



Former Congregational Church, Street Lane

Preliminary Ecological Appraisal

11/09/2024



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1 Introduction

1.1 Site Description

The site is located off Street Lane, in the centre of Ardingly, in the County of West Sussex at approximate postcode RH17 6UB.

The site, which is <0.05 hectares in size and centred on Ordnance Survey (OS) grid reference TQ 3470 2946, contains a former congregational church building with associated garden areas to the side and rear.

The land immediately surrounding the site is relatively rural in character, containing residential and commercial properties, roads, hedgerows and scattered trees, along with agricultural fields, woodlands and water bodies in the wider surrounding landscape.

The site and surrounding area are illustrated in aerial images provided in Appendix 1, a site location plan is given in Appendix 2 and photographs of the site are supplied in Appendix 3.

1.2 Proposed Works

It is understood that the proposed works are the subject of a planning application to Mid Sussex District Council, the Local Planning Authority (LPA), for conversion of the existing building for residential use.

1.3 Aims of Study

To inform the planning application, GreenLink Ecology Ltd. has been commissioned to conduct a Preliminary Ecological Appraisal (PEA) for the site, to include a detailed desk study, along with a survey to identify what habitats are present and to look for any evidence of/potential for, protected/notable species. The key objectives of the PEA are to:

- Identify likely ecological constraints associated with the proposals;
- Identify mitigation measures likely to be required;
- Identify additional surveys that may be required to inform an Ecological Impact Assessment¹ (EclA);
- Identify potential opportunities offered by the proposals to deliver ecological enhancement; and
- Assess the need for a Biodiversity Net Gain (BNG) assessment to be conducted for the site.

¹ CIEEM (2018) *Guidelines for Ecological Impact Assessment in the UK and Ireland: Terrestrial, Freshwater, Coastal and Marine*. Chartered Institute of Ecology and Environmental Management, Winchester.

2 Methodology

2.1 Desk Study

The Sussex Biodiversity Record Centre (SBRC) was contacted and records obtained for designated sites and protected/notable species from within a one-kilometre radius of the site, which is considered to be an appropriate Zone of Influence (Zoi) given the restricted scope of the proposals and small size of the site.

2.2 PEA

An initial survey was undertaken on 22nd August 2024 by experienced consultant ecologist Marcus Fry MCIEEM², in accordance with the published guidelines³. The native plant species and habitat types present were identified and any evidence of, or potential for, protected/notable species and their habitats was recorded. On the day of the survey, the weather conditions were overcast and the temperature at midday was around 23°C.

2.3 Bat Survey

Since the proposals include works to the building, which could directly impact upon bats, this was assessed for any evidence of, or potential for bats, using a ladder, binoculars and 3000 lumen LED torch in accordance with the 2023 Bat Conservation Trust's (BCT) published guidance⁴ by experienced Natural England bat licence holders Marcus Fry MCIEEM (2015-10955-CLS) and Rachel Hedley (2022-10333-CLS). Features and evidence considered during the survey included:

- Roof and wall construction;
- Features that have the potential to be actual bat roosts or provide access to roosting opportunities within the building;
- Any droppings and/or staining on external walls, or around potential access points;
- Scattered or accumulated bat droppings (identified by their dry, powdery texture when compressed) within the roof void or around entrances to potential roosts;
- Places where cobwebs have been swept away; and
- The actual presence of live or dead bats.

On a precautionary basis, a dusk emergence survey was conducted for the building on 22nd August 2024 by the same experienced Natural England bat licence holders. The scope of the survey comprised a single visit, which is the minimum survey effort required to have confidence in a negative result, according to the 2023 BCT published guidance (summarised in Table 1).

Table 1: Recommended minimum number of survey visits

Low potential	Moderate potential	Confirmed/high potential
<u>One dusk survey visit</u>	Two dusk survey visit	Three dusk survey visits

During the survey visit, the surveyors covered opposite aspects of the building using Echo Meter Touch 2 Pro and Anabat Walkabout bat detectors, along with Guide TrackIR-Pro19 thermal imaging cameras, to enable any bats emerging at dusk to be recorded.

² Member of the Chartered Institute of Ecology and Environmental Management (Full)

³ CIEEM (2017) Guidelines for Preliminary Ecological Appraisal, 2nd edition.

⁴ Collins, J. (ed.) (2023) Bat Surveys for Professional Ecologists: Good Practice Guidelines, Bat Conservation Trust (4th Edition)

The dusk emergence survey visit began approximately half an hour before sunset and continued until approximately two hours after sunset. All bat ultrasonic echolocation calls that were made within range of the bat detector were recorded and analysed, to determine which species of bat made them.

3 Results

3.1 Desk Study

3.1.1 Designated Sites/Notable Habitats

According to the SBRC data (Appendix 4), the site is located within the statutory designated High Weald Area of Outstanding Natural Beauty (AONB). There are no other statutory designated sites present and there are no non-statutory designated sites within the Zol.

There are Natural Environment and Rural Communities (NERC) Act 2006 Section 41 priority habitats for conservation present, which include ancient/veteran trees, open water, ghyll woodland, traditional orchard, ancient woodland and deciduous woodland, although none of these habitats are present within the site.

3.1.2 Species Records

The SBRC data report includes records (Appendix 5) for species of amphibian, fish, fungi, plant, invertebrate, mammal, reptile and bird, many of which are relatively common/widespread, that are protected in ways not relevant to the proposed works (e.g. from trade/sale/exploitation) and/or they have specialist habitat requirements not supported by the site. These species are therefore not considered further in this report, although records relating to relevant species are discussed in subsequent sections.

3.2 Habitat Description

In addition to the building, which is considered in a subsequent section, the site contains hard standing/gravel, modified grassland, introduced shrubs, short section of boundary hedgerow and small ornamental trees.

Hard standing is present to the front and sides of the site where there are short footpaths, along with areas of gravel in the side garden. This represents an artificial habitat type that is of inherently low ecological value, with no potential for protected/notable species.

There is a small area of modified grassland to the front and sides of the site, which is species-poor in composition and dominated by perennial rye-grass (*Lolium perenne*), along with dandelion (*Taraxacum officinale*), daisy (*Bellis perennis*), common ragwort (*Senecio jacobaea*) and buttercup (*Ranunculus acris*). This represents a habitat type that is of low ecological value, with no significant potential for protected/notable species.

There are introduced shrubs in the small garden areas, comprised of non-native ornamental species. This represents a habitat type that is of low ecological value, although some of the larger shrubs have low potential for seasonal use by breeding birds.

There is a short section of hedgerow on the northern boundary of the small garden area to the south-east of the site, comprised of a non-native evergreen conifer species, along with several small, ornamental trees. These represent habitat types that are of low ecological value, although they do have limited potential for seasonal use by breeding birds.

In summary, none of the plants within the site are protected/notable species and they do not constitute habitats that are of conservation concern.

3.3 Protected/Notable Species

3.3.1 Bats

The SBRC data report includes records for nine species of bat, including alcahove (*Myotis alcathoe*), Brandt's (*Myotis brandtii*), Daubenton's (*Myotis daubentonii*), whiskered (*Myotis mystacinus*), Natterer's (*Myotis nattereri*), noctule (*Nyctalus noctula*), common pipistrelle (*Pipistrellus pipistrellus*), soprano pipistrelle (*Pipistrellus pygmaeus*) and brown long-eared (*Plecotus auritus*).

The building is single-storey with brick walls and two pitched roof sections clad in machine-made tiles, with the southern pitch of the southern section covered in solar photovoltaic panels. Internally, the northern part of the building has a high, vaulted ceiling and the southern part has a small, insulated roof void.

There was no evidence of bats recorded during the internal and external inspection of the building, which is considered to have low potential for use by roosting bats.

During the detailed bat survey, there were no bats recorded emerging from the building and the level of bat activity associated with the immediate surrounding area was very low, restricted to occasional common pipistrelle bats foraging around the adjacent trees and intermittent noctule bats commuting high above the site.

Table 2: Details of the bat survey

Date	Climatic conditions	Sunset	Species of bat emerging/re-entering (no. of individuals)	Bat activity (calls, not individuals)
22/08/24	Overcast, 20°C Beaufort 1 Humidity 90%	20:06	None	Common pipistrelle (7) Noctule (2)

3.3.2 Breeding Birds

The SBRC data report includes records for numerous species of bird, the majority of which have relatively specialist habitat requirements that are not supported by the site, although there are also records for small species of bird that could potentially use the some of the habitats within the site for breeding purposes.

There was no evidence for actively breeding birds recorded during the survey, which was undertaken within the breeding season (March-July/August), although the introduced shrubs, short section of boundary hedgerow and small ornamental trees represent potentially suitable habitats for use by nesting birds during the breeding season.

4 Assessment

4.1 Constraints

The survey work was undertaken by appropriately experienced and licensed consultant ecologists using standard survey techniques, within the optimal seasonal period, under suitable climatic conditions and in accordance with the published guidelines. It is therefore considered that there were no significant constraints to the PEA or bat survey.

4.2 Potential Impacts

4.2.1 Designated Sites/Notable Habitats

Whilst the site is located within the High Weald AONB, this is a landscape scale designation, which will be unaffected by the proposals.

Although there are NERC Act 2006 Section 41 priority habitats for conservation present in the surrounding area, these are all sufficiently distant from the site for there to be no significant risk of impacts as a result of the proposed work.

4.2.2 Habitats

The habitats within the site are common/widespread types that are not of conservation concern, which will be unaffected by the proposals to convert the building only.

4.2.3 Protected/Notable Species

4.2.3.1 Bats

The results of the detailed dusk emergence survey indicate that bats do not use the building in which to roost and that overall, there is little bat activity associated with the site and immediate surrounding area. Therefore, it is considered that bats would not be affected by the proposals.

4.2.3.2 Breeding Birds

There was no evidence for actively breeding birds recorded during the survey and although there are potentially suitable habitats present within the site, none of this will be removed/disturbed to facilitate the proposed works. Therefore, breeding birds should not be impacted on by the proposed works

4.3 Legislation and Policy

4.3.1 Bats

All species of bat and their habitats are fully protected under the Wildlife and Countryside Act 1981 (as amended by the CROW Act 2000) and by the Conservation of Habitats and Species (Amendment) (EU Exit) Regulations 2019.

The legislation makes it illegal under the Wildlife and Countryside Act 1981 (as amended) to:

- Intentionally or recklessly kill, injure or take a wild bat;
- Be in possession or control of any live or dead wild bat, or any part of, or anything derived from a wild bat;
- Intentionally or recklessly damage, destroy or obstruct access to any place that a wild bat uses for shelter or protection; and

- Intentionally or recklessly disturb any wild bat while it is occupying a structure or place that it uses for shelter or protection.

The legislation makes it illegal under the Conservation of Habitats and Species (Amendment) (EU Exit) Regulations 2019 to:

- Deliberately capture, injure or kill any wild animal of a European Protected Species;
- Deliberately disturb wild animals of any such species. Disturbance of animals includes in particular any disturbance which is likely to:
 - impair their ability -
 - to survive, to breed or reproduce, or to rear or nurture their young; or
 - in the case of animals of a hibernating or migratory species, to hibernate or migrate; or
 - to affect significantly the local distribution or abundance of the species to which they belong;
- Deliberately take or destroy the eggs of such an animal; or
- Deliberately damage or destroy a breeding site or resting place of such an animal.

4.3.2 Breeding Birds

Breeding birds are protected under the Wildlife and Countryside Act 1981 (as amended) which makes it an offence to intentionally or recklessly kill, injure or take any wild bird or take, damage or destroy its nest whilst it is in use or being built, or to take or destroy its eggs.

4.3.3 National Planning Policy Framework

The Government revised the National Planning Policy Framework (NPPF) in December 2023. The NPPF states that when determining planning applications, LPAs should aim to conserve and enhance biodiversity by encouraging opportunities to be taken for the incorporation of biodiversity in and around developments.

4.3.4 Biodiversity Net Gain (BNG)

BNG is part of the Environment Act 2021, which requires development schemes in England to deliver a mandatory 10% BNG by creating or enhancing habitats in association with development, to ensure that proposals “...leave biodiversity in a better state than before”, from February 2024.

5 Recommendations

5.1 Mitigation Measures

5.1.1 Designated Sites/Notable Habitats

Since it is considered that there is no significant risk of impacts to designated sites/notable habitats as a result of the proposed works, mitigation measures are not required.

5.1.2 Habitats

Mitigation measures are not considered necessary for the common/widespread habitat types within the site since there is no significant risk of impacts as a result of the proposals.

5.1.3 Protected/Notable Species

5.1.3.1 Bats and Breeding Birds

Since it is considered that there is no significant risk of potential impacts to bats and breeding birds, mitigation measures are not required.

However, if at any time during the proposed works, it becomes apparent that bats and/or breeding birds are present and at risk of impacts, works will need to temporarily cease whilst an experienced ecologist is consulted about how to proceed without the risk of an offence being committed.

5.2 BNG

As described in Section 3.2 and illustrated in the photographs provided in Appendix 3, the site is dominated by the building/hard standing, which are assigned a zero score in the statutory biodiversity metric and the proposals will not impact a priority habitat type, or >25m² of non-priority habitat. Therefore, according to the guidance, the proposals are exempt from the need for a BNG assessment.

5.3 Enhancement Measures

To ecologically enhance the site in accordance with the principles of the NPPF and ensure that the proposals result in a net gain for biodiversity, the following measures will be implemented, which are appropriate to the site and proportionate to the scale of the proposals:

- The converted building should incorporate 2 no. wall-integrated or wall-mounted bat boxes, along with 4 no. wall-integrated or wall/tree-mounted bird boxes, with the exact make/model and installation locations to be determined upon advice from an experienced ecologist. As a guideline, bat boxes should be installed above at least 4-5 metres from ground level and not illuminated by artificial lighting and bird boxes should be installed above at least 3-4 metres from ground level and not facing south.

6 Conclusions

To inform a planning application, GreenLink Ecology Ltd. was commissioned to undertake a PEA and a detailed bat survey, which have been completed without significant constraint.

The desk study data identifies that the site is located within the High Weald AONB and that there are notable habitat types present in the surrounding area. Since it is considered that there is no significant risk of impacts to designated sites/notable habitats as a result of the proposed works, mitigation measures are not required.

The desk study data also includes a variety of records for protected/notable species, which of relevance includes species of bat and bird.

The PEA that was undertaken by an experienced consultant ecologist, determined that the site contains common/widespread habitat types that are not of conservation concern. Mitigation measures for habitats are not required since the proposals to convert the building will not impact on any of the habitats.

Since the detailed bat survey has determined that bats do not use the building for roosting purposes and the level of bat activity associated with the site and immediate surrounding area is low, mitigation measures are not required for bats.

Although there are small areas of potentially suitable habitats that could be used by birds during the breeding season, these will be unaffected by the proposals and therefore, mitigation measures are not required for breeding birds.

According to the guidance, the proposals are exempt from the need for a BNG assessment, since the site is dominated by the building/hard standing, which are assigned a zero score in the statutory biodiversity metric and the proposals will not impact a priority habitat type, or >25m² of non-priority habitat.

In accordance with the principles of the NPPF, enhancement measures have been recommended for bats and birds, which are appropriate to the site and proportionate to the scale of the proposals.

Overall, there are no known overriding ecological constraints that would prevent the proposed works going ahead, subject to the recommendations made in this report being correctly implemented.

7 Disclaimer

This report is issued to the client for their sole use and for the intended purpose as stated in the agreement between the client and GreenLink Ecology Ltd. under which this work was completed, or else as set out within this report.

This report may not be relied upon by any other party without express written agreement. The use of this report by unauthorised third parties is at their own risk and GreenLink Ecology Ltd. accepts no duty of care to any such third party.

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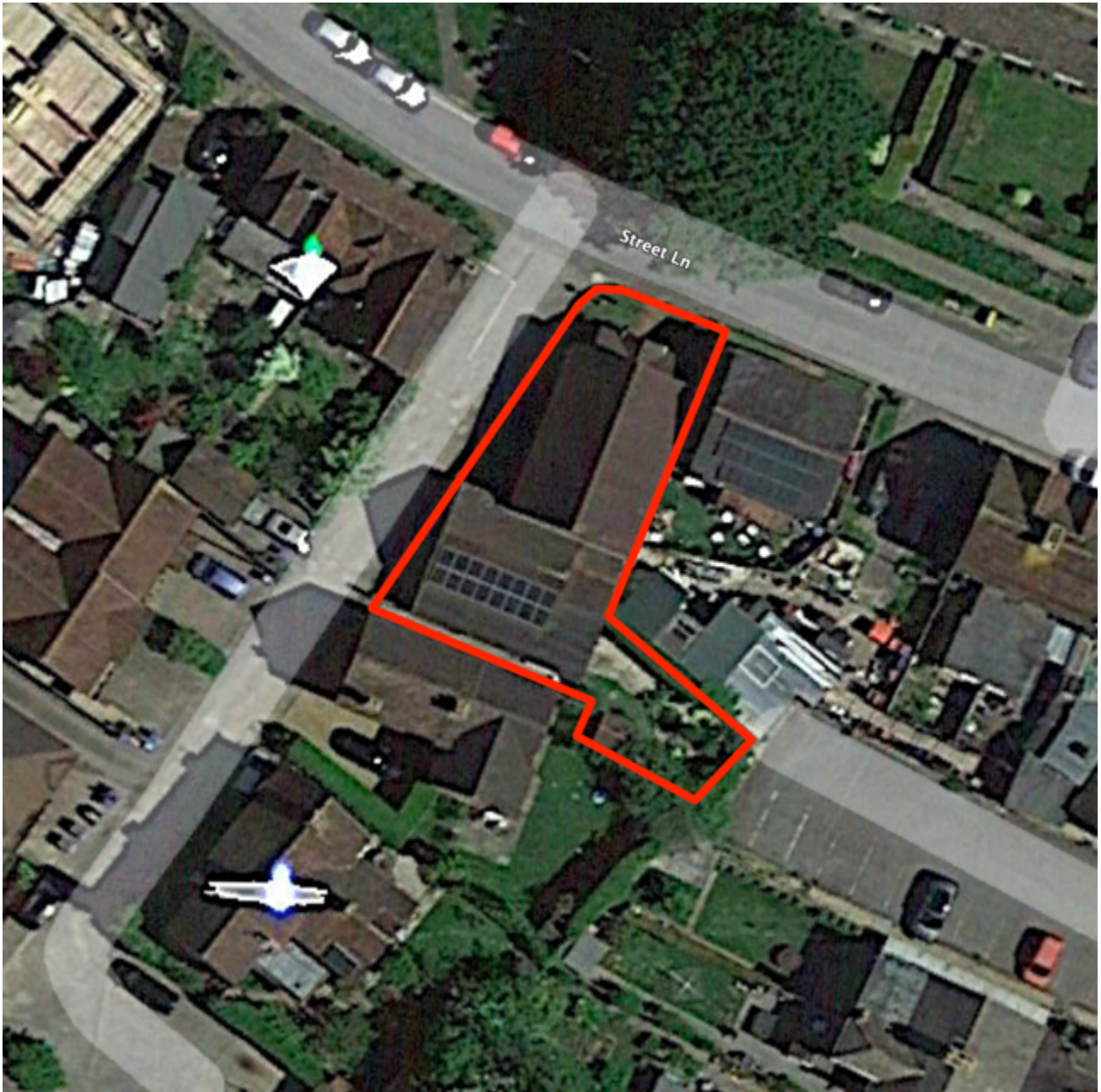
Any recommendation, opinion or finding stated in this report is based on circumstances and facts as they existed at the time that GreenLink Ecology Ltd. performed the work. The content of this report has been provided in accordance with the provisions of the CIEEM Code of Professional Conduct. GreenLink Ecology Ltd. works where appropriate to the scope of our brief, to the principles and requirements of British Standard BS42020.

Nothing in this report constitutes legal opinion. If legal opinion is required the advice of a qualified legal professional should be secured. Observations relating to the state of built structures or trees have been made from an ecological point of view and, unless stated otherwise, do not constitute structural or arboricultural advice.

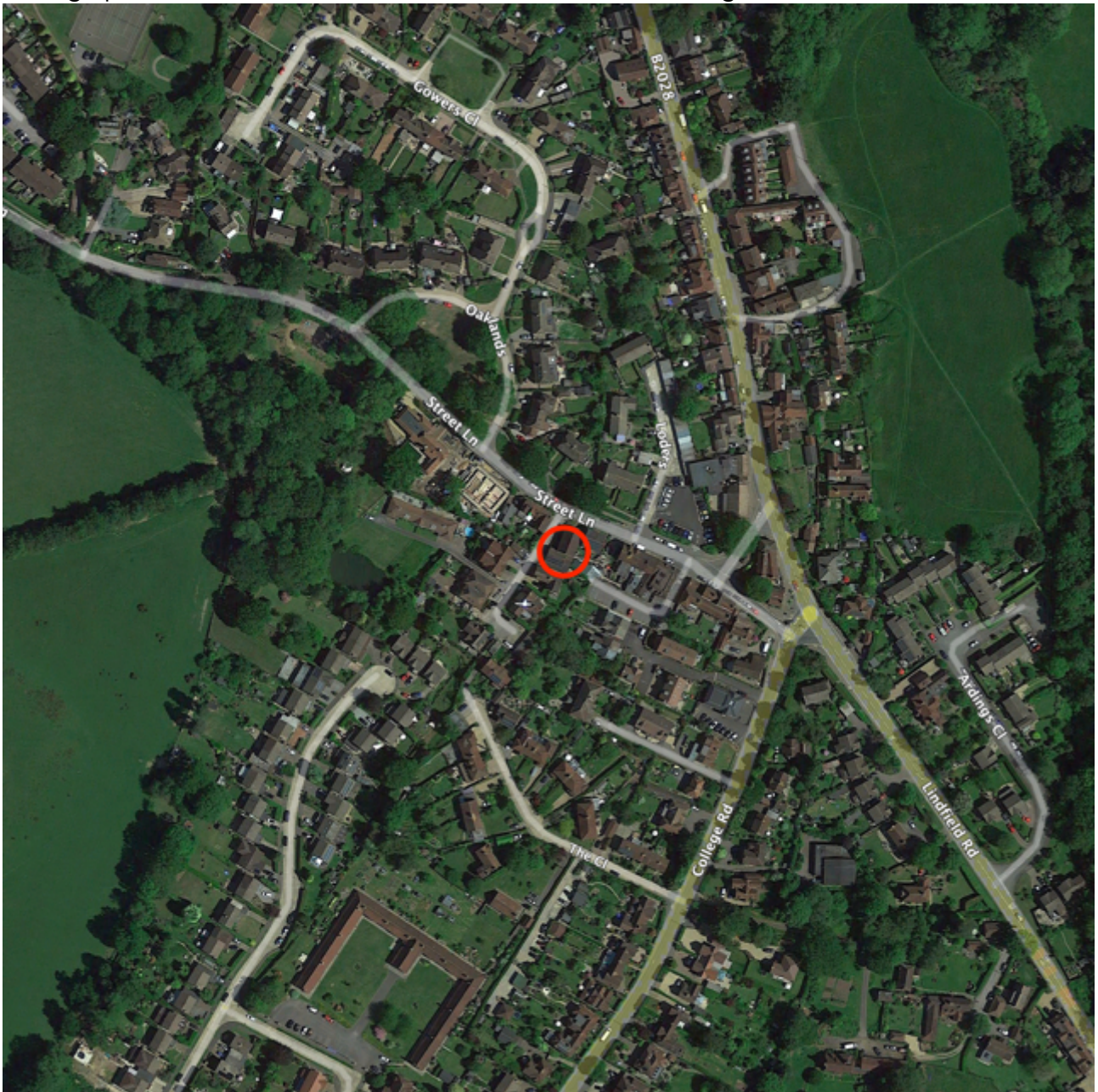
8 Appendices

Appendix 1: Aerial images illustrating the site location and surrounding area

Photograph 1: The approx. site boundaries and immediate surrounding area



Photograph 2: The site location (red circle) and wider surrounding area



Appendix 2: Site location plan



Location Plan

1 : 1250

Appendix 3: Photographs of the site

Photograph 1: Front (north) aspect, looking south



Photograph 2: Front (north) and side (west) aspects, looking south-east



Photograph 3: Side (west) aspect, looking east



Photograph 4: Interior



Photograph 5: Internal roof void – no evidence of bats



Photograph 6: Small garden area to the south-east of the building, looking east

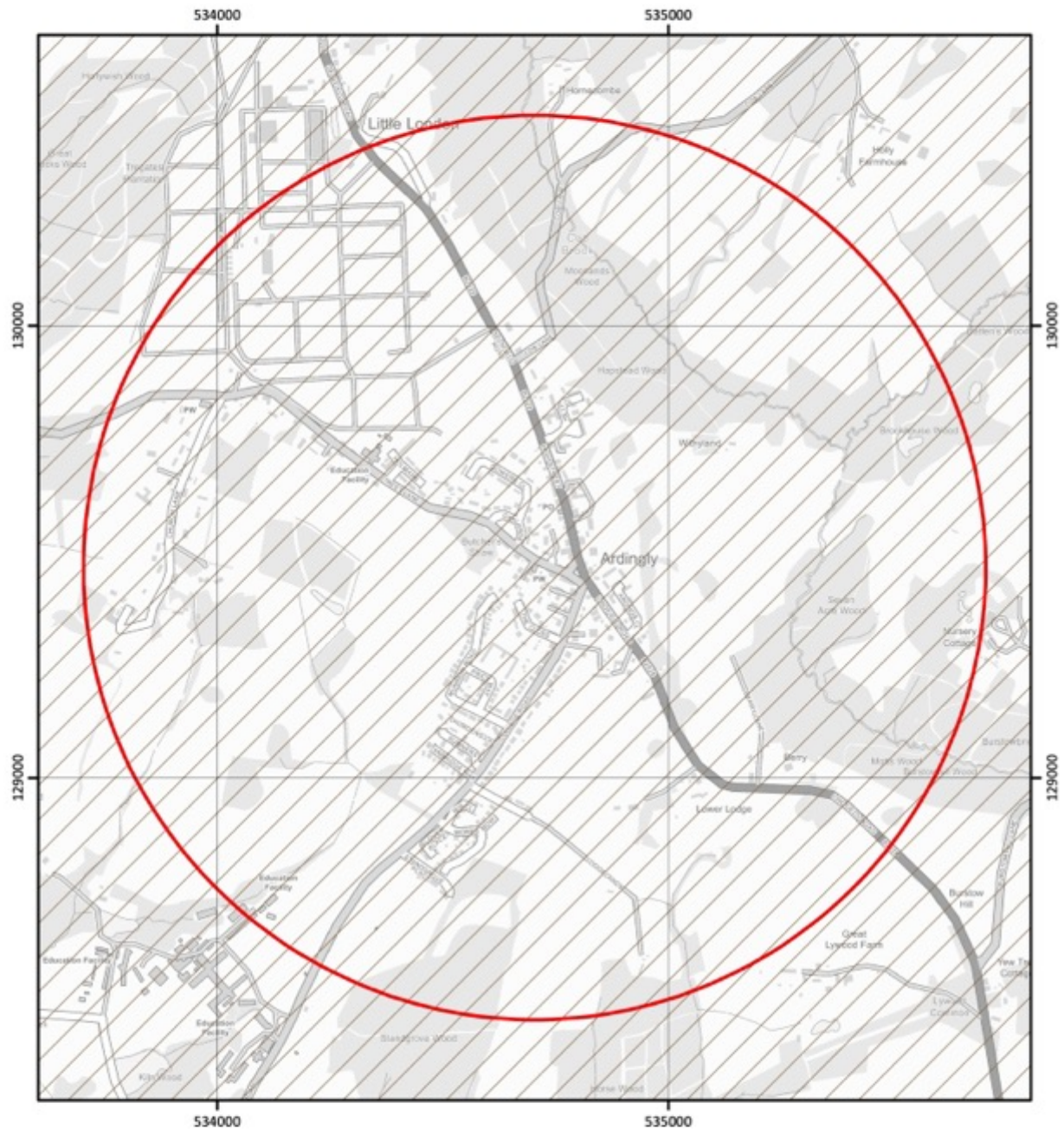


Appendix 4: Designated sites and NERC Act Section 41 habitats

Map 1: Statutory site designations

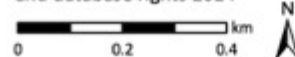
Land at Former Congregational Church, Ardingly + 1km radius

SxBRC/24/347 - 07/08/2024



Statutory designated site boundaries supplied by Natural England. Contains public sector information licensed under the Open Government Licence v3.0.

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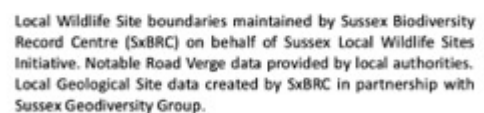


Key to Map:

-  Search area
- Area of Outstanding Natural Beauty

Sussex
Biodiversity
Record Centre

SxBRC/24/347 - 07/08/2024



 Search area

 Local Wildlife Site

Map 4: Section 41 habitats and other**Land at Former Congregational Church, Ardingly + 1km radius**

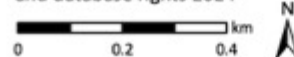
SxBR/24/347 - 07/08/2024

**Key to Map:**

- Search area
- Ancient or veteran tree
- Open Water
- Ghyll woodland
- Traditional orchard
- Ancient woodland
- Deciduous woodland

Ancient woodland, and section 41 habitat data supplied by Natural England. Contains public sector information licenced under the Open Government Licence v3.0. Additional contributors of habitat data include Sussex Wildlife Trust, South Downs Conservation Board, Environment Agency, Sussex Wetlands Landscapes Project, WSCC, RSPB, High Weald AONB Unit, Ancient Tree Hunt, and Tree Register of the British Isles.

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Appendix 5: SBRC species records

Table 1: Summary protected and designated species records (excluding bats and birds)

This table summarises records from 1980 onwards. See accompanying spreadsheet for detailed records.

See Table 2 for bat records, Table 3 for bird records and Table 4 for invasive non-native species.

Maximum abundance = highest total number of species recorded at one time.

N.B. Where 'Present' appears in abundance column, no single numerical figure for abundance was provided with the record.

Taxon name	Common name	International Designation	National Designation	Other Designation	Date of earliest record	Date of latest record	No. of records	Max. abundance
Amphibians								
<i>Bufo bufo</i>	Common Toad		WCA Sch5 s9.5a, NERC S41	UK BAP Priority	01/03/1993	24/06/2016	5	4
<i>Lissotriton helveticus</i>	Palmate Newt		WCA Sch5 s9.5a		03/04/2014	24/04/2014	12	34
<i>Lissotriton vulgaris</i>	Smooth Newt		WCA Sch5 s9.5a		01/07/2006	29/06/2017	4	1
<i>Rana temporaria</i>	Common Frog		WCA Sch5 s9.5a		11/05/2010	02/05/2014	6	2
<i>Triturus cristatus</i>	Great Crested Newt	Hab Dir A2 NP, Hab Dir A4	Hab Reg Sch2, WCA Sch5 s9.4b/s9.4c/s9.5a, NERC S41	UK BAP Priority	01/07/2006	16/06/2017	14	5
Fish - Bony								
<i>Anguilla anguilla</i>	European Eel		NERC S41	UK BAP Priority, RedList Global post2001 CR	06/07/1998	23/09/2003	2	51
<i>Cottus gobio</i>	Bullhead	Hab Dir A2 NP		Sussex Rare	01/01/1997	23/09/2003	3	17
<i>Salmo trutta</i>	Brown/Sea Trout		NERC S41	UK BAP Priority	06/07/1998	06/07/1998	1	1
Fungi								
<i>Hygrocybe aurantiosplendens</i>	Orange Waxcap			Sussex Rare	1997 - 1999	1997 - 1999	1	1
<i>Hygrocybe insipida</i>	Spangle Waxcap			Sussex Rare	1997 - 1999	1997 - 1999	1	1
<i>Podoscypha multizonata</i>	Zoned Rosette		NERC S41	UK BAP Priority, Sussex Rare	19/11/2023	19/11/2023	1	Present
<i>Tomasella gelatinosa</i>	A Fungus			Sussex Rare	1950 - 2002	1950 - 2002	1	1
Higher Plants - Ferns								
<i>Dryopteris aemula</i>	Hay-scented Buckler-fern			Sussex Rare	15/11/1984	09/11/1988	4	Present
<i>Osmunda regalis</i>	Royal Fern			Sussex Rare	02/08/2008	02/08/2008	1	1
Higher Plants - Flowering Plants								
<i>Briza media</i>	Quaking-grass			RedList ENG post2001 NT	2007	07/08/2012	11	1

The Sussex Biodiversity Record Centre must be acknowledged whenever data is cited from this report.

Taxon name	Common name	International Designation	National Designation	Other Designation	Date of earliest record	Date of latest record	No. of records	Max. abundance
<i>Calluna vulgaris</i>	Heather			RedList ENG post2001 NT	01/05/2004	01/05/2004	1	1
<i>Carex echinata</i>	Star Sedge			RedList ENG post2001 NT	25/06/2014	25/06/2014	1	1
<i>Carex vesicaria</i>	Bladder-sedge			RedList ENG post2001 VU	02/06/2011	02/06/2011	1	1
<i>Centaurea cyanus</i>	Cornflower		NERC S41	UK BAP Priority, Sussex Rare	02/06/2011	02/06/2011	1	1
<i>Cichorium intybus</i>	Chicory			RedList ENG post2001 VU	11/09/2011	11/09/2011	1	1
<i>Cruciata laevipes</i>	Crosswort			RedList ENG post2001 NT	28/08/2008	28/08/2008	1	1
<i>Erica cinerea</i>	Bell Heather			RedList ENG post2001 NT	02/06/2011	02/06/2011	1	1
<i>Erysimum cheiranthoides</i>	Treacle-mustard			RedList ENG post2001 NT	23/09/2008	23/09/2008	1	1
<i>Euphrasia officinalis subsp. anglica</i>	English Sticky Eyebright		NERC S41	UK BAP Priority, RedList GB post2001 EN, RedList ENG post2001 EN	1987 - 2000	1987 - 2000	1	1
<i>Fragaria vesca</i>	Wild Strawberry			RedList ENG post2001 NT	16/06/1982	16/06/2018	16	1
<i>Genista anglica</i>	Petty Whin			RedList GB post2001 NT, RedList ENG post2001 VU	04/08/1987	04/08/1987	1	Present
<i>Genista tinctoria</i>	Dyer's Greenweed			RedList ENG post2001 VU	04/08/1987	29/05/2008	2	11
<i>Genista tinctoria subsp. tinctoria</i>	A Flowering Plant			RedList ENG post2001 VU	01/05/2008	23/04/2012	4	1
<i>Hieracium acuminatum</i>	Tall Hawkweed			Nat Rare	1996	1996	1	1
<i>Hieracium aggregatum</i>	Aggregate-headed Hawkweed			Nat Rare	2004	11/09/2008	5	1
<i>Hieracium sabaudum</i>	Autumn Hawkweed			RedList ENG post2001 EN, RedList ENG post2001 NT	2004	11/08/2015	6	1
<i>Hyacinthoides non-scripta</i>	Bluebell		WCA Sch8		16/06/1982	04/07/2012	33	1
<i>Hydrocotyle vulgaris</i>	Marsh Pennywort			RedList ENG post2001 NT	20/06/2007	21/06/2007	2	1

The Sussex Biodiversity Record Centre must be acknowledged whenever data is cited from this report.

Taxon name	Common name	International Designation	National Designation	Other Designation	Date of earliest record	Date of latest record	No. of records	Max. abundance
<i>Impatiens noli-tangere</i>	Touch-me-not Balsam			Nat Scarce, Sussex Rare	03/09/2007	29/08/2021	5	30
<i>Jacobaea aquatica</i>	Marsh Ragwort			RedList ENG post2001 NT	21/06/2007	25/06/2014	5	2
<i>Knautia arvensis</i>	Field Scabious			RedList ENG post2001 NT	28/08/2008	28/08/2008	1	1
<i>Lathraea clandestina</i>	Purple Toothwort			Sussex Rare	1987 - 2000	20/02/2024	9	50
<i>Lathyrus linifolius</i>	Bitter-vetch			RedList ENG post2001 NT	04/08/1987	18/05/2013	7	1
<i>Littorella uniflora</i>	Shoreweed			Sussex Rare	1987 - 2000	07/08/2023	15	1
<i>Mentha arvensis</i>	Corn Mint			RedList ENG post2001 NT	27/06/1995	20/07/2009	7	1
<i>Mentha pulegium</i>	Pennyroyal		WCA Sch8, NERC S41	UK BAP Priority, RedList GB post2001 EN, RedList ENG post2001 CR, Nat Scarce, Sussex Rare	1987 - 2000	07/08/2023	9	1
<i>Myosurus minimus</i>	Mousetail			RedList GB post2001 VU, RedList ENG post2001 VU, Sussex Rare	1986	1986	1	1
<i>Orchis laxiflora</i>	Loose-flowered Orchid			Sussex Rare	1993	01/10/2016	4	1
<i>Oxalis acetosella</i>	Wood-sorrel			RedList ENG post2001 NT	15/11/1984	01/05/2018	22	1
<i>Oxalis dillenii</i>	Sussex Yellow-sorrel			Sussex Rare	16/06/2018	16/06/2018	1	1
<i>Pedicularis sylvatica</i>	Lousewort			RedList ENG post2001 VU	01/07/2009	07/08/2012	4	5
<i>Potentilla erecta</i>	Tormentil			RedList ENG post2001 NT	16/06/1982	22/05/2019	37	7
<i>Ranunculus flammula</i>	Lesser Spearwort			RedList ENG post2001 VU	16/06/1982	16/05/2019	27	4
<i>Salix repens</i>	Creeping Willow			RedList ENG post2001 NT	04/08/1987	01/07/2010	2	1
<i>Sanicula europaea</i>	Sanicle			RedList ENG post2001 NT	01/05/2004	18/05/2013	6	1
<i>Serapias lingua</i>	Tongue-orchid			RedList GB post2001 CR	01/06/2015	01/06/2015	1	1
<i>Silene flos-cuculi</i>	Ragged-Robin			RedList ENG post2001 NT	16/06/1982	25/06/2014	22	11

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<i>Solidago virgaurea</i>	Goldenrod			RedList ENG post2001 NT	16/06/1982	05/09/2023	10	1
<i>Spergula arvensis</i>	Corn Spurrey			RedList GB post2001 VU, RedList ENG post2001 VU	2004	2004	2	1
<i>Succisa pratensis</i>	Devil's-bit Scabious			RedList ENG post2001 NT	25/07/1982	25/06/2014	19	4
<i>Valeriana dioica</i>	Marsh Valerian			RedList ENG post2001 NT	16/04/1991	16/04/1991	1	Present
<i>Valeriana officinalis</i>	Common Valerian			RedList ENG post2001 NT	22/04/1991	12/05/2009	9	1
<i>Veronica officinalis</i>	Heath Speedwell			RedList ENG post2001 NT	16/06/1982	13/05/2012	10	1
<i>Veronica scutellata</i>	Marsh Speedwell			RedList ENG post2001 NT	21/06/2007	21/06/2007	1	1
<i>Viola canina</i>	Heath Dog-violet			RedList GB post2001 NT, RedList ENG post2001 VU	24/05/1990	1996	2	1
<i>Wahlenbergia hederacea</i>	Ivy-leaved Bellflower			RedList GB post2001 NT, RedList ENG post2001 NT	18/06/2004	18/06/2004	2	1
Invertebrates - Ants, Bees, Sawflies & Wasps								
<i>Lasioglossum malachurum</i>	Sharp-collared Furrow Bee			Notable B, Sussex Rare	27/04/1996	18/07/1996	4	Present
<i>Nomada fucata</i>	Painted Nomad Bee			Notable A, Sussex Rare	27/04/1996	27/04/1996	1	Present
<i>Osmia pilicornis</i>	Fringe-horned Mason Bee			Notable A, Sussex Rare	08/05/1994	08/05/1994	3	Present
Invertebrates - Beetles								
<i>Acritus homoeopathicus</i>	A Beetle			RedList GB post2001 VU, Nat Rare, Sussex Rare	10/05/1993	10/05/1993	1	1
<i>Agonum sexpunctatum</i>	A Beetle			Nat Scarce, Sussex Rare	10/05/1993	10/05/1993	2	1
<i>Agriolus biguttatus</i>	Oak Jewel Beetle			Sussex Rare	24/05/1992	24/05/1992	1	1
<i>Anoplus raboris</i>	A Beetle			Notable B, Sussex Rare	13/05/1991	13/05/1991	1	1
<i>Asaphidion stierlini</i>	A Beetle			Sussex Rare	10/05/1993	10/05/1993	1	1
<i>Bembidion obliquum</i>	A Beetle			Nat Scarce, Sussex Rare	1991	27/04/1996	8	1
<i>Dasygnypeta velata</i>	A Beetle			Notable, Sussex Rare	06/06/1991	06/06/1991	1	1
<i>Dianous coeruleus</i>	A Beetle			Sussex Rare	10/05/1993	10/05/1993	1	1
<i>Elodes pseudominutus</i>	A Beetle			Nat Scarce	12/05/1990	12/05/1990	1	1

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<i>Gauropterus fulgidus</i>	A Beetle			Sussex Rare	02/06/2011	02/06/2011	1	1
<i>Lebia chlorocephala</i>	A Beetle			Nat Scarce, Sussex Rare	1991	1991	3	1
<i>Magdalis carbonaria</i>	A Beetle			Notable B, Sussex Rare	13/05/1991	13/05/1991	1	1
<i>Meligethes gagathinus</i>	A Beetle			Notable, Sussex Rare	06/06/1991	27/09/1991	2	1
<i>Notaris scirpi</i>	A Beetle			Notable B, Sussex Rare	06/06/1991	06/06/1991	1	1
<i>Notiophilus quadripunctatus</i>	A Beetle			Nat Scarce, Sussex Rare	06/06/1991	06/06/1991	2	1
<i>Pachytodes cerambyciformis</i>	A Beetle			Sussex Rare	02/06/2011	02/06/2011	1	1
<i>Phyllotreta vittula</i>	Barley Flea Beetle			Sussex Rare	13/05/1991	06/06/1991	2	1
<i>Prionocyphon serricornis</i>	A Beetle			Sussex Rare	08/09/2000	08/09/2000	1	1
<i>Pseudovadonia livida</i>	A Beetle			Sussex Rare	23/07/2021	23/07/2021	1	1
<i>Pyrochroa coccinea</i>	Black-headed Cardinal Beetle			Sussex Rare	10/05/1993	08/05/1994	2	1
<i>Uleiota planatus</i>	A Beetle			Notable A, Sussex Rare	23/10/2007	23/10/2007	1	1
<i>Variimorda villosa</i>	A Beetle			Nat Scarce, Sussex Rare	18/07/1996	18/07/1996	2	1
<i>Xyleborus dryographus</i>	Ambrosia Beetle			Notable B, Sussex Rare	24/05/1992	24/05/1992	1	4
Invertebrates - Butterflies								
<i>Apatura iris</i>	Purple Emperor		WCA Sch5 s9.5a	RedList GB post2001 NT, Sussex Rare	1996 - 2000	25/07/2022	22	2
<i>Coenonympha pamphilus</i>	Small Heath		NERC S41	UK BAP Priority, RedList GB post2001 NT	1995	01/07/2012	15	2
<i>Erynnis tages</i>	Dingy Skipper		NERC S41	UK BAP Priority, RedList GB post2001 VU	1995	05/06/2023	46	17
<i>Lasiommata megera</i>	Wall		NERC S41	UK BAP Priority, RedList GB post2001 NT	1996	1996	1	1
<i>Limenitis camilla</i>	White Admiral		NERC S41	UK BAP Priority, RedList GB post2001 VU	16/06/1982	28/07/2023	140	6
<i>Plebejus argus</i>	Silver-studded Blue		WCA Sch5 s9.5a, NERC S41	UK BAP Priority, RedList GB post2001 VU, Sussex Rare	28/07/2004	28/07/2004	1	1
<i>Polyommatus coridon</i>	Chalk Hill Blue		WCA Sch5 s9.5a	RedList GB post2001 NT	1995	04/09/2003	5	3
<i>Pyrgus malvae</i>	Grizzled Skipper		NERC S41	UK BAP Priority, RedList GB post2001 VU	1996	17/06/1998	3	1
Invertebrates - Dragonflies & Damselflies								
<i>Cordulia aenea</i>	Downy Emerald			Sussex Rare	09/06/2007	04/07/2019	2	3
<i>Erythromma viridulum</i>	Small Red-eyed Damselfly			Sussex Rare	09/08/2023	09/08/2023	1	Present

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<i>Somatochlora metallica</i>	Brilliant Emerald Dragonfly			RedList GB post2001 VU, Sussex Rare	26/06/1993	04/07/2019	2	1
<i>Sympetrum striolatum</i>	Common Darter			RedList GB post2001 DD	01/08/1995	22/08/2023	16	1
Invertebrates - Grasshoppers & Crickets								
<i>Conocephalus fuscus</i>	Long-winged Cone-head			Sussex Rare	13/07/2020	13/07/2020	1	1
<i>Roeseliana roeselii</i>	Roesel's Bush-cricket			Sussex Rare	04/07/2012	05/06/2019	4	11
Invertebrates - Molluscs								
<i>Ashfordia granulata</i>	Silky Snail			Sussex Rare	1980 - 1990	1980 - 1990	1	1
<i>Leiostryla (Leiostryla) anglica</i>	English Chrysalis Snail			Sussex Rare	1989	1989	1	1
<i>Limax cinereoniger</i>	Ash-black Slug			Sussex Rare	25/03/2007	25/03/2007	1	2
<i>Macrogastra (Pseudoveestia) rolphii</i>	Rolph's Door Snail			Nat Scarce	25/03/2007	25/03/2007	2	1
<i>Phenacolumax major</i>	Greater Semi-slug			Nat Scarce, Sussex Rare	25/03/2007	25/03/2007	2	2
<i>Spermodea lamellata</i>	Plated Snail			Sussex Rare	1989	1989	1	1
Invertebrates - Moths								
<i>Acronicta rumicis</i>	Knot Grass		NERC S41	UK BAP Priority	14/04/2022 - 14/09/2022	14/04/2022 - 14/09/2022	1	23
<i>Allophyes oxyacanthae</i>	Green-brindled Crescent		NERC S41	UK BAP Priority	11/10/2022 - 26/10/2022	11/10/2022 - 26/10/2022	1	24
<i>Amphipoea oculatea</i>	Ear Moth		NERC S41	UK BAP Priority	03/08/2022 - 16/08/2022	25/08/2022	2	4
<i>Apamea remissa</i>	Dusky Brocade		NERC S41	UK BAP Priority	29/06/2022	20/07/2022	2	2
<i>Aporophyla luteola</i>	Deep-brown Dart		NERC S41	UK BAP Priority	07/09/2022 - 12/10/2022	07/09/2022 - 12/10/2022	1	27
<i>Asteroscopus sphinx</i>	Sprawler		NERC S41	UK BAP Priority	25/10/2022 - 19/11/2022	25/10/2022 - 19/11/2022	1	12
<i>Atethmia centruga</i>	Centre-barred Sallow		NERC S41	UK BAP Priority	25/08/2022	25/09/2022	4	5
<i>Brachyolmia viminalis</i>	Minor Shoulder-knot		NERC S41	UK BAP Priority	05/07/2022	08/07/2022	2	1
<i>Calophasia lunula</i>	Toadflax Brocade			RedList GB Pre94 R, Sussex Rare	25/08/2023	25/08/2023	1	1
<i>Caradrina morpheus</i>	Mottled Rustic		NERC S41	UK BAP Priority	12/06/2022 - 23/07/2022	12/06/2022 - 23/07/2022	1	12
<i>Catocala promissa</i>	Light Crimson Underwing		NERC S41	UK BAP Priority, RedList GB Pre94 R, Sussex Rare	17/08/2022	17/08/2022	1	1

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<i>Chloroclysta siterata</i>	Red-green Carpet			Sussex Rare	04/04/2022 - 27/05/2022	14/09/2022 - 30/11/2022	2	93
<i>Cirrhia icteritia</i>	Sallow		NERC S41	UK BAP Priority	17/09/2022 - 18/10/2022	17/09/2022 - 18/10/2022	1	8
<i>Cyclophora annularia</i>	Mocha			Sussex Rare	02/05/2022 - 26/08/2022	02/05/2022 - 26/08/2022	1	6
<i>Diarsia rubi</i>	Small Square-spot		NERC S41	UK BAP Priority	10/05/2022 - 14/08/2022	25/08/2022	2	29
<i>Ecliptopera silaceata</i>	Small Phoenix		NERC S41	UK BAP Priority	27/07/2012	14/07/2022 - 26/08/2022	3	16
<i>Eilema sororcula</i>	Orange Footman			Sussex Rare	09/05/2022 - 10/06/2022	09/05/2022 - 10/06/2022	1	7
<i>Ennomos fuscantaria</i>	Dusky Thorn		NERC S41	UK BAP Priority	29/07/2017	14/07/2022 - 20/09/2022	2	29
<i>Eudonia delunella</i>	Pied Grey			Notable B, Sussex Rare	08/06/2022	08/06/2022	1	1
<i>Eudonia pallida</i>	Marsh Grey			Sussex Rare	04/06/2022	04/06/2022	1	1
<i>Eugnorisma glareosa</i>	Autumnal Rustic		NERC S41	UK BAP Priority	01/10/2022 - 17/10/2022	01/10/2022 - 17/10/2022	1	3
<i>Evergestis pallidata</i>	Chequered Pearl			Sussex Rare	27/07/2012	30/07/2022	3	1
<i>Furcula bicuspis</i>	Alder Kitten			Sussex Rare	17/05/2022	17/05/2022	1	2
<i>Hepialus humuli</i>	Ghost Moth		NERC S41	UK BAP Priority	26/06/2022	26/06/2022	1	1
<i>Hoplodrina blanda</i>	Rustic		NERC S41	UK BAP Priority	26/06/2022 - 07/09/2022	26/06/2022 - 07/09/2022	1	1
<i>Hydraecia micacea</i>	Rosy Rustic		NERC S41	UK BAP Priority	29/07/2022 - 18/10/2022	29/07/2022 - 18/10/2022	2	15
<i>Hypomecis roboraria</i>	Great Oak Beauty			Sussex Rare	02/06/2022 - 06/07/2022	02/06/2022 - 06/07/2022	1	8
<i>Leucania comma</i>	Shoulder-striped Wainscot		NERC S41	UK BAP Priority	26/05/2022 - 05/07/2022	26/05/2022 - 05/07/2022	1	29
<i>Lycia hirtaria</i>	Brindled Beauty		NERC S41	UK BAP Priority	11/03/2022 - 09/05/2022	11/03/2022 - 09/05/2022	1	35
<i>Meganola albula</i>	Kent Black Arches			Sussex Rare	27/07/2012	27/07/2012	1	2
<i>Melanarcha persicariae</i>	Dot Moth		NERC S41	UK BAP Priority	27/07/2012	08/07/2022	2	1
<i>Morophaga choragella</i>	Large Clothes			Sussex Rare	22/07/2022	22/07/2022	1	1
<i>Mythimna l-album</i>	L-album Wainscot			Sussex Rare	27/09/2022 - 12/10/2022	27/09/2022 - 12/10/2022	1	4

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<i>Mythimna pallens</i>	Common Wainscot			Sussex Rare	04/09/2018	02/06/2022 - 31/08/2022	3	47
<i>Nephopterix angustella</i>	Spindle Knot-horn			Notable B, Sussex Rare	13/06/2022	14/08/2022	2	1
<i>Orthosia gracilis</i>	Powdered Quaker		NERC S41	UK BAP Priority	19/04/2022 - 03/05/2022	19/04/2022 - 03/05/2022	1	6
<i>Parascotia fuliginaria</i>	Waved Black			Sussex Rare	27/07/2012	17/07/2022	3	2
<i>Perizoma albulata</i>	Grass Rivulet			UK BAP Priority, Sussex Rare	12/06/2022	12/06/2022	1	1
<i>Pexicopia malvella</i>	Hollyhock Seed Moth			Notable B, Sussex Rare	03/07/2022	03/07/2022	1	1
<i>Scotopteryx chenopodiata</i>	Shaded Broad-bar		NERC S41	UK BAP Priority	20/07/2022	20/07/2022	1	1
<i>Spilosoma lubricipeda</i>	White Ermine		NERC S41	UK BAP Priority	03/05/2022 - 13/06/2022	03/05/2022 - 13/06/2022	1	30
<i>Spilosoma lutea</i>	Buff Ermine		NERC S41	UK BAP Priority	05/06/2022 - 09/08/2022	05/06/2022 - 09/08/2022	1	58
<i>Stigmella aceris</i>	Scarce Maple Pigmy			Sussex Rare	07/10/2023	07/10/2023	1	1
<i>Thera cypressata</i>	Cypress Carpet			Sussex Rare	26/10/2022	26/10/2022	1	1
<i>Tholera decimalis</i>	Feathered Gothic		NERC S41	UK BAP Priority	26/08/2022 - 10/09/2022	26/08/2022 - 10/09/2022	1	15
<i>Timandra comae</i>	Blood-vein		NERC S41	UK BAP Priority	04/07/2012	18/05/2022 - 19/09/2022	2	7
<i>Tyria jacobaeae</i>	Cinnabar		NERC S41	UK BAP Priority	11/06/2022	21/06/2022	2	2
<i>Watsonalla binaria</i>	Oak Hook-tip		NERC S41	UK BAP Priority	09/05/2022	18/09/2022	4	1
<i>Yponomeuta sedella</i>	Grey Ermine			Sussex Rare	23/07/2022	23/07/2022	1	1
Invertebrates - Spiders								
<i>Argiope bruennichi</i>	Wasp Spider			Sussex Rare	17/08/2023	17/08/2023	1	1
<i>Centromerus serratus</i>	Serrated Tongue-spider		NERC S41	UK BAP Priority, RedList GB post2001 EN, Nat Rare	01/06/1991	01/06/1991	1	1
<i>Coelotes terrestris</i>	A Spider			Nat Scarce, Sussex Rare	01/05/1991	01/05/1991	1	1
<i>Marpissa muscosa</i>	A Spider			Nat Scarce, Sussex Rare	27/06/2018	27/06/2018	1	1
<i>Pardosa saltans</i>	A Spider			Nat Scarce	01/05/1991	01/06/1991	2	1
<i>Trematocephalus cristatus</i>	A Spider			Nat Scarce, Sussex Rare	01/06/1991	01/06/1991	1	1
<i>Walckenaeria dysderoides</i>	A Spider			Nat Scarce	01/05/1991	01/05/1991	1	1
<i>Walckenaeria incisa</i>	A Spider			Nat Scarce	01/06/1991	01/06/1991	1	1
<i>Zilla diodia</i>	A Spider			Sussex Rare	09/10/2022	09/10/2022	1	1

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Invertebrates - True Flies								
<i>Lipsothrix nervosa</i>	Southern Yellow Splinter		NERC S41	UK BAP Priority	07/06/1996	07/06/1996	1	1
<i>Ptychoptera longicauda</i>	A True Fly			Nat Scarce, Sussex Rare	07/06/1996	07/06/1996	1	1
<i>Rhingia rostrata</i>	A True Fly			Sussex Rare	13/05/2017	13/05/2017	1	1
Lichens								
<i>Bellicidia incompta</i>	A Lichen		NERC S41	Nat Rare, RedList GB post2001 DD, UK BAP Priority	1990	1990	1	1
<i>Buellia disciformis</i>	A Lichen			Sussex Rare	04/09/2004	04/09/2004	1	1
<i>Bunodoporon melanocarpum</i>	A Lichen			Sussex Rare	18/03/1986	18/03/1986	1	Present
<i>Cladonia caespiticia</i>	A Lichen			Sussex Rare	1950 - 1995	1950 - 1995	3	1
<i>Cladonia coccifera s. lat.</i>	Scarlet-Cup Lichen			RedList GB post2001 DD, Nat Scarce	09/11/1988	09/11/1988	1	1
<i>Cladonia glauca</i>	A Lichen			Sussex Rare	09/11/1988	09/11/1988	1	Present
<i>Cladonia humilis</i>	A Lichen			Sussex Rare	09/11/1988	09/11/1988	1	1
<i>Cladonia incassata</i>	A Lichen			Nat Scarce, Sussex Rare	18/03/1986	17/04/1991	3	Present
<i>Cystocoleus ebeneus</i>	A Lichen			Sussex Rare	18/03/1986	18/03/1986	1	Present
<i>Lecanora alboflavida</i>	A Lichen			Nat Scarce, Sussex Rare	04/09/2004	04/09/2004	1	1
<i>Leprocaulon quisquiliare</i>	A Lichen			Sussex Rare	15/11/1984	05/02/1993	2	1
<i>Micarea pycnidophora</i>	A Lichen			Nat Scarce, Sussex Rare	18/03/1986	18/03/1986	1	Present
<i>Scytinium teretiusculum</i>	A Lichen			Sussex Rare	01/02/1993	01/02/1993	1	1
<i>Varicellaria hemisphaerica</i>	A Lichen			Nat Scarce, RedList GB post2001 VU	15/11/1984	04/09/2004	4	1
Lower Plants - Hornworts								
<i>Anthoceros punctatus</i>	Dotted Hornwort			Sussex Rare	21/11/2013	13/11/2014	2	1
Lower Plants - Liverworts								
<i>Bazzania trilobata</i>	Greater Whipwort			Sussex Rare	15/11/1984	13/11/2014	8	1
<i>Blasia pusilla</i>	Common Kettlewort			Sussex Rare	1988	16/04/1991	4	1
<i>Calypogeia integristipula</i>	Meylan's Pouchwort			Sussex Rare	20/03/1986	15/10/1994	6	Present
<i>Cephalozia catenulata</i>	Chain Pincerwort			Sussex Rare	16/07/1988	09/11/1988	3	1
<i>Lophocolea bispinosa</i>	Great Crestwort			Sussex Rare	13/11/2014	13/11/2014	1	1
<i>Scapania umbrasa</i>	Shady Earwort			Sussex Rare	18/02/1994	2010	3	1
Lower Plants - Mosses								

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<i>Chionoloma tenuirostre</i>	Narrow-fruited Crisp-moss			Sussex Rare	1993	1993	1	1
<i>Dicranodontium denudatum</i>	Beaked Bow-moss			Sussex Rare	1995	1995	1	1
<i>Fissidens viridulus</i>	Green Pocket-moss			Sussex Rare	19/12/2013	19/12/2013	1	1
<i>Orthodontium gracile</i>	Slender Thread-moss		NERC S41	UK BAP Priority, Nat Rare, Sussex Rare	18/03/1986	18/02/1994	2	Present
<i>Weissia rastellata</i>	Beaked Beardless-moss			Sussex Rare	15/10/2013	15/10/2013	1	1
Mammals - Marine								
<i>Tursiops truncatus</i>	Bottle-Nosed Dolphin	Hab Dir A2 NP, Hab Dir A4	Hab Reg Sch2, WCA Sch5 s9.4a/s9.5a, NERC S41	UK BAP Priority	05/10/2015	05/10/2015	1	18
Mammals - Terrestrial (excl. bats)								
<i>Arvicola amphibius</i>	European Water Vole		WCA Sch5 s9.4a/s9.4b/s9.4c, NERC S41	UK BAP Priority, RedList GB post2001 EN, Sussex Rare	01/08/2009	01/08/2009	1	1
<i>Erinaceus europaeus</i>	West European Hedgehog		NERC S41	UK BAP Priority, RedList GB post2001 VU	2005	31/08/2018	17	4
<i>Lepus europaeus</i>	Brown Hare		NERC S41	UK BAP Priority	25/03/2012	25/03/2012	1	1
<i>Micromys minutus</i>	Harvest Mouse		NERC S41	UK BAP Priority, RedList GB post2001 NT	04/10/2019	17/10/2022	5	1
<i>Muscardinus avellanarius</i>	Hazel Dormouse	Hab Dir A4	Hab Reg Sch2, WCA Sch5 s9.4b/s9.4c/s9.5a, NERC S41	UK BAP Priority, RedList GB post2001 VU	05/11/1993	22/10/2021	523	23
<i>Oryctolagus cuniculus</i>	European Rabbit			RedList Global post2001 NT	22/04/1991	05/10/2020	15	2
Reptiles								
<i>Anguis fragilis</i>	Slow-worm		WCA Sch5 s9.1/s9.1 kill/s9.5a, NERC S41	UK BAP Priority	2006	02/05/2014	21	4
<i>Natrix helvetica</i>	Grass Snake		WCA Sch5 s9.1/s9.1 kill/s9.5a, NERC S41	UK BAP Priority	28/03/1995	14/07/2011	7	4

The Sussex Biodiversity Record Centre must be acknowledged whenever data is cited from this report.