



## Legend

- 1 Target Notes
- ---- w1g6 line of trees
- ----- h2a hedgerow (Priority Habitat)
- r1e canal or ditch
- u1c artificial unvegatated unsealed surface
- 10 scattered scrub
  - 11 scattered young trees
  - w1f lowland mixed deciduous woodland
  - w1g other woodland-broadleaved
- w1g6 line of trees
- w1h other woodland mixed
- h2a hedgerow (priority habitat)
- h3h mixed scrub
  - c1c cereal crops
- u1 built-up areas and gardens
- u1b developed land, sealed surface
- u1b5 buildings
  - u1b6 other developed land
- u1c artificial unvegetated unsealed surface
- ¥ u1d suburban mosaic of developed/natural surface
  - s sparsely vegetated land
- r1a eutrophic standing waters

100 150 200 m

## **Hydrock**

Cambridge Biomedical Campus **Preliminary Ecological Appraisal** 

Figure 2b. UKHab Habitat Map Southern Extent

> Brook Holt 3 Blackburn Road Sheffield S61 2DW • tel: 0114 266 9292 • www.ecusltd.co.uk



# Figure 2c: Target notes

Target Note	Description
TN1	Rabbit Burrows
TN2	Rabbit Burrows
TN3	Badger Sett (NOTE this information must be redacted if it is made publicly accessible, to prevent animal persecution)
TN4	Area presumed to be bare ground as building works are apparent, but area is boarded up and visibility was limited
TN5	Sycamore tree with knot hole PRF, moderate suitability for roosting bats
TN6	Buddleia davidii
TN7	Land south west of the southern section was not accessible



# Figure 3: Statutory designated sites of national or less than national importance and Non-statutory designated sites within 2 km of the Site (CPERC, 2022)

Note, this information is included with permission from CPERC. Designation confers no right of public access.

**Designated Sites Map** 

for ECUS

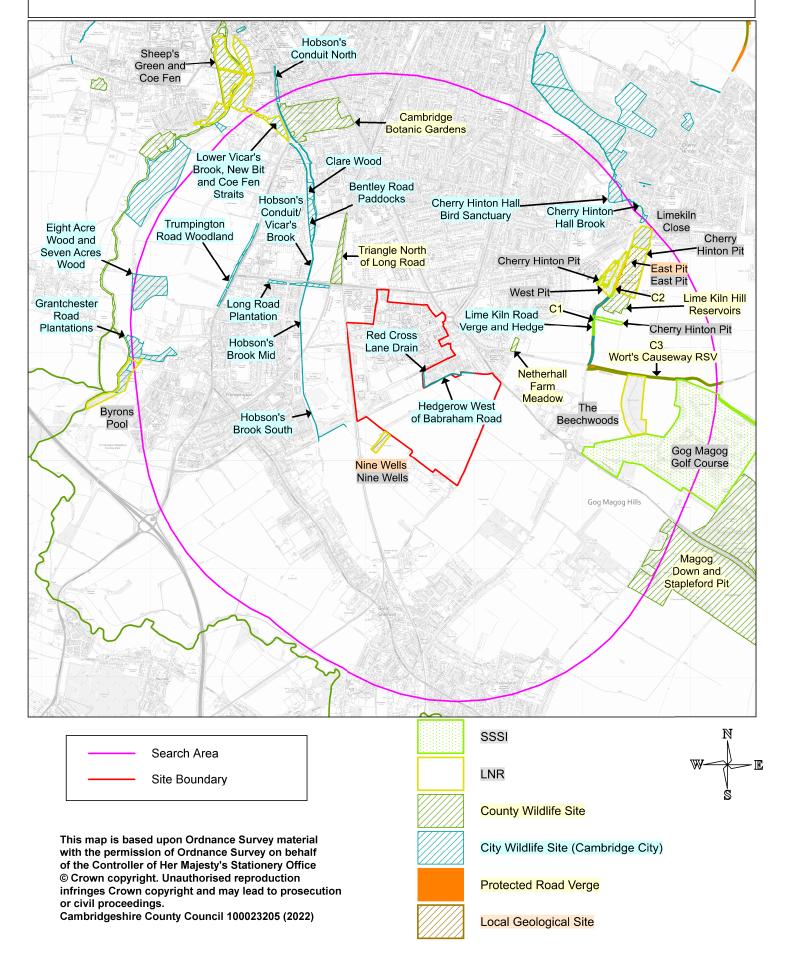
Cambridge

1:35000

3rd August 2022

CPERC
The Manor House
Broad Street
Cambourne
Cambridgeshire
CB23 6DH







# Appendix 1 Site Photographs













- 1 Cereal cropland with ruderal/ephemeral margins
- Road with a small pocket of natural/unnatural mosaic behind and an urban tree
- 3 Lowland mixed deciduous woodland
- 4 Mixed coniferous and deciduous woodland

#### Hydrock

**Pre**liminary Ecological Appraisal 19312 Cambridge Biomedical Campus

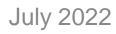
Appendix 1: Site Photographs

Ecus Ltd.

151 Silbury Boulevard, Milton Keynes, MK9 1LH













- 5 Mixed scrub with plantation woodland behind
- 6 TN2 Rabbit burrow
- 7 TN3 Badger sett in broadleaf woodland plantation and ruderal/ephemeral land in front
- 8 TN5 Sycamore with knot hole

#### Hydrock

**Pre**liminary Ecological Appraisal 19312 Cambridge Biomedical Campus

Appendix 1: Site Photographs

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151 Silbury Boulevard, Milton Keynes, MK9 1LH



### Appendix 2 Legislation

This Appendix is intended as a brief guide to some of the relevant offences associated with protected species which are common constraints associated with development projects.

For full details of legislation relating to all habitats and species discussed within this report visit http://www.legislation.gov.uk.

#### Amphibians including great crested newt

Great crested newt *Triturus cristatus* (GCN) is protected under the Wildlife & Countryside Act 1981 (as amended) ("the WCA 1981") and the Conservation of Habitats and Species Regulations 2017 (as amended) ("the Habitats Regulations"), and is therefore a European Protected Species (EPS).

It is illegal to kill, injure, capture, handle or disturb GCN, and the places they use for breeding, resting, shelter and protection are protected from being damaged or destroyed.

Natterjack toad Epidalea calamita is also a EPS and is afforded the same protection.

GCN, natterjack toad and common toad *Bufo bufo* are Priority Species under the Natural Environment and Rural Communities Act 2006 ("the NERC Act").

The four widespread species of amphibian: the smooth and palmate newts, the common frog and common toad, are protected by Section 9 (5) of the WCA 1981 which prohibits sale, barter, exchange, transporting for sale and advertising to sell or to buy.

#### **Badger**

Badgers *Meles meles* and their setts are protected under the Protection of Badgers Act 1992 ("the PBA 1992"). It is an offence to kill, injure or take a badger from the wild. It is also an offence to destroy, damage or obstruct an active badger sett, or to disturb badgers within the sett.

#### **Bats**

All species of bat occurring within the UK are included in Schedule 2 of the Habitats Regulations. Under Regulation 43, bats are protected from deliberate capture, injury or killing, from deliberate disturbance and from damage or destruction of a breeding site or resting place (roost).

All UK bats are also included on Schedule 5 of the WCA 1981. It is an offence to intentionally or recklessly disturb bats while they are occupying a structure or place used for shelter or protection, or to obstruct access to any such place.

Bats are also listed as Priority Species under Section 41 of the NERC Act and certain species are Priority Species under the NERC Act.

#### **Birds**

All wild birds are protected under the WCA 1981 against destruction of the active nest.

It is illegal to kill, injure or 'take' any wild bird, take or damage the nest of any wild bird whilst in use or being built. The eggs of all wild birds are also protected.

The birds listed in Schedule 1 of the WCA 1981 are protected against disturbance whilst actively nesting.

Competent authorities must have regard for all bird species listed under Section 41 of the NERC Act have



potential to be impacted by proposed works.

In 2021, a re-assessment of Birds of Conservation Concern (BoCC) was published by Stanbury et al. (2021), which defined rare and threatened bird species on two lists (Red and Amber) describing the level of threat to each species of concern.

'Red' is the highest conservation priority, with species needing urgent action due to either a historical decline in breeding population, severe (>50%) decline in breeding or non-breeding population, or severe decline in breeding range over 50 years or more.

'Amber' is the next most critical group, with species qualifying for this status as a result of either recovery from red list criterion, being classed as rare breeders in the UK, moderate (>25%) decline in breeding or non-breeding population or moderate decline in breeding range over 25 years or more.

These categories are followed by 'Green', indicating that the species is not experiencing population declines. A species can be green-listed but can also be listed under Schedule 1 of the WCA 1981 due to risk of persecution.

#### Freshwater and migratory fish

Various freshwater and migratory fish species and their habitats are afforded legal protection under the WCA 1981, Salmon and Freshwater Fisheries Act 1975 and Eels (England and Wales) Regulations 2009.

The following fish receive various levels of protection under the WCA 1981: allis shad *Alosa alosa*, twaite shad *Alosa fallax*, vendace *Coregonus albula*, whitefish *Coregonus lavaretus* and Atlantic sturgeon *Acipenser sturio*. Atlantic sturgeon are also EPS.

Special areas of conservation (SACs), sites of special scientific interest (SSSIs) or Ramsar sites have features of special interest for freshwater or migratory fish, such as: Atlantic salmon *Salmo salar*, bullhead *Cottus gobio*, lamprey (brook, river and sea) (*Petromyzontiformes*), spined loach *Cobitis taenia*, European eel *Anguilla anguilla*.

Atlantic salmon, brown/sea trout *Salmo trutta*, river lamprey and European eel are listed as priority species under Section 41 of the NERC Act.

Eels are also protected by the Eels (England and Wales) Regulations 2009.

#### **Hazel dormouse**

Hazel dormouse *Muscardinus avellanarius* is protected under Schedule 5 of the WCA 1981, and under Schedule 2 of the Habitats Regulations, giving this species the same protection as GCN and bats.

Hazel dormouse is also listed as a Priority Species under the Section 41 of the NERC Act.

#### Otter

Otter *Lutra lutra* is protected under Schedule 5 of the WCA 1981, and under Schedule 2 of the Habitats Regulations, giving this species the same protection as GCN and bats.

Otter are listed as Priority Species under the Section 41 of the NERC Act.

#### Reptiles

All UK reptile species are protected under Schedule 5 of the WCA 1981 against intentional killing or injuring.



Sand lizard *Lacerta agilis* and smooth snake *Coronella austriaca* are further protected under Schedule 2 of the Habitats Regulations.

Slow worm *Anguis fragilis*, sand lizard, common lizard *Zootoca vivipara*, grass snake *Natrix helvetica* and adder *Vipera berus* are also listed as Priority Species under the Section 41 of the NERC Act.

#### Water vole

Water vole *Arvicola amphibius* is fully protected under Schedule 5 of the WCA 1981 making it an offence to intentionally kill, injure or take a water vole, intentionally or recklessly damage or destroy a place of shelter or protection, intentionally or recklessly disturb a water vole when it is occupying such a place, or intentionally or recklessly obstruct such a place.

Water vole are listed as Priority Species under the Section 41 of the NERC Act.

#### White-clawed crayfish

White-clawed crayfish *Austropotamobius pallipes* are partially protected under Schedule 5 of the WCA 1981, which makes it illegal to intentionally take them.

White-clawed crayfish are listed as Priority Species under the Section 41 of the NERC Act.

#### **Invasive non-native species**

Certain species of plants and animals that do not naturally occur in the UK have become established in the wild and represent a threat to the natural fauna and flora.

The WCA 1981 is the principal piece of legislation in the UK regarding invasive non-native species. It is an offence under Section 14 (2) to plant or otherwise cause to grow in the wild any species listed on Schedule 9, Part II of the Act. Schedule 9, Part II includes knotweed species *Fallopia* spp., Himalayan balsam *Impatiens glandulifera*, giant hogweed *Heracleum mantegazzianum*, cotoneaster species *Cotoneaster* spp., montbretia *Crocosmia x crocosmiiflora* and Rhododendron species *Rhododendron* spp. Section 14 also controls the spread of various animal species.

In accordance with Section 33 and 34 of the Environmental Protection Act 1990, if taken from their place of origin, any plant listed on Schedule 9, Part II of the WCA 1981 and their associated material (e.g. soil and ash) are classed as controlled waste.



# Appendix 3 Non-statutory designated sites within 2km of the Site

Site name	Designation	Distance from the Site at closest point	Reasons for designation
Hedgerow West of Babraham Road	City Wildlife Sites	0 m	Hedgerow at least 100m in length and 2m in width at its widest point with four or more woody species.
Red Cross Lane Drain	City Wildlife Sites	0 m	Supports five or more neutral grassland indicator species in frequent numbers.
Netherhall Farm Meadow	County Wildlife Sites	285 east	Important calcareous grassland community. Supports frequent numbers of at least 8 neutral grassland indicator species.
Triangle North of Long Road	County Wildlife Sites	380 m north	The site qualifies as a County Wildlife Site because of the presence of a Nationally Scarce vascular plant species <i>Torilis arvensis</i> .
Hobson's Brook Mid	City Wildlife Sites	435 m west	Chalk stream together with adjacent semi-natural habitat that has not been grossly modified through canalisation and/or poor water quality.
Hobson's Brook South	City Wildlife Sites	440 m west	Chalk stream together with adjacent semi-natural habitat that has not been grossly modified through canalisation and/or poor water quality.
Long Road Plantation	City Wildlife Sites	555 m north west	Recent woodland 1ha or more in area and with five or more woodland plants.



Site name	Designation	Distance from the Site at closest point	Reasons for designation
Hobson's Conduit / Vicar's Brook	City Wildlife Sites	580 m north west	Chalk stream with adjacent semi-natural habitat that has not been grossly modified much.  Has a group of pollard
			willows
Bentley Road Paddocks	City Wildlife Sites	770 m north west	Neutral grassland with two or more strong neutral grassland indicator species in frequent numbers.
Wort's Causeway RSV	County Wildlife Sites	845 m east	Supports frequent numbers of at least 6 strong calcareous grassland indicator species.
Trumpington Road Woodland	City Wildlife Sites	1140 m west	Woodland with high biodiversity.
Lime Kiln Hill Reservoirs	County Wildlife Sites	1170 m east	Three strong neutral grassland indicator species and six calcareous grassland indicator species
Clare Wood	City Wildlife Sites	1310 m north west	Scrub over 0.5ha in area with four or more woody species. Also qualifies as semi-natural habitat adjacent to a chalk stream.
Lime Kiln Road Verge and Hedge	City Wildlife Sites	1380 m east	Supports five or more neutral grassland indicator species in frequent numbers and hedgerow at least 100m long and 2m wide at its widest point with four or more woody species.
Eight Acre Wood and Seven Acres Wood	City Wildlife Sites	1590 m west	Woodland over 1ha in area and with 5 or more woodland plants.



Site name	Designation	Distance from the Site at closest point	Reasons for designation
Cambridge Botanic Gardens	County Wildlife Sites	1620 m north	The site is listed as a site of importance in the Bryophyte Site Register
Grantchester Road Plantations	City Wildlife Sites	1690 m north west	Woodland over 1ha in area and with 5 or more woodland plants.
Lime Kiln Close LNR	County Wildlife Sites	1770 m north east	Supports a population of a Nationally Rare non-vascular plant <i>Tortula vahliana</i> .
Lower Vicar's Brook, New Bit and Coe Fen Straits	City Wildlife Sites	1780 m north	Chalk stream with adjacent semi-natural habitat that has not been grossly modified through canalisation and/or poor water quality.
Magog Down and Stapleford Pit	County Wildlife Sites	1830 m south	Calcareous grassland
Cherry Hinton Hall Bird Sanctuary	City Wildlife Sites	1880 m north east	Woodland 1ha or more in area with 5 or more woodland plants.
Cherry Hinton Hall Brook	City Wildlife Sites	1950 m north east	Chalk stream with semi- natural grassland that has not been grossly modified through canalisation and/or poor water quality.
Hobson's Conduit North	City Wildlife Sites	2000 m north	Chalk stream together with adjacent semi-natural habitat that has not been grossly modified through canalisation and/or poor water quality.



Site name	Designation	Distance from the Site at closest point	Reasons for designation



# Appendix 4 Granted licences for bats within 2 km of the Site

Licence number	Species	Approximate distance and direction from the Site	Licence impacts	Date
2014-6258-EPS- MIT	Common pipistrelle	1030 m north	Destruction of breeding site	09/03/2015 to 06/02/2025
2015-10635-EPS- MIT	Common pipistrelle and Brown long- eared bat	1800 m west	Destruction of a resting place	25/08/2015 to 31/08/2020
2015-14437-EPS- MIT	Common pipistrelle, Soprano pipistrelle and Brown long- eared bat	1800 m west	Destruction of a resting place and breeding site	22/10/2015 to 31/10/2025
2019-43271-EPS- MIT	Common pipistrelle and Brown long- eared bat	680 m south west	Destruction of a resting place	06/11/2019 to 30/04/2025
2017-31279-EPS- MIT	Common pipistrelle	1720 m north east	Destruction of a resting place	19/10/2017 to 31/10/2018

# Appendix 5 Notable bird species within 2 km of the Site

Vernacular name	Scientific name	Protected status
Barn Owl	Tyto alba	Schedule 1
Barnacle Goose	Branta leucopsis	Amber
Black Redstart	Phoenicurus ochruros	Schedule 1, Amber
Black Tern	Chlodonias niger	Schedule 1
Black-headed Gull	Chroicocephalus ridibundus	Amber
Brambling	Fringilla montifringilla	Schedule 1
Bullfinch	Pyrrhula pyrrhula	Amber
Common Gull	Larus canus	Amber



Vernacular name	Scientific name	Protected status
Common Sandpiper	Actitis hypoleucos	Amber
Common Tern	Sterna hirundo	Amber
Corn Bunting	Emberiza calandra	Red
Red Crossbill	Loxia curvirostra	Schedule 1
Cuckoo	Cuculus canorus	Red
Dunlin	Calidris alpina	Red
Dunnock	Prunella modularis	Amber
Fieldfare	Turdus pilaris	Schedule 1, Red
Gadwall	Mareca strepera	Amber
Golden Plover	Pluvialis apricaria	
Great Black-backed Gull	Larus marinus	Amber
Green Sandpiper	Tringa ochropus	Schedule 1, Amber
Greenshank	Tringa nebularia	Schedule 1, Amber
Grey Partridge	Perdix perdix	Red
Grey Wagtail	Motacilla cinerea	Amber
Greylag Goose	Anser anser	Amber
Herring Gull	Larus argentatus	Red
Hobby	Falco subbuteo	Schedule 1
House Martin	Delichon urbicum	Red
House Sparrow	Passer domesticus	Red
Kestrel	Falco tinnunculus	Amber
Kingfisher	Alcedo atthis	Schedule 1
Lapwing	Vanellus vanellus	Red



Vernacular name	Scientific name	Protected status
Lesser Black-backed Gull	Larus fuscus	Amber
Lesser Redpoll	Acanthis cabaret	
Linnet	Linaria cannabina	Red
Little Egret	Egretta garzetta	
Little Gull	Hydrocoloeus minutus	
Little Ringed Plover	Charadrius dubius	Schedule 1
Mallard	Anas platyrhynchos	Amber
Marsh Harrier	Circus aeruginosus	Amber
Marsh Tit	Poecile palustris	Red
Meadow Pipit	Anthus pratensis	Amber
Merlin	Falco columbarius	Schedule 1, Red
Mistle Thrush	Turdus viscivorus	Red
Mute Swan	Cygnus olor	
Osprey	Pandion haliaetus	Schedule 1, Amber
Oystercatcher	Haematopus ostralegus	Amber
Peregrine	Falco peregrinus	Schedule 1
Pochard	Aythya ferina	Red
Red Kite	Milvus milvus	Schedule 1
Redstart	Phoenicurus phoenicurus	Amber



Vernacular name	Scientific name	Protected status
Redwing	Turdus iliacus	Schedule 1, Amber
Reed Bunting	Emberiza schoeniclus	Amber
Ringed Plover	Charadrius hiaticula	Red
Ruff	Calidris pugnax	Schedule 1, Red
Sandwich Tern	Thalasseus sandvicensis	Amber
Shag	Phalacrocorax aristotelis	Red
Shelduck	Tadorna tadorna	Amber
Shoveler	Spatula clypeata	Amber
Skylark	Alauda arvensis	Red
Snipe	Gallinago gallinago	Amber
Song Thrush	Turdus philomelos	Amber
Spotted Flycatcher	Muscicapa striata	Red
Starling	Sturnus vulgaris	Red
Stock Dove	Columba oenas	Amber
Swift	Apus apus	Red
Tawny Owl	Strix aluco	Amber
Teal	Anas crecca	Amber
Tree Sparrow	Passer montanus	Red
Turnstone	Arenaria interpres	Amber
Water pipit	Anthus spinoletta	Amber
Whinchat	Saxicola rubetra	Red
Wigeon	Mareca penelope	Amber
Willow Warbler	Phylloscopus trochilus	Amber



Vernacular name	Scientific name	Protected status
Woodcock	Scolopas rusticola	Red
Yellow Wagtail	Motacilla flava	Red
Yellowhammer	Emberiza citronella	Red
Yellow-legged Gull	Larus michahellis	Amber



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