al, 2000).

A visual inspection of the trees on the site was undertaken from ground level using binoculars and, where accessible and safe to do so, an internal inspection of any features which bats could use for roosting was completed using an endoscope, torch and ladders. Trees were categorised according to the likelihood of bats being present and the types of roost that the identified features could support. This is summarised in Table 1 below. Roost suitability is classified as high, moderate, low and negligible and dictates any further surveys required before works can proceed.

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

Classification	Feature of tree and its context
----------------	---------------------------------

Moderate to high (Difficult to separate moderate or high value trees from ground level without a close up inspection)	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 periods of time due to their size, shelter, protection, conditions and surrounding habitat.  Trees with high suitability could support roosts of high conservation value such as maternity or hibernation roosts.
Low	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 potential to be used sporadically by individual or small numbers of bats. Potential roost features may be suboptimal for reasons such as shallow depth, poor thermal qualities or upwards orientation with exposure to inclement weather or predators.
Negligible	Unsuitable for use by bats.

### **2.3 Limitations**

It should be noted that whilst every effort has been made to describe the baseline conditions within the survey area, and evaluate these features, this report does not provide a complete characterisation of the site. This assessment provides a preliminary view of the likelihood of protected species being present. This is based on suitability of the habitats on the site and in the wider landscape and the ecology and biology of species as currently understood.

No BRD was available at the time of writing this report and this should be obtained, and the report updated to enable a robust ecological impact assessment to be completed.

There was a limitation in the lack of access to the onsite pond due to shrub. These limitations have been taken into account during the evaluation of the site and requirement for further surveys and mitigation.



### 3.0 Results and Evaluation

#### 3.1 Designated Sites

Details of any statutory designated sites within a 2km radius of the site, including their reasons for notification, are provided in Table 2 below.

The site lies within the impact risk zone for Ruislip Woods Site of Scientific Interest. The proposed development type is not listed as a possible high risk with regard to this designation.

Table 2: Statutory designated sites within 2km radius of the site.

Designated site name	Distance from site	Reasons for notification from Natural England
Ruislip Woods Site of Scientific Interest (SSSI)	1.3km South-east	The woodland varies widely in structure, with parts supporting mature high forest and more extensive areas supporting hornbeam coppice with oak standards. A diverse range of oak and hornbeam woodland types occur, with large areas managed on a traditional coppice-with-standards system. The Ruislip Woods also support a diverse range of breeding birds characteristic of woodland habitat. These include tawny oak, all three British species of woodpecker: green, greater spotted and lesser spotted, willow tit, nuthatch and the less common woodcock and hawfinch.
Ruislip Woods national nature reserve	1.3km South-east	The nature research consists of a mosaic of woodland, open water and lowland grassland. Includes oak/hornbeam coppice woodland.

#### 3.2 Field Survey Results

The results of the field survey are illustrated in Appendix 3. The weather conditions recorded at the time of the survey are shown in Table 3.

Table 3: Weather conditions during the survey

Date:	11/10/2023
Temperature	19°C
Humidity	79%
Cloud Cover	100%
Wind	14 mph
Rain	None


#### Habitats and Flora



The following habitats are present within and adjacent to the site:

- Modified grassland (g4)
- Dense scrub (h3d)
- Build linear feature – fence (u1e 69)
- Treelined boundary (w1g6)
- Standing open water- pond (r1g 42)
- Developed land; sealed surface (u1b)

A description and photograph of each habitat is provided in Table 4.

*Table 4: Description and photographs of habitats within and adjacent to the site*

Habitat type	Habitat description	Photograph
Modified grassland	<p>A field of modified grassland, that is kept at a sward length of ~2cm. Species composition consists mainly of rye grass (D), creeping buttercup (A), chickweed (O), clover (O), broad-leaved dock (R), thistle (O), selfheal plantain (R), St john's wort (R). This area is of low ecological value due to the intensive management.</p> <p>There is a strip of approximately 10m wide which has been left unmown resulting in a sward length of ~5cm in length. The grassland has very little (&lt;5%) of bare ground and no bracken cover. Physical damage is evident in less than 5% of total grassland area.</p>	

Build linear feature	<p>There is a chain-link fence along all boundaries of the site, which will significantly reduce the ability for protected species especially badgers from gaining access to the site. However, this would not prevent reptiles or GCN from gaining access to the site, due to the type of fencing. In addition, there is a small fence line which run through the site, going east to west, which splits the area of bramble and the pond from the remaining area of the site.</p>	
Dense scrub	<p>There are a few areas of dense shrub on the site comprising of brambles (D) with a small area of introduced shrubs and saplings within the bramble. The main area of bramble is located to the south of the site, to the north of the pond. The shrubs and saplings include buckthorn (O), dog rose (O), dogwood (O), silver birch (O), willow (O) and hawthorn (O). Additionally, there is a small area of bramble scrub to the west of the site.</p>	

		
--	--	---



Tree lined  
boundary

The site is enclosed by a continuous tree line around the whole site. The tree line consists of willow (A), buckthorn (A), hawthorn (F), hazel (O), maple (O) and ash (R) with an understorey of bramble (R). The trees are in semi-mature to mature in age and represent a fair to good structural condition. The highest trees are approximately 10-12m tall. There is little to no evidence of an adverse impact on tree health by humans such as detrimental agricultural activity, herbicide or vandalism. There is no current regular pruning regime of the trees. Tree canopy is predominantly continuous with gaps in canopy cover making up <10% of total area and no individual gap being >5 m wide.



Standing open waters - pond	<p>There is one pond onsite which is manmade – indicated by the concrete edging. Around the pond was dominated by sweet flag, which faded into a mosaic of dense shrub which included bramble, dogrose, silver birch, willow, dogwood and hawthorn. This area has a medium ecological value. There was no suitable submergent vegetation which GCN could use to lay their eggs on. Additionally, there were ducks nesting within the rushes and using the pond at the time of the survey.</p>	
Developed land; sealed surface	<p>On the east boundary of the site, there is access through the tree line onto an area of hardstanding. The hardstanding is comprised of gravel and concrete and is of negligible habitat value.</p>	



**Fauna**

An assessment of the suitability of the site for protected or notable species is provided in Table 5.

*Table 5: Assessment of the suitability of the site for protected or notable species.*

Species	Assessment of suitability	Biological records data
Amphibians	Great crested newts exist in metapopulations and are known to utilise ponds and their connecting terrestrial habitat during their life cycle; great crested newts are typically found within terrestrial habitats up to 500m from breeding ponds (Langton <i>et al.</i> 2001). A review of aerial imagery indicates the presences of one pond within 500m of the site located 246m south-east. The pond is separated from the site by urban and agricultural infrastructure, including tarmac roads, buildings and extensive manged grassland with a short sward length. Therefore, these features are suboptimal for great crested newts due to the lack of refuge from predation. As a result, and given the distance of these ponds from the site, these landscape features are likely to represent a significant barrier to dispersal eliminating connectivity to the site for great crested newts. The landscape features are likely to create a significant barrier which prevent amphibians from gaining access to the site.	A review of the MAGIC database returned no granted EPSL, class licence or pond survey records for great crested newts within 500m of the site. However, there is one EPSL 1200m north for the destruction of GCN resting place.
Reptiles	Habitats recorded on site are assessed to provide foraging and commuting opportunities for reptiles in the form of grassland and scrub. The tree-lined boundaries could provide suitable places for reptiles to seek shelter but there aren't any habitats which reptiles could bask within. The development areas are considered unsuitable to support reptiles due to an absence of structural and species diversity. Reptiles are highly unlikely to be present within the development areas but the presence of reptiles within peripheral habitats cannot be discounted.	A review of the MAGIC database returned no EPSLs for reptiles within a 2km radius of the site.
Badgers	Habitats recorded on site are assessed to provide foraging and commuting opportunities for badgers in the form of grassland and a tree lined boundary. However, no evidence (e.g., latrines, snuffle holes, hairs and mammal trails) indicating the presence of badgers was recorded during the site survey and no	The MAGIC database does not hold records of badgers.

	badger setts are present on or adjacent to the site. Although no evidence indicating the presence of badgers was recorded during the site survey, the site does have connectivity to the wider landscape for badgers. As such, the future presence of badgers foraging and commuting for transient periods cannot be discounted.	
Bats	There were no buildings onsite, and the trees lacked suitable features for roosting bats. The tree line could be used for foraging and commuting. Additionally, the pond onsite could also be used by foraging bats.	A review of the MAGIC database returned 11 EPSLs for bats within a 2km radius of the site, involving common pipistrelles, soprano pipistrelles, brown long eared and leisler's bats. The closest EPSL was ~849m northwest of the site involving the destruction of a common pipistrelle resting place.
Hazel Dormouse	No evidence of dormice was found within the site. It is not anticipated that dormice are present on the site due to the lack of suitable habitats present. Furthermore, for isolated habitats in the UK, research indicates that dormice require 20ha of woodland habitat to support a viable population (Bright <i>et al.</i> 1994). There are no areas of woodland on or around the site that are big enough (20ha) to support a dormouse population.	A review of the MAGIC databased returned no granted EPSL for hazel dormice within a 2km radius of the site.
Hedgehog	Habitats recorded on site are assessed to provide foraging, commuting, and refuge opportunities for hedgehogs in the form of tree lined boundaries and grassland. However, no evidence indicating the presence of hedgehogs was recorded on site. Although no evidence indicating the presence of hedgehogs was recorded during the site survey, the site does have connectivity for the wider landscape for hedgehogs. As such, the future presence of hedgehogs foraging and commuting for transient periods cannot be discounted.	The MAGIC database does not hold records of hedgehogs.
Riparian Mammals	The site has no watercourses present or immediately adjacent to support otter or water vole populations.	A review of the MAGIC databased returned no granted EPSL records within 2km of the site.
Birds	Onsite habitat in the form of trees, scrub and hedgerows could provide abundant foraging and nesting habitats for birds. No birds' nests were found on site during the	The MAGIC database does not hold records of birds.



	survey. Despite the dense shrubs on site, the urban surroundings are likely to reduce the suitability for wintering and breeding birds.	
Invertebrates	The habitat onsite, including the grassland, hedgerows, and shrubs will all provide suitable habitat for common invertebrate assemblages.	The MAGIC database does not hold records of invertebrates.

#### 4.0 Conclusions, Impacts and Recommendations

Taking the desk study and field survey results into account, Table 6 presents an evaluation of the ecological value of the site and also details any ecological constraints identified in relation to the proposed development which will comprise summarise creation of a junior cricket pitch.

*Table 6: Evaluation of the site and any ecological constraints*

Feature	Survey Results Summary	Impact Assessment	Recommendations	Biodiversity Enhancement Opportunities <sup>1</sup>
Designated sites	<p>There are two statutory sites within 2km of the site, Ruislip Woods (SSSI) and Ruislip Woods (National Nature reserve) both of which are located 1.3km from the site.</p> <p>The presence of non-statutory designated sites within 2km of the site cannot be established without data from Greenspace information for Greater London CIC.</p>	No impacts to designated sites are anticipated due to the small scale and distance of the proposed development from such sites (where known) as well as the urban location of the site with surrounding physical barriers.	None.	None.
Habitats and flora	There are no notable habitats within the site,	No impacts to any notable habitats are anticipated due to the small scale and	Retained trees should be protected in line with the measures outlined in the British Standard	The following habitat creation and

<sup>1</sup> The Local Planning Authority has a duty to ask for enhancements under the NPPF (2021).

	<p>but five habitats are present within 2km of the site, the closest being deciduous woodland ~435m north.</p> <p>Habitats onsite comprise of modified grassland, dense scrub, treelined boundary and pond.</p>	distance of the proposed development from such habitats as well as the urban location of the site with surrounding physical barriers.	"Trees in Relation to Design, Demolition and Construction to Construction - Recommendations" (BS 5837) (2012).	<p>enhancement opportunities could be incorporated into the proposed development:</p> <ul style="list-style-type: none"> <li>• Native tree, hedgerow and shrub planting</li> </ul>
Amphibians	<p>A review of the MAGIC database returned no granted EPSL, class licence or pond survey records for great crested newts within 500m of the site. A review of the aerial imagery indicates the presence of one pond within 500m of the site located 246m south-east. The pond is separated from the site by urban and agricultural infrastructure, including tarmac roads,</p>	No impacts are anticipated on great crested newt, as a result of the proposed development as this species is considered to be absent from the site.	None	None.

	buildings and extensive managed grassland with a short sward length.			
Reptiles	Habitats recorded on site are assessed to provide foraging and commuting opportunities for reptiles in the form of grassland and scrub. The tree-lined boundaries could provide suitable places for reptiles to seek shelter but there aren't any habitats which reptiles could bask within. The development areas are considered unsuitable to support reptiles due to an absence of structural and species diversity. Reptiles are highly unlikely to be present within the development areas but the presence of reptiles within peripheral habitats cannot be discounted.	Modified grassland and a small area of the tree lined boundary will be removed during construction. The loss of such habitats is likely to be inconsequential to local reptile populations owing to their low value and the presence of more extensive habitat locally. However, site clearance could result in the death or injury of reptiles, if present.	A precautionary working method will be implemented during construction, including the following measures: <ul style="list-style-type: none"> <li>• Vegetation will be maintained at a short sward (5cm) to discourage reptiles.</li> <li>• Any excavations will be covered overnight, or a ramp will be installed to enable any trapped animals to escape.</li> <li>• Any chemicals or pollutants used or created by the development should be stored and disposed of correctly according to COSHH regulations.</li> <li>• In the unlikely event that a reptile is identified, works must cease and advice must be sought from a suitably qualified ecologist.</li> </ul>	The following habitat creation and enhancement opportunities could be incorporated into the proposed development which would be beneficial for reptiles: <ul style="list-style-type: none"> <li>• Creation of reptile refugia and hibernacula using debris and brash from site clearance.</li> <li>• Planting of native scrub and grassland to increase foraging opportunities.</li> </ul>

Roosting bats	The trees on the site have negligible value for roosting bats due to a lack of potential roost features.	Bats are very unlikely to be roosting on the site and as such, there are not anticipated to be any impacts on roosting bats.	In the unlikely event that a bat or evidence of bats is discovered during the development all work must stop and a bat licensed ecologist contacted for further advice.	<p>The installation of 2 bat boxes at the site will provide additional roosting habitat for bats.</p> <p>The bat boxes will be installed on the retained trees.</p> <p>Bat boxes should be positioned 3-5m above ground level facing in a south or south-westerly direction with a clear flight path to and from the entrance, away from artificial light.</p> <p>The bat box will be a specification suitable for crevice dwelling bats such as a general-purpose bat box or a similar alternative brand.</p>
Foraging and commuting bats	Tree lined boundaries could be used by local bat populations for foraging and commuting. These	The proposed development will not result in the removal of any habitats which could be used by foraging or commuting bats.	None.	None.

	could also be used by bats dispersing from nearby roosts outside of the site.			
Badger	Although no evidence indicating the presence of badgers was recorded during the site survey, the site does have connectivity to the wider landscape for badgers. As such, the future presence of badgers foraging and commuting for transient periods cannot be discounted.	Modified grassland and a small area of the tree lined boundary will be removed during construction. The loss of such habitats is likely to be inconsequential to local badger populations owing to their low value and the presence of more extensive habitat locally. However, construction activities could result in the death or injury of badgers, if present.	A precautionary working method will be implemented during construction, including the following measures: <ul style="list-style-type: none"> <li>Any excavations will be covered overnight, or a ramp will be installed to enable any trapped animals to escape.</li> <li>The use of night-time lighting will be avoided, or sensitive lighting design will be implemented to avoid light spill on to retained habitats which badgers could use.</li> <li>Any chemicals or pollutants used or created by the development should be stored and disposed of correctly according to COSHH regulations.</li> <li>In the unlikely event that a badger sett is identified, works must cease and advice must be sought from a suitably qualified ecologist.</li> </ul>	None.
Hazel dormouse	No evidence of dormice was found within the site. It is not anticipated that dormice are present on the site due to the lack of	No impacts are anticipated on hazel dormice as a result of the proposed development.	None.	None.

	suitable of the habitats present.			
Hedgehog	Although there was no evidence of hedgehogs on the site. The site has suitable connectivity for the wider landscape. Therefore, the future presence of foraging and commuting hedgehogs for transient periods cannot be discounted.	Modified grassland will be removed during construction. The loss of such habitats is likely to be inconsequential to local hedgehog populations owing to their low value and the presence of more extensive habitat locally. However, construction activities could result in the death or injury of hedgehogs, if present.	<p>A precautionary working method will be implemented during construction, including the following measures:</p> <ul style="list-style-type: none"> <li>• Vegetation should be kept at a short sward (5cm) to discourage hedgehogs.</li> <li>• Any excavations will be covered overnight, or a ramp will be installed to enable any trapped animals to escape.</li> <li>• The use of night-time lighting will be avoided, or sensitive lighting design will be implemented to avoid light spill on to retained habitats which hedgehogs could use.</li> <li>• Any chemicals or pollutants used or created by the development should be stored and disposed of correctly according to COSHH regulations.</li> <li>• If any hedgehogs are found in the working area these should be allowed to disperse of their own accord or, if at immediate risk, should be moved by hand to a sheltered, vegetated area away from disturbance.</li> </ul>	<p>The following habitat creation and enhancement opportunities could be incorporated into the proposed development which would be beneficial for hedgehogs:</p> <ul style="list-style-type: none"> <li>• Planting fruit bearing trees and species-rich grassland to increase foraging opportunities.</li> <li>• Creation of brash piles or installation of hedgehog houses in shady areas.</li> </ul>
Riparian Mammals	The site has no watercourses present or immediately adjacent to	No impacts are anticipated on otters as a result of the proposed development.	None.	None.

	support otter or water vole populations.			
Birds	Onsite habitat in the form of trees, scrub and hedgerows could provide abundant foraging and nesting habitats for birds. No birds' nests were found on site during the survey.	No impacts are anticipated on nesting birds as a result of the proposed development.	None.	<p>The installation of one bird box at the site will provide additional nesting habitat for birds.</p> <p>The bird box will be installed on a retained tree.</p> <p>General purpose bird boxes should be positioned 3m above ground level where they will be sheltered from prevailing wind, rain and strong sunlight.</p> <p>Species-specific bird boxes should be installed in line with manufacturers specifications.</p>
Invertebrates	The habitat onsite, is for common invertebrate.	No impacts are anticipated on notable species or populations of invertebrates as a result of the proposed development.	None.	The following habitat creation and enhancement opportunities could be incorporated into the



				<div>proposed development to provide additional opportunities for invertebrates on site:</div> <ul style="list-style-type: none"><li>• beetle banks</li><li>• dead wood piles</li><li>• floral borders</li></ul>
--	--	--	--	--

## 5.0 Bibliography

- Biggs, J., Ewald, N., Valentini, A., Gaboriaud, C., Dejean, T., Griffiths, R., Foster, J., Wilkinson, J., Arnell, A., Brotherton, P., Williams, P. and Dunn, F. (2014). Using eDNA to Develop a National Citizen Science-based Monitoring Programme for the Great Crested Newt (*Triturus cristatus*). Biological Conservation. 183. 10.1016/j.biocon.2014.11.029.
- Bright, P., Morris, P., Mitchell-Jones, T. and Wroot, S. (2006). The Dormouse Conservation Handbook Second Edition.
- British Standard 42020 (2013). Biodiversity – Code of Practice for Planning and Development.
- British Standard 8683:2021 (2021). Process for Designing and Implementing Biodiversity Net Gain.
- Chanin, P. (2003). Ecology of the European Otter. Conserving Natura 2000 Rivers Ecology Series No. 10. Natural England, Peterborough.
- Chartered Institute of Ecology and Environmental Management (2017). Guidelines for Preliminary Ecological Appraisal. 2nd edition. Chartered Institute of Ecology and Environmental Management, Winchester.
- Chartered Institute of Ecology and Environmental Management (2017). Guidelines on Ecological Report Writing. Chartered Institute of Ecology and Environmental Management, Winchester.
- Chartered Institute of Ecology and Environmental Management (2018). Guidelines for Ecological Impact Assessment in the UK and Ireland: Terrestrial, Freshwater, Coastal and Marine. Version 1.1. Chartered Institute of Ecology and Environmental Management, Winchester.
- Chartered Institute of Ecology and Environmental Management (2020). Guidelines for Accessing, Using and Sharing Biodiversity Data in the UK. 2nd Edition. Chartered Institute of Ecology and Environmental Management, Winchester.
- Collins, J. (2016). Bat Surveys for Professional Ecologists —Good Practice Guidelines, 3<sup>rd</sup> edition, Bat Conservation Trust, London.
- Defra (2007). Hedgerow Survey Handbook. A Standard Procedure for Local Surveys in the UK. Defra, London.
- Edgar, P., Foster, J. and Baker, J (2010). Reptile Habitat Management Handbook. Amphibian and Reptile Conservation, Bournemouth  
<http://downloads.gigil.org.uk/website/Reptile%20Habitat%20Management%20Handbook.pdf>
- Garland, L. & Markham, S. (2008) Is Important Bat Foraging and Commuting Habitat Legally Protected?  
<http://biodiversitybydesign.co.uk/cmsAdmin/uploads/protection-for-bat-habitat-sep-2007.pdf>
- Gent, T. and Gibson, S. (2003). Herpetofauna Workers' Manual. JNCC, Peterborough.
- Gilbert, G., Gibbons, D.W., and Evans, J. (1998) Bird Monitoring Methods: A Manual of Techniques for UK Key Species. The Royal Society for the protection of Birds, Sandy, Bedfordshire, England.
- Google Earth. Accessed on 15/10/2023.

- Harris, S., Cresswell, P. and Jefferies, D.J. (1989). Surveying badgers. Mammal Society, London.
- HMSO: Conservation of Habitats and Species (Amendment) (EU Exit) Regulations 2019 <https://www.legislation.gov.uk/ukxi/2019/579/contents/made>
- HMSO: Countryside & Rights of Way Act (2000) <http://jncc.defra.gov.uk/page-1378>
- HMSO: Natural Environmental and Rural Communities Act (2006) <http://www.legislation.gov.uk/ukpga/2006/16/contents>
- HMSO: The Protection of Badgers Act 1992 (as amended) <http://www.legislation.gov.uk/ukpga/1992/51/contents>
- HMSO: Wildlife and Countryside Act 1981 (as amended 01.04.1996) <http://jncc.defra.gov.uk/page-1377>
- Institution of Lighting Professionals (2018). Guidance Note 08/18 Bats and Artificial Lighting in the UK. Bats and the Built Environment Series Publication: [http://www.bats.org.uk/news.php/406/new\\_guidance\\_on\\_bats\\_and\\_lighting](http://www.bats.org.uk/news.php/406/new_guidance_on_bats_and_lighting).
- JNCC (2004). Bat Workers Manual, 3rd Edition. <http://jncc.defra.gov.uk/page-2861>
- Joint Nature Conservation Committee (2010). Handbook for Phase 1 habitat survey a technique for environmental audit. [http://jncc.defra.gov.uk/PDF/pub10\\_handbookforphase1habitatsurvey.pdf](http://jncc.defra.gov.uk/PDF/pub10_handbookforphase1habitatsurvey.pdf)
- Langton, T., Beckett, C. and Foster, J (2001). Great Crested Newt Conservation Handbook. Froglife. Suffolk. [http://www.froglife.org/wp-content/uploads/2013/06/GCN-Conservation-Handbook\\_compressed.pdf](http://www.froglife.org/wp-content/uploads/2013/06/GCN-Conservation-Handbook_compressed.pdf)
- Magic Database. <http://www.magic.gov.uk/MagicMap.aspx> Accessed on 15/10/2023.
- Mitchell-Jones, A.J. (2004). Bat Mitigation Guidelines. English Nature, Peterborough.
- National Planning Policy Framework (2021). <https://www.gov.uk/government/publications/national-planning-policy-framework--2>
- Natural England Designated Sites View. <https://designatedsites.naturalengland.org.uk/SiteSearch.aspx> Accessed on 15/10/2023.
- Natural England (2005). Organising Surveys to Determine Site Quality for Invertebrates: A Framework Guide for Ecologists. Natural England, Peterborough.
- Natural England (2007). Badgers and Development a Guide to Best Practice and Licensing. Natural England. Bristol. <http://www.wildlifeco.co.uk/wp-content/uploads/2014/03/badgers-and-development.pdf>
- Oldham R.S., Keeble J., Swan M.J.S. and Jeffcote M. (2000). Evaluating the Suitability of Habitat for the Great Crested Newt (*Triturus cristatus*). Herpetological Journal 10(4), 143-155. <https://www.thebhs.org/publications/the-herpetological-journal/volume-10-number-4-october-2000/1617-03-evaluating-the-suitability-of-habitat-for-the-great-crested-newt-triturus-cristatus/file>
- Panks, S., White., N., Newsome, A., Potter, J., Heydon, M., Mayhew, E., Alvarez, M., Russell, T., Scott, S.J., Heaver, M., Scott, S.H., Treweek, J., Butcher, B. and Stone, D. (2021). Biodiversity Metric 3.0: Auditing and Accounting for Biodiversity – Technical Supplement. Natural England.

- Stanbury, A., Eaton, M., Aebischer, N., Balmer, D., Brown, A., Douse, A., Lindley, P., McCulloch, N., Noble, D., and Win I. 2021. The status of our bird populations: the fifth Birds of Conservation Concern in the United Kingdom, Channel Islands and Isle of Man and second IUCN Red List assessment of extinction risk for Great Britain. *British Birds* 114: 723-747.
- Strachan, R., Moorhouse, T. and Gelling, M. (2011). *Water Vole Conservation Handbook*. Third Edition. Wildlife Conservation Research Unit, Oxford.
- The UK Habitat Classification Habitat Definitions Version 2.0 (The UK Habitat Classification Working Group, July 2023)
- Wray, S., Wells, D., Long, E. and Mitchell-Jones, T (2010). Valuing Bats in Ecological Impact Assessment. *IEEM In-Practice*. Number 70 (December 2010). Pp. 23-25.

Appendix 1: Proposed Development Plan

Perimeter Fencing

- Net World Sports - Buckwired semi-permanent 'Stop That Ball' - Ball Stop Net & 10.0m (33.0 ft) Posts to the entirety of the perimeter as indicated on the adjacent Plan, comprising:
  - Semi-permanent Stop That Ball™ System comes with removable ground sockets;
  - System is a maximum 12ft (3.7m) tall once in the ground;
  - 32mm diameter poles are made from 1.2mm thick galvanneal steel;
  - Ground sockets measure 450mm long and are manufactured from extremely durable steel;
  - Poles feature a scratch-resistant, black powder coating for protection against rust;
  - Black netting made from 2mm HDPE fabric;
  - 48mm knotted mesh netting is UV stabilised for outdoor use;
  - Netting features a knotted design and is specially bonded for added strength, allowing it to withstand maximum impact;
  - 6mm border rope is fully edged for increased strength and fray protection.

Fullest anticipated extent indicated on the proposed plan

- Boundary A fencing to the East to be maximum 10.0m high fence;
- Boundary B fencing to the South to be maximum 10.0m high fence;
- Boundary C fencing to the West to be maximum 10.0m high fence;
- Boundary D fencing to the North to be maximum 10.0m high fence.

Gabions - To Attenuation Pond

Ground level beneath gabions generally excavated to not less than 600mm below lowest intended ground level (with straight, right sides) and with all base areas consolidated (areas adjacent/bounding pond - base & substrate to be agreed with Structural Engineer/Building Control Inspector prior to installation).  
Circum 1000mm x 1000mm gabions (of 5mm galvanized steel) positioned on consolidated base and helical wired together both horizontally and vertically.  
Gabions filled with appropriate interlocking stones measuring 75mm - 150mm, preferably laid in horizontal courses.  
Where multiple gabion height is required gabions to be helical wired tied together both horizontally and vertically.

Fullest anticipated extent as indicated on the proposed plan

Subject to Structural Engineer design

Landscaping

Refer to adjacent ground levels indicated on the proposed plan. Defer to Arboricultural Report in all other respects.

Existing concrete vehicular/parking hardstanding adjacent to the northern boundary of Jubilee Field to be entirely removed and the fullest extent of the existing area to be prepared and replaced with commercial traffic grade 'GrassTrac' or similar.

Dedicated Colts Changing Rooms

Normally detached structure erected off traditional deep strip foundations remote from tree line to Str Eng design & agreed with Building Control Inspector.  
Construction and exterior treatment to Dedicated Colts Changing Rooms, defer to Draw 20220617 PL03 RevC - external treatment to match materials of the existing pavilion.  
All main services for the Dedicated Colts Changing Rooms drawn from the main pavilion (exact arrangement and configuration to be confirmed).

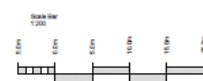
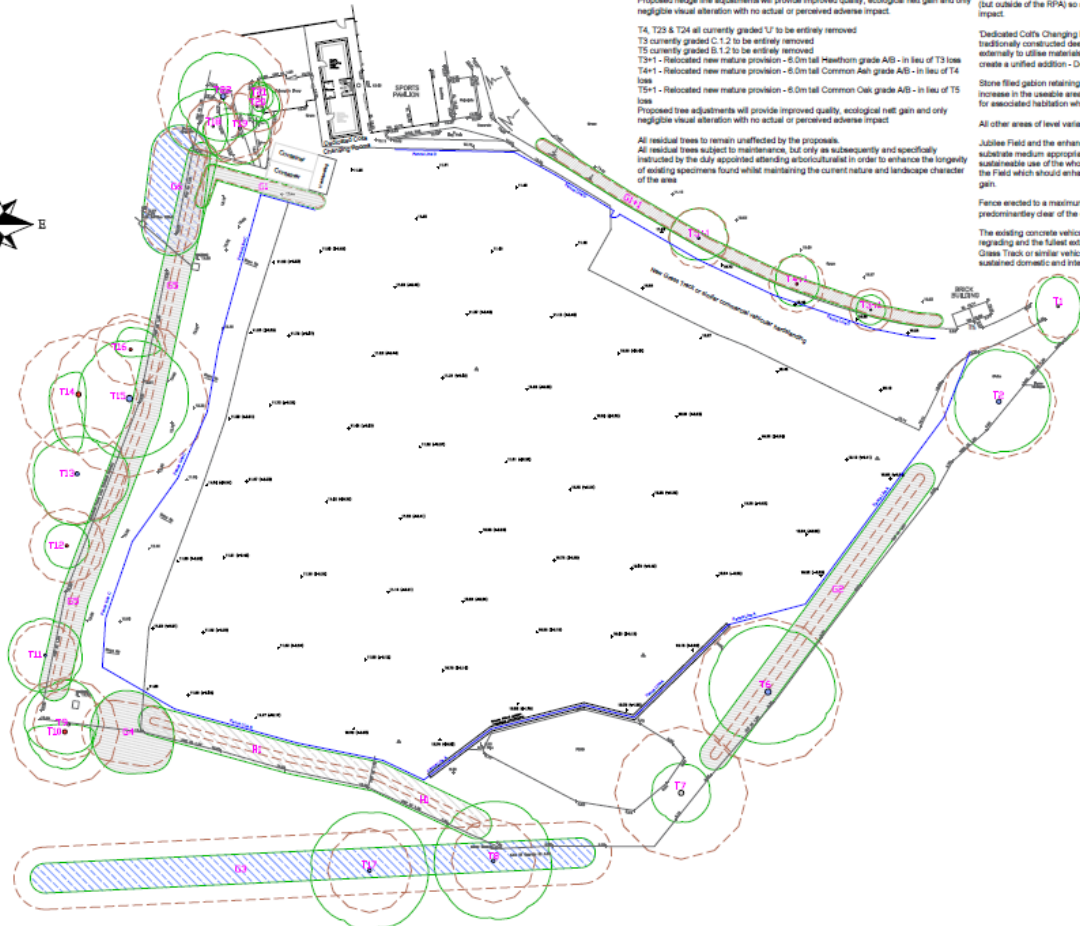
Arboricultural Proposals

Hedge Line G11 shortened as indicated (redundant area entirely removed).  
Hedge Line G11+1 - New variegated provision to match the nature of the existing. Proposed hedge line adjustments will provide improved quality, ecological net gain and only negligible visual alteration with no actual or perceived adverse impact.  
T4, T23 & T24 all currently graded T7 to be entirely removed  
T3 currently graded C.1.2 to be entirely removed  
T5 currently graded B.1.2 to be entirely removed  
T3+1 - Relocated new mature provision - 6.0m tall Headhorn grade A60 - in lieu of T3 loss  
T4+1 - Relocated new mature provision - 6.0m tall Common Ash grade A60 - in lieu of T4 loss  
T5+1 - Relocated new mature provision - 6.0m tall Common Oak grade A60 - in lieu of T5 loss  
Proposed tree adjustments will provide improved quality, ecological net gain and only negligible visual alteration with no actual or perceived adverse impact.  
All residual trees to remain unaffected by the proposals.  
All residual trees subject to maintenance, but only as subsequently and specifically instructed by the duly appointed attending arboriculturalist in order to enhance the longevity of existing specimens found whilst maintaining the current nature and landscape character of the area.

Structural Proposals

Existing painted metal containers relocated (as indicated) being largely screened by the retained portion of hedge G1. Containers supported on Ground Screws (but outside of the RPA) so as to minimise any actual or perceived environmental impact.  
Dedicated Colts Changing Rooms annexed to the existing pavilion, erected off traditionally constructed deep strip foundations (remote from the RPA) and externally to utilise materials to match the existing pavilion structure so as to create a unified addition - Defer to Draw 20220617 PL3 RevC.  
Stone filled gabion retaining structure to attenuation pond area only to achieve an increase in the usable area of Jubilee Field whilst also providing the potential for associated habitation which offers an ecological net gain.  
All other areas of level variation to be graded/sloped back to achieve uniformity.  
Jubilee Field and the enhanced area to be regraded (to levels indicated) with substrate medium appropriate to enhance drainage, to provide a more sustainable use of the whole area in order to prevent intermittent saturation of the Field which should enhance vegetation growth and offer an ecological net gain.  
Fence erected to a maximum height of 10.0m along the lines indicated, predominantly clear of the enclosing/surrounding tree/hedge canopy.  
The existing concrete vehicular hardstanding entirely removed including regrading and the fullest extent of the existing outlined area provided with a Grass Track or similar vehicular hardstanding sufficient to accommodate sustained domestic and intermittent commercial use.

Proposed Development, Topographical & Arboricultural Plan  
Scale 1:100



Northwood Cricket Club  
Intended Reuse of Jubilee Field to Create Dedicated Colts Ground

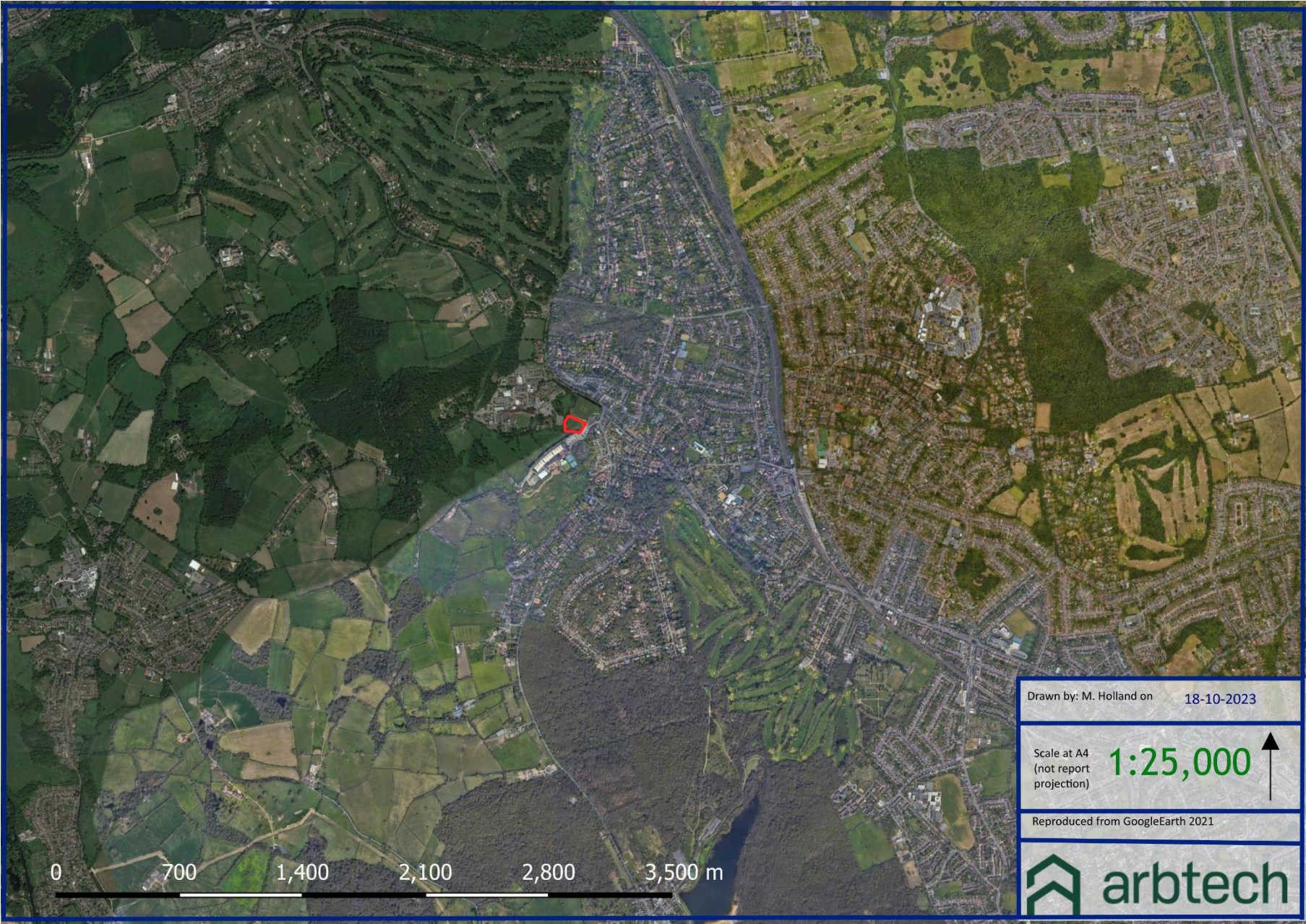
Scale 1:200 @ A0  
Date Aug25  
Author CHM

Revised	By	Date
A	Arboricultural	20220617
B	Structural	20220617
C	Topographical	20220617
D	Arboricultural	20220617

20220617 PL02

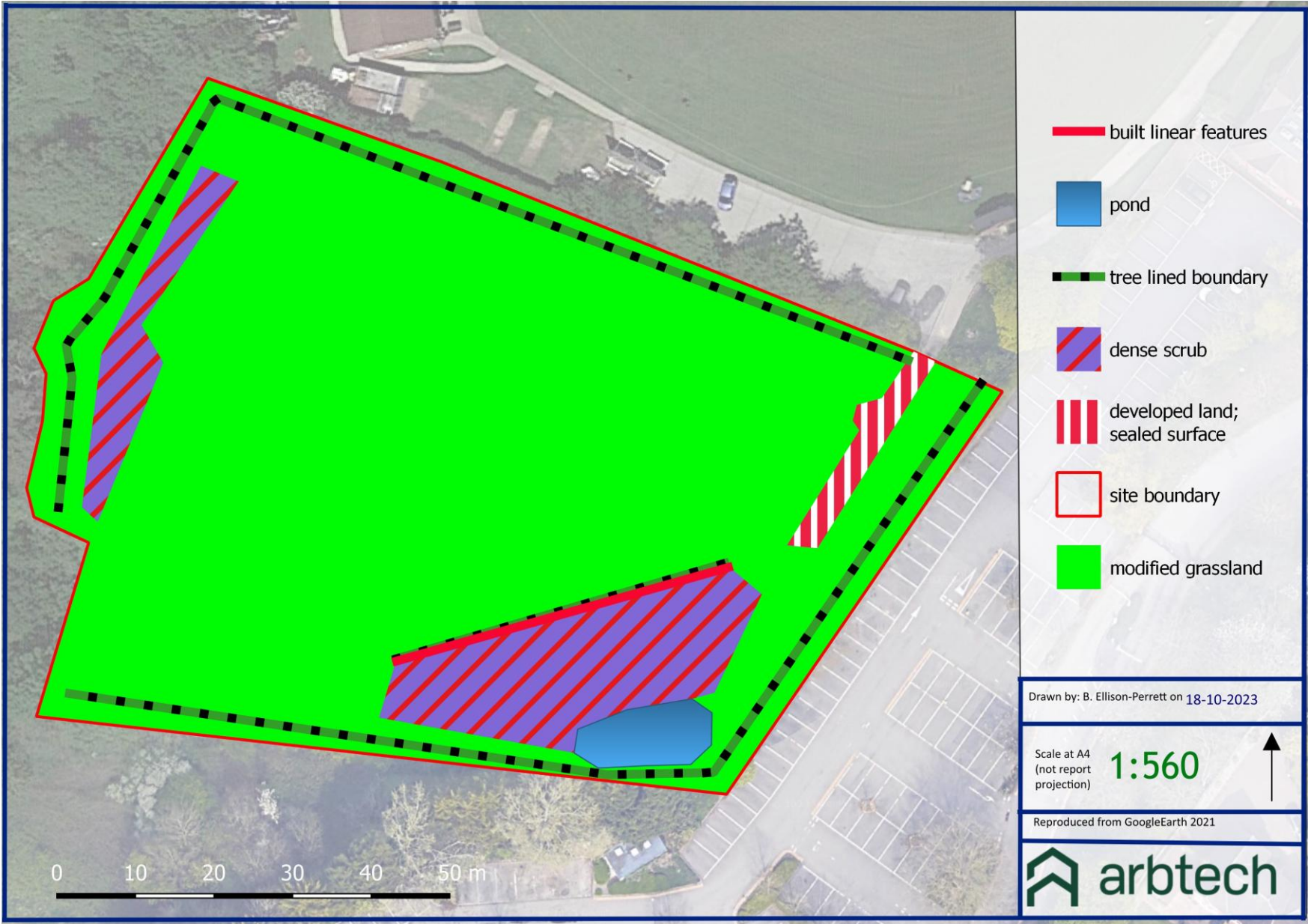


Appendix 2: Site Location Plan





Appendix 3a: Habitat Survey Plan



## Appendix 4: Legislation and Planning Policy

### LEGAL PROTECTION

#### National and European Legislation Afforded to Habitats

##### ***International Statutory Designations***

Special Areas of Conservation (SACs) and Special Protection Areas (SPAs) are sites of European importance and are designated under the EC Habitats Directive 92/43/EEC on the Conservation of natural habitats and of wild fauna and flora (the Habitats Directive) and the EC Birds Directive 2009/147/EC on the conservation of wild birds (the Wild Birds Directive) respectively. Both form part of the wider Natura 2000 network across Europe.

Under the Habitats Directive Article 3 requires the establishment of a network of important conservation sites (SACs) across Europe. Over 1000 animal and plant species, as well as 200 habitat types, listed in the directive's annexes are protected in various ways:

**Annex II species** (about 900): core areas of their habitat are designated as Sites of Community importance (SCIs) and included in the Natura 2000 network. These sites must be managed in accordance with the ecological needs of the species.

**Annex IV species** (over 400, including many Annex II species): a strict protection regime must be applied across their entire natural range, both within and outside Natura 2000 sites.

**Annex V species** (over 90): their exploitation and taking in the wild is compatible with maintaining them in a favourable conservation status.

SPAs are classified under Article 2 of the Directive 2009/147/EC of the European Parliament and of the Council of 30 November 2009 on the conservation of wild birds both for rare bird species (as listed on Annex I) and for important migratory species.

The Conservation of Habitats and Species Regulations 2017 (as amended) form the legal basis for the implementation of the Habitats and Birds Directives in terrestrial areas and territorial waters out to 12 nautical miles in England and Wales (including the inshore marine area) and to a limited extent in Scotland and Northern Ireland.

Ramsar sites are designated under the Convention on Wetlands of International Importance, agreed in Ramsar, Iran, in 1971. The Convention covers all aspects of wetland conservation and recognises the importance of wetland ecosystems in relation to global biodiversity conservation. The Convention refers to wetlands as “*areas of marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, including areas of marine water the depth of which at low tide does not exceed six metres*”. However, they may also include riparian and coastal zones. Ramsar sites are statutorily protected under the Wildlife & Countryside Act 1981 (as amended 01.04.1996) with further protection provided by the Countryside and Rights of Way (CROW) Act 2000. Policy statements have been issued by the Government in England and Wales highlighting the special status of Ramsar sites. The Government in England and Wales has issued policy statements which ensure that Ramsar sites are afforded the same protection as areas designated under the EC Birds and Habitats Directives as part of the Natura 2000 network (e.g. SACs & SPAs). Further provisions for the protection and management of SSSIs have been introduced by the Nature Conservation (Scotland) Act 2004.



***National Statutory Designations***

Sites of Special Scientific Interest (SSSI) are designated by nature conservation agencies in order to conserve key flora, fauna, geological or physio-geographical features within the UK. The original designations were under the National Parks and Access to the Countryside Act 1949 but SSSIs were then re-designated under the Wildlife & Countryside Act 1981 (as amended). As well as reinforcing other national designations (including National Nature Reserves), the system also provides statutory protection for terrestrial and coastal sites which are important within the European Natura 2000 network and globally.

***Local Statutory Designations***

Local authorities in consultation with the relevant nature conservation agency can declare Local Nature Reserves (LNRs) under the National Parks and Access to the Countryside Act 1949. LNRs are designated for flora, fauna or geological interest and are managed locally to retain these features and provide research, education and recreational opportunities.

***Non- Statutory Designations***

All non-statutorily designated sites are referred to as Local Wildlife Sites (LWS) and can be designated by the local authority for supporting local conservation interest. Combined with statutory designation, these sites are considered within Local Development Frameworks under the Town and Country Planning system and are a material consideration during the determination of planning applications. The protection afforded to these sites varies depending on the local authority involved.

Regionally Important Geological Sites (RIGs) are the most important geological and geomorphological areas outside of statutory designations. These sites are also a material consideration during the determination of planning applications.

**The Hedgerow Regulations 1997**

The Hedgerow Regulations 1997 are designed to protect 'important' countryside hedgerows. Importance is defined by whether the hedgerow (a) has existed for 30 years or more; or (b) satisfies at least one of the criteria listed in Part II of Schedule 1 of the Regulations.

Under the Regulations, it is against the law to remove or destroy hedgerows on or adjacent to common land, village greens, SSSIs (including all terrestrial SACs, NNRs and SPAs), LNRs, land used for agriculture or forestry and land used for the keeping or breeding of horses, ponies or donkeys without the permission of the local authority. Hedgerows 'within or marking the boundary of the curtilage of a dwelling-house' are excluded.

**National and European Legislation Afforded to Species*****The Conservation of Habitats and Species Regulations 2017 (as amended)***

The Conservation of Habitats and Species Regulations 2017 (as amended) aims to promote the maintenance of biodiversity by requiring the Secretary of State to take measures to maintain or restore wild species listed within the Regulations at a favourable conservation status.

The Regulations make it an offence (subject to exceptions) to deliberately capture, kill, disturb, or trade in the animals listed in Schedule 2, or pick, collect, cut, uproot, destroy, or trade in the plants listed in Schedule 4. However, these actions can be made lawful through the granting of licenses by the appropriate authorities. Licenses may be granted for a number of purposes (such as science and education, conservation, preserving public health and safety), but only after the appropriate authority is satisfied that there are no satisfactory alternatives and that such actions will have no detrimental effect on wild population of the species concerned.

### ***The Wildlife and Countryside Act (WCA) 1981 (as amended)***

The Wildlife and Countryside Act (WCA) 1981 (as amended) implements the Convention on the Conservation of European Wildlife and Natural Habitats (Bern Convention 1979, implemented 1982) and implements the species protection requirements of EC Birds Directive 2009/147/EC on the conservation of wild birds in Great Britain (the birds Directive). The WCA 1981 has been subject to a number of amendments, the most important of which are through the Countryside and Rights of Way (CROW) Act (2000).

Other legislative Acts affording protection to wildlife and their habitats include:

- Deer Act 1991
- Natural Environment & Rural Communities (NERC) Act 2006
- Protection of Badgers Act 1992
- Wild Mammals (Protection) Act 1996

### ***Badgers***

Badgers *Meles meles* are protected under The Protection of Badgers Act 1992 which makes it an offence to:

- Wilfully kill, injure, take, or attempt to kill, injure or take a badger
- Cruelly ill-treat a badger, including use of tongs and digging
- Possess or control a dead badger or any part thereof
- Intentionally or recklessly damage, destroy or obstruct access to a badger sett or any part thereof
- Intentionally or recklessly disturb a badger when it is occupying a badger sett
- Intentionally or recklessly cause a dog to enter a badger sett

- Sell or offers for sale, possesses or has under his control, a live badger

### **EFFECT OF LEGISLATION AND POLICY ON DEVELOPMENT WORKS**

A development licence will be required from the relevant countryside agency (i.e. Natural England) for any development works likely to affect an active badger sett, or to disturb badgers whilst they occupy a sett. Guidance has been issued by the countryside agencies to define what would constitute a licensable activity. It is no possible to obtain a licence to translocate badgers.

### ***Birds***

With certain exceptions, all birds, their nests and eggs are protected under Sections 1-8 of the WCA. Among other things, this makes it an offence to:

- Intentionally kill, injure or take any wild bird
- Intentionally take, damage or destroy the nest of any wild bird while it is in use or being built
- Intentionally take or destroy an egg of any wild bird
- Sell, offer or expose for sale, have in his possession or transport for the purpose of sale any wild bird (dead or alive) or bird egg or part thereof.

Certain species of bird, for example the barn owl, bittern and kingfisher receive additional protection under Schedule 1 of the WCA and are commonly referred to as “Schedule 1” birds.

This affords them protection against:

- Intentional or reckless disturbance while it is building a nest or is in, on or near a nest containing eggs or young
- Intentional or reckless disturbance of dependent young of such a bird

### **EFFECT OF LEGISLATION AND POLICY ON DEVELOPMENT WORKS**

Works should be planned to avoid the possibility of killing or injuring any wild bird or damaging or destroying their nests. The most effective way to reduce the likelihood of nest destruction in particular is to undertake work outside the main bird nesting season which typically runs from March to August. Where this is not feasible, it will be necessary to have any areas of suitable habitat thoroughly checked for nests prior to vegetation clearance.

Schedule 1 birds are additionally protected against disturbance during the nesting season. Thus, it will be necessary to ensure that no potentially disturbing works are undertaken in the vicinity of the nest. The most effective way to avoid disturbance is to postpone works until the young have fledged. If this is not feasible, it may be possible to maintain an appropriate buffer zone or standoff around the nest.

***Amphibians and Reptiles***

The sand lizard *Lacerta agilis*, smooth snake *Coronella austriaca*, natterjack toad *Epidalea calamita*, pool frog *Pelophylax lessonae* and great crested newt *Triturus cristatus* receive full protection under Habitats Regulations through their inclusion on Schedule 2. Regulation 41 prohibits:

- Deliberate killing, injuring or capturing of Schedule 2 species
- Deliberate disturbance of species in such a way as:
  - To impair their ability to survive, breed, or reproduce, or to rear or nurture young;
  - To impair their ability to hibernate or migrate
  - To affect significantly the local distribution or abundance of the species
- Damage or destruction of a breeding site or resting place

With the exception of the pool frog, these species are also listed on Schedule 5 of the WCA and 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.

Other native species of reptiles are protected solely under Schedule 5, Section 9(1) & (5) of the WCA, i.e. the adder *Vipera berus*, grass snake *Natrix natrix*, common lizard *Zootoca vivipara* and slow-worm *Anguis fragilis*. It is prohibited to:

- Intentionally or recklessly kill or injure these species.

**EFFECT OF LEGISLATION AND POLICY ON DEVELOPMENT WORKS**

A European Protected Species Licence (EPSL) issued by the relevant countryside agency (i.e. Natural England) will be required for works likely to affect the breeding sites or resting places amphibian and reptile species protected under Habitats Regulations. A licence will also be required for operations liable 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 licences are to allow derogation from the relevant legislation, but also to enable appropriate mitigation measures to be put in place and their efficacy to be monitored.

Although not licensable, appropriate mitigation measures may also be required to prevent the intentional killing or injury of adder, grass snake, common lizard and slow worm, thus avoiding contravention of the WCA.

**Water Voles**

The water vole *Arvicola terrestris* is fully protected under Schedule 5 of the WCA. This makes it an offence to:

- Intentionally kill, injure or take (capture) water voles
- Intentionally or recklessly damage, destroy or obstruct access to any structure or place used for shelter or protection
- Intentionally or recklessly disturb water voles while they are occupying a structure or place used for shelter or protection

**EFFECT OF LEGISLATION AND POLICY ON DEVELOPMENT WORKS**

If development works are likely to affect habitats known to support water voles, the relevant countryside agency (i.e. Natural England) must be consulted. It must be shown that means by which the proposal can be re-designed to avoid contravening the legislation have been fully explored e.g. the use of alternative sites, appropriate timing of works to avoid times of the year in which water voles are most vulnerable, and measures to ensure minimal habitat loss. Conservation licences for the capture and translocation of water voles may be issued by the relevant countryside agency for the purpose of development activities if it can be shown that the activity has been properly planned and executed and thereby contributes to the conservation of the population. The licence will then only be granted to a suitably experienced person if it can be shown that adequate surveys have been undertaken to inform appropriate mitigation measures. Identification and preparation of a suitable receptor site will be necessary prior to the commencement of works.

**Otters**

Otters *Lutra lutra* are fully protected under the Conservation Regulations through their inclusion on Schedule 2. Regulation 41 prohibits:

- Deliberate killing, injuring or capturing of Schedule 2 species
- Deliberate disturbance of species in such a way as:
  - To impair their ability to survive, breed, or reproduce, or to rear or nurture young;
  - To impair their ability to hibernate or migrate
  - To affect significantly the local distribution or abundance of the species
- Damage or destruction of a breeding site or resting place

Otters are also currently protected under the WCA 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

**EFFECT OF LEGISLATION AND POLICY ON DEVELOPMENT WORKS**

A European Protected Species Licence (EPSL) issued by the relevant countryside agency (i.e. Natural England) will be required for works likely to affect otter breeding or resting places (often referred to as holts, couches or dens) or for operations likely to result in a level of disturbance which might impair their ability to undertake those activities mentioned above (e.g. survive, breed, and rear young). The licence is to allow derogation from the relevant legislation but also to enable appropriate mitigation measures to be put in place and their efficacy to be monitored

**Bats**

All species are fully protected by Habitats Regulations 2010 as they are listed on Schedule 2. Regulation 41 prohibits:

- Deliberate killing, injuring or capturing of Schedule 2 species (e.g. All bats)
- Deliberate disturbance of bat species in such a way as:
  - To impair their ability to survive, breed, or reproduce, or to rear or nurture young;
  - To impair their ability to hibernate or migrate
  - To affect significantly the local distribution or abundance of the species
- Damage or destruction of a breeding site or resting place

Bats are afforded the following additional protection through the WCA as they are included on Schedule 5:

- Intentional or reckless disturbance (at any level)
- Intentional or reckless obstruction of access to any place of shelter or protection

**EFFECT OF LEGISLATION AND POLICY ON DEVELOPMENT WORKS**

A European Protected Species Licence (EPSL) issued by the relevant countryside agency (i.e. Natural England) will be required for works are likely to affect a bat roost or an operation which are likely to result in an illegal level of disturbance to the species will require an EPSL. The licence is to allow derogation from the legislation through the application of appropriate mitigation measures and monitoring.

**Hazel Dormice**

Hazel dormice *Muscardinus avellanarius* are fully protected under Habitats Regulations through their inclusion on Schedule 2. Regulation 41 prohibits:

- Deliberate killing, injuring or capturing of Schedule 2 species

- Deliberate disturbance of species in such a way as:
- To impair their ability to survive, breed, or reproduce, or to rear or nurture young;
- To impair their ability to hibernate or migrate
- To affect significantly the local distribution or abundance of the species
- Damage or destruction of a breeding site or resting place

Dormice are also protected under the WCA 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

#### **EFFECT OF LEGISLATION AND POLICY ON DEVELOPMENT WORKS**

Works which are liable to affect a dormice habitat or an operation which are likely to result in an illegal level of disturbance to the species will require a European Protected Species Licence (EPSL) issued by the relevant countryside agency (i.e. Natural England). The licence is to allow derogation from the legislation through the application of appropriate mitigation measures and monitoring.

#### ***White Clawed Crayfish***

There is a considerable amount of legislation in place in an attempt to protect the White-clawed crayfish *Austropotamobius pallipes*. This species is listed under the European Union's (EU) Habitat and Species Directive and is listed under Schedule 5 of the Wildlife and Countryside Act (1981). This makes it an offence to:

- Protected against intentional or reckless taking
- Protected against selling, offering or advertising for sale, possessing or transporting for the purpose of sale

#### **EFFECT OF LEGISLATION AND POLICY ON DEVELOPMENT WORKS**

The relevant countryside agency (i.e. Natural England) will need to be consulted about development which could impact on a watercourse or wetland known to support white clawed crayfish. Conservation licences for the capture and translocation of crayfish can be issued if it can be shown that the activity has been properly planned and executed and thereby contributes to the conservation of the population. The licence will only be granted to a suitably experienced person if it can be shown that adequate surveys have been undertaken to inform appropriate mitigation measures. Identification and preparation of a suitable receptor site will be necessary prior to the commencement of the works.

**Wild Mammals (Protection Act) 1996**

All wild mammals are protected against intentional acts of cruelty under the above legislation. This makes it an offence to mutilate, kick, beat, nail or otherwise impale, stab, burn, stone, crush, drown, drag or asphyxiate any wild mammal with intent to inflict unnecessary suffering.

To avoid possible contravention, due care and attention should be taken when carrying out works (for example operations near burrows or nests) with the potential to affect any wild mammal in this way, regardless of whether they are legally protected through other conservation legislation or not.

**Legislation Afforded to Plants**

With certain exceptions, all wild plants are protected under the WCA. This makes it an offence for an 'unauthorised' person to intentionally (or recklessly in Scotland) uproot wild plants. An authorised person can be the owner of the land on which the action is taken, or anybody authorised by them.

Certain rare species of plant, for example some species of orchid, are also fully protected under Schedule 8 of the Wildlife and Countryside Act 1981 (as amended). This prohibits any person from:

- Intentionally picking, uprooting or destruction of any wild Schedule 8 species
- Selling, offering or exposing for sale, or possessing or transporting for the purpose of sale, any wild live or dead Schedule 8 plant species or part thereof
- In addition to the UK legislation outlined above, several plant species are fully protected under Schedule 5 of The Conservation of Habitats and Species Regulations 2010. These are species of European importance. Regulation 45 makes it an offence to:
- Deliberately pick, collect, cut, uproot or destroy a wild Schedule 5 species
- Be in possession of, or control, transport, sell or exchange, or offer for sale or exchange any wild live or dead Schedule 5 species or anything derived from such a plant.

**EFFECT OF LEGISLATION AND POLICY ON DEVELOPMENT WORKS**

A European Protected Species Licence (EPSL) will be required from the relevant countryside agency (i.e. Natural England) for works which are likely to affect species of plants listed on Schedule 5 of the Conservation of Habitats and Species Regulations 2010. The licence is to allow derogation from the legislation through the application of appropriate mitigation measures and monitoring.

***Invasive Species***

Part II of Schedule 9 of the WCA lists non-native invasive plant species for which it is a criminal offence in England to plant or cause to grow in the wild due to their impact on native wildlife. Species included (but not limited to):



- Japanese knotweed *Fallopia japonica*
- Giant hogweed *Heracleum mantegazzianum*
- Himalayan balsam *Impatiens glandulifera*

### **EFFECT OF LEGISLATION AND POLICY ON DEVELOPMENT WORKS**

It is not an offence for plants listed in Part II of Schedule 9 of the WCA 1981 to be present on the development site, however, it is an offence to cause them to spread. Therefore, if any of the species are present on site and construction activities may result in further spread (e.g. earthworks, vehicle movements) then it will be necessary to design and implement appropriate mitigation prior to construction commencing.

#### ***Injurious weeds***

Under the Weeds Act 1959 any landowner or occupier may be required prevent the spread of certain ‘injurious weeds’ including (but not limited to):

- Spear thistle *Cirsium vulgare*
- Creeping thistle *Cirsium arvense*
- Curled dock *Rumex crispus*
- Broad-leaved dock *Rumex obtusifolius*
- Common ragwort *Senecio jacobaea*

### **EFFECT OF LEGISLATION AND POLICY ON DEVELOPMENT WORKS**

It is a criminal offence to fail to comply with a notice requiring such action to be taken. The Ragwort Control Act 2003 establishes a ragwort control code of practice as common ragwort is poisonous to horses and other livestock. This code provides best practice guidelines and is not legally binding.

### **NATIONAL PLANNING POLICY**

#### ***Environment Act 2021***

The Environment Act 2021 (EA 2021) received Royal Assent on 9 November 2021 and is expected to become fully mandated within the next couple of years. The Act principally creates a post Brexit framework to protect and enhance the natural environment. Through amendments to the Town and Country Planning Act 1990, the Act will require all planning permissions in England (subject to exemptions which is likely to include householder applications) to be granted subject to a new general pre-commencement condition that requires approval of a biodiversity net gain plan. This will ensure the delivery of a minimum of 10% measurable biodiversity net gain. The

principal tool to calculate this will be the Defra Biodiversity 3.0 Metric. Works to enhance habitats can be carried out either onsite or offsite or through the purchase of 'biodiversity credits' from the Secretary of State. However, this flexibility may be removed (subject to regulations) if the onsite habitat is 'irreplaceable'. Both onsite and offsite enhancements must be maintained for at least 30 years after completion of a development (which period may be amended).

### ***National Planning Policy Framework 2021***

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 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 species of principal importance under Section 41 of the Natural Environment and Rural Communities (NERC) Act 2006) is also listed as a requirement of planning policy.

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 mitigation or compensation where significant harm cannot be avoided; measurable gains in biodiversity in and around developments are incorporated; and planning permission is 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***

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 is commonly referred to as the 'biodiversity duty'.

Section 41 of the Act requires the Secretary of State to publish a list of habitats and species which are of 'principal importance for the conservation of biodiversity'. This 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 consideration in determining planning applications. A developer must show that their protection has been adequately addressed within a development proposal.

### **EUROPEAN PROTECTED SPECIES POLICIES**

In December 2016 Natural England officially introduced the four licensing policies throughout England. The four policies seek to achieve better outcomes for European Protected Species (EPS) and reduce unnecessary costs, delays and uncertainty that can be inherent in the current standard EPS licensing system. The policies are summarised as follows:

- Policy 1; provides greater flexibility in exclusion and relocation activities, where there is investment in habitat provision;
- Policy 2; provides greater flexibility in the location of compensatory habitat;
- Policy 3; provides greater flexibility on exclusion measures where this will allow EPS to use temporary habitat; and,
- Policy 4; provides a reduced survey effort in circumstances where the impacts of development can be confidently predicted.

The four policies have been designed to have a net benefit for EPS by improving populations overall and not just protecting individuals within development sites. Most notably Natural England now recognises that the Habitats Regulations legal framework now applies to 'local populations' of EPS and not individuals/site populations.