



# Botley West Solar Farm

Environmental Statement

**Volume 3**

**Appendix 9.1: Desk Study**

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## Approval for Issue

Jonathan Alsop

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## Glossary

Term	Meaning
The Applicant	SolarFive Ltd (SolarFive)
The Project	Botley West Solar Farm
The Study Area	The Study Area for the ecology desk study, which describes the geographical extent within which information was sought, comprises the Project site plus buffer zones for specific data sets described in paragraph 1.2.1.
The Developer: Photovolta Development Partners GmbH	Photovolta Development Partners GmbH (PVDP).
Priority Habitats	Habitats listed as being of principal importance for conservation in England under Section 41 of the Natural Environment and Rural Communities Act 2006.
Priority Species	Species listed as being of principal importance for conservation in England under Section 41 of the Natural Environment and Rural Communities Act 2006.

## Abbreviations

Abbreviation	Meaning
ASNW	Ancient semi-natural woodland
BoCC Amber	Birds of Conservation Concern Amber List (species moderate conservation concern)
BoCC Red	Birds of Conservation Concern Red List (species high conservation concern)
BBOWT	Berks, Bucks and Oxon Wildlife Trust
BDir1	Annex 1 of the EC Birds Directive
CTA	Conservation Target Area
DWS	District Wildlife Site
ES	Environmental Statement
Fungi-Red-CR	Red Data List of Threatened British Fungi (preliminary assessment) following IUCN 2001 guidelines - Critically Endangered.
Fungi-Red-NT	Red Data List of Threatened British Fungi (preliminary assessment) following IUCN 2001 guidelines - Near Threatened
Fungi-Red-VU	Red Data List of Threatened British Fungi (preliminary assessment) following IUCN 2001 guidelines – Vulnerable.
HDir-A2np	Animal and plant species listed on Annex 2 of the EC Habitats Directive as being endangered, vulnerable, rare or endemic and requiring the designation of special areas of conservation (See also HReg 4)

Abbreviation	Meaning
HDir2	Animal and plant species listed on Annex 2 of the EC Habitats Directive as being endangered and requiring the designation of special areas of conservation (See also HReg 4)
HDir4	Animal and plant species listed on Annex 4 of the EC Habitats Directive as requiring strict protection (See also HReg 4)
HDir5	Animal and plant species who taking in the wild and exploitation may be subject to management measures.
HReg2	Animal and plant species listed under Annex 4 of the EC Habitats directive and transposed into UK law in Schedule 2 of the Conservation of Habitats and Species Regulations 2017 (as amended)
INNS-Other-2015	Species listed on the 2014 Environment Agency list of Invasive Species.
INNS-Priority-2015	Species listed on the 2014 Environment Agency list of Invasive Species as affecting EA interest with high priority
INNS-Rapid-2015	Species listed on the 2014 Environment Agency list of Invasive Species as being very invasive but not yet established.
LNR	Local Nature Reserve
LWS	Local Wildlife Site
MAGIC	Multi-agency Geographic Information for the Countryside website
N	Nationally Notable (invertebrates) (occurring in between 16 and 100 hectads)
N-A	Nationally Notable A (invertebrates) (occurring in fewer than 30 hectads)
N-B	Nationally Notable B (invertebrates) (uncommon in Britain - occurring in 31 to 100hectads)
NE	Natural England
NERC	Natural Environment and Rural Communities (Act) 2006
NIA	Nature Improvement Area
NNR	Nation Nature Reserve
NR	Nationally Rare (occurring in 15 of fewer hectads)
NS	Nationally Scarce (occurring in between 16 and 100 hectads)
Oxon-R	Oxfordshire Rare Plants Register rare species
Oxon-S	Oxfordshire Rare Plants Register scarce species
PAWS	Plantation on Ancient Woodland Site.
PBA	Protection of Badgers Act 1992
PDWS	Potential District Wildlife Site
PLWS	Potential Local Wildlife Site.
PVDP	Photovolta Development Partners GmbH

Abbreviation	Meaning
RL-ENG-post2001-CR	Species listed as critically endangered on the England post-2001 Red List
RL-ENG-post2001-DD	Species listed on the England post-2001 Red List but for which there is insufficient data to assign a risk category.
RL-ENG-post2001-EN	Species listed as endangered on the England post-2001 Red List
RL-ENG-post2001-NT	Species listed as near-threatened on the England post-2001 Red List
RL-ENG-post2001-VU	Species listed as vulnerable on the England post-2001 Red List
R	Great Britain Red List species (pre 1994 and post 2001) at risk but not presently vulnerable or endangered.
RL-GB-pre94-EN	Species listed as endangered on the Great Britain pre-1994 Red List
RL-GB-pre94-Inde	Great Britain Red List species listed on the pre 1994 red list and known to be endangered, rare or vulnerable but with insufficient data to place into one of these categories.
RL-GB-pre94-Insu	Great Britain Red List species listed on the pre 1994 red list and for which there is insufficient data to assess threat.
RL-GB-pre94-NT	Species listed as near-threatened on the Great Britain pre-1994 Red List
RL-GB-pre94-R	Species listed as rare on the Great Britain pre-1994 Red List
RL-GB-pre94-VU	Species listed as vulnerable on the Great Britain pre-1994 Red List
RL-GB-post2001-DD	Species listed on the Great Britain post-2001 Red List but for which there is insufficient data to assign a risk category.
RL-GB-post2001-EN	Species listed as endangered on the Great Britain post-2001 Red List
RL-GB-post2001-NT	Species listed as near-threatened on the Great Britain post-2001 Red List
RL-GB-post2001-VU	Species listed as vulnerable on the Great Britain post-2001 Red List
RL-Global-post2001-CR	Species listed as critically endangered on the Global post 2001 Red List of the International Union for Conservation of Nature (IUCN)
RL-Global-post2001-DD	Species listed on the Global post 2001 Red List of the International Union for Conservation of Nature (IUCN) but for which there is insufficient data to assign a risk category.
RL-Global-post2001-EN	Species listed as endangered on the Global post 2001 Red List of the International Union for Conservation of Nature (IUCN)
RL-Global-post2001-NT	Species listed as near threatened on the Global post 2001 Red List of the International Union for Conservation of Nature (IUCN)
RL-Global-post2001-VU	Species listed as vulnerable on the Global post 2001 Red List of the International Union for Conservation of Nature (IUCN)
RSPB	Royal Society for the Protection of Birds

Abbreviation	Meaning
S41	Species listed as being of principal importance for conservation in England under Section 41 of the Natural environment and rural communities act 2006.
SAC	Special Area of Conservation
SoSC	Specie of Special Concern – invasive species listed under the Invasive Non-native Species Regulations (amendment etc) (EU Exit) Regulation 2019.
SPA	Special Protection Area
SSSI	Site of Special Scientific Interest
TVERC	Thames Valley Environmental Records Centre.
WCA1	Wild birds listed on schedule 1 of the Wildlife and countryside Act 1981 (as amended) subject to additional protection from the disturbance at the nest or with dependent young.
WCA5	Animal species protected from intentional killing injuring or taking under schedule 5 of the Wildlife and Countryside Act 1981 (as amended) .
WCA8	Plant species listed on Schedule 8 of the Wildlife and Countryside Act 1981 (as amended) and protected from intentional picking uprooting or destruction.
WCA9	Invasive non-native animal and plant species listed on Schedule 9 of the Wildlife and Countryside Act 1981 (as amended).

## Units

Unit	Description
km	Kilometres
Ha	Hectares

# 1 Introduction

1.1.1 This Appendix of the Environmental Statement (ES) has been prepared by RPS on behalf of Photovolt Development Partners GmbH. (PVDP) for the Applicant, SolarFive Ltd. (SolarFive).

1.1.2 The purpose of this technical report is to present the methodology and results of the desk study for the Project. The results of this desk study have been used to inform Chapter 9: Ecology and Nature Conservation in Volume 1 of the ES [EN010147/APP/6.3].

# 2 Methodology

## Study Area

2.1.1 The Study Area for the ecology desk study, which describes the geographical extent within which information was sought, comprises the Project site plus buffer zones for specific data sets as follows:

- 10 km for internationally designated sites: Special Areas of Conservation (SAC), Special Protection Areas (SPA) and Ramsar sites;
- 5 km for nationally designated sites: Sites of Special Scientific Interest (SSSIs) and National Nature Reserves (NNRs);
- 2 km for non-statutory designated sites, including Local Nature Reserves (LNRs), Local Wildlife Sites (LWSs) proposed Local Wildlife Sites (PLWSs), Conservation Target Area (CTA), District Wildlife Site (DWS), potential District Wildlife Sites (PDWS) and Berks Bucks and Oxon Wildlife Trust (BBOWT) Reserves, and relevant areas designated in Local Plans;
- 2 km for records of protected or notable species and species of principal importance for conservation in England under Section 41 of the Natural Environment and Rural Communities (NERC) Act 2006 (priority species), including invasive non-native species but excluding bats and otter;
- 10 km for records of bats;
- 5 km for records of otter;
- 2 km for priority habitats;
- 2 km for Ancient woodland on the Natural England (NE) Ancient Woodland Inventory; and
- 50 m for trees listed on the Woodland Trust Ancient Tree Inventory.



2.1.2 The location and geographic extent of the Project desk Study Area, including the buffer distances identified above is shown with the results in Annex A.

## Sources of information

- 2.1.3 Historical data for the ecology desk Study Area was requested from the Thames Valley Environmental Records Centre (TVERC) in February 2024 for statutory and non-statutory designated sites, ancient woodlands, S41 habitats and S41 species, legally protected species and other species of conservation interest or concern, and invasive non-native species.
- 2.1.4 Supplementary information on statutory designated sites was obtained from the Multi Agency Geographic Information for the Countryside (MAGIC) interactive mapping system (2024) and the Joint Nature Conservation Committee (JNCC) website.
- 2.1.5 Information on green infrastructure and other areas designated in Local plans was requested from Cherwell District Council, West Oxfordshire district Council and Vale of White Horse District Council.
- 2.1.6 Information on ancient veteran and notable trees was obtained from the Woodland Trust Ancient Tree Inventory (Woodland Trust).
- 2.1.7 Standard industry practice accepts that ecological data becomes less reliable over time, therefore only species records from the last ten years has been included in the desk study.
- 2.1.8 The desk study was undertaken in accordance with the relevant guidance provided by Chartered Institute of Ecology and Environmental Management (CIEEM, 2017).

## Relevant legislation, policy and published lists

### Designated Sites

- 2.1.9 Nature conservation designated sites comprise any of the following:
- SACs, and SPAs and SACs and SPAs designated under The Conservation of Habitats and Species Regulations 2017 (as amended) as well as candidate SACs and SPAs;
  - Ramsar Sites identified and designated under the Convention on Wetlands of International Importance;
  - SSSIs, NNRs designated under the Wildlife and Countryside Act 1981 (as amended);
  - LNRs designated under the National Parks and Access to the Countryside Act 1949 (as amended);
  - Non-statutory designations (LWS, PLWS, DWS, PDWS, CTAs designated by the local authority);
  - BBOWT reserves owned and run by BBOWT;
  - Green Belt and Nature Improvement Areas identified in the West Oxfordshire Local Plan;

- Green Infrastructure network identified in the Vale of White Horse Local Plan; and
- Existing Greenspace and New Greenspace / Parks identified in the Cherwell Local Plan.

### **Ancient woodland**

2.1.10 Ancient woodland sites provided by TVERC vary in nature, with the following types of woodland noted according to the Ancient Woodland Inventory (Natural England, 2023):

- Ancient semi natural woodland (ASNW) – broadleaf woodlands comprising mainly native tree and shrub species which are believed to have been in existence for over 400 years;
- Plantation on ancient woodland sites (PAWS) – sites which are believed to have been continuously wooded for over 400 years and currently have a canopy cover of more than 50 percent (%) non-native conifer tree species; and
- Ancient wood pasture- woodlands where the trees are managed with use of a long-established tradition of grazing, characteristically with at least some veteran trees or shrubs.

### **Ancient, Tree Inventory**

2.1.11 Trees listed on the Woodland Trusts Ancient Tree Inventory can be recorded and submitted by anyone following the guidance provided on the website. The inventory lists trees under three different age classes: notable, veteran and ancient

2.1.12 Ancient trees are trees in their third and final stage of life for that species. They are some of the oldest trees for their species and possess features of biological / wildlife and sometimes cultural value. Typically, this includes reduced crown, hollow trunk, cavities on trunk and limbs, rough or creviced bark, fungal fruiting bodies from dead wood, and deadwood in the crown.

2.1.13 Veteran trees aren't as old as ancient trees. They are veteran because they possess some of the feature of ancient trees which have value for wildlife, and which have developed as a result of the trees life or environment rather than just age. This includes deadwood, cavities, and water filled hollow.

2.1.14 Notable trees are trees notable for their size (for their species) and may be especially large or prominent but lack the features of age and decay that characterise veteran and ancient trees.

### **Legally protected species**

2.1.15 Legally protected species comprise any species protected or listed under the following legislation:

- Annex 1 of the EC Birds Directive (BDir1);

- Annex 2 of The Conservation of Habitats and Species Regulations 2017(as amended) (HReg2);
- Habitats Directive - Annex II - Species requiring designation of Special Areas of Conservation (HDir2), Annex IV - Species in need of strict protection (HDir4), Annex V - Species where population management is decided by individual countries (HDir5);
- Schedules 1, 5 and 8 of the Wildlife and Countryside Act 1981 (as amended) (referred to as WCA1, WCA5 and WCA8 respectively);
- Bern Convention on the Conservation of European Wildlife and Natural Habitats, Appendix 2 - Strictly protected fauna species (Bern2), Appendix 3 - Protected fauna species (Bern3);
- species listed in Appendix 2 of the Bonn Convention on the Conservation of Migratory Species of Wild Animals (Bonn2);
- The Protection of Badgers Act 1992;
- The Eels (England and Wales) Regulations 2009; and
- Salmon and Freshwater Fisheries Act 1975.

### **Other species and habitats of conservation interest or concern**

2.1.16 Other species of conservation concern which may or may not be legally protected are those listed or assed under the following lists or criteria:

- habitats and species listed as being of principal importance for conservation in England under section 41 of the Natural Environment and Rural Communities (NERC) Act 2006 (Priority Species and Priority Habitats);
- Global, GB and England red lists based on the International Union for Conservation of Nature (IUCN) guidelines – Critically Endangered, Data Deficient, Endangered, Extinct, Least Concern, Near Threatened (NT), Rare, Vulnerable;
- Species uncommon in Britain and who status is not based on IUCN criteria– Nationally Notable (Notable), Nationally Notable A, Nationally Notable B, Nationally Scarce and Nationally Rare;
- Species listed on the Red Data List of Threatened British Fungi;
- Oxfordshire Rare Plant Register; and
- Birds of Conservation Concern (BoCC) red list species of high conservation concern and amber list species of moderate conservation concern.

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

2.1.17 Species described as invasive non-native species in this report comprise those listed on the following lists and legislation:

- Schedule 9 of the Wildlife and Countryside Act 1981 (as amended); and
- Great Britain Non-native Species Inventory Portal Checklist of Non-native Species.

### **Confidential records**

- 2.1.18 Record of badgers should be treated as confidential and not distributed publicly. This is because of the risk of persecution if records of badger setts are made publicly available.

### **Limitations**

- 2.1.19 The Applicant cannot be held liable for any inaccuracies or incompleteness of third-party data.
- 2.1.20 Desk study data shows where species have been recorded. The absence of records may be due to the absence of surveys in that area or a lack of reporting of results and incidental sighting. The absence of records therefore, does not mean an absence of a species. The findings of this technical report have not been relied upon alone to determine species presence or absence but have been used in conjunction with habitat and species-specific surveys (see Volume 9: ecology and nature conservation and the associated annexes).

### 3 Results

#### Figures

3.1.1 The results of the searches for all ecological features included in the desk study are summarised in Annex A with more detailed results tables and analysis in the text below.

#### Internationally designated sites

3.1.2 The ecology desk study identified two internationally designated sites within 10 km of the Site. The closest is Oxford Meadows SAC located 1 km from the Site.

3.1.3 International designated sites within the Study Area are described along with their distance from the Project and their reasons for designation in Table 3.2.1. The location and geographical extent of the sites are illustrated in Anx Figure 1.

3.1.4 There are no internationally designated sites within the Project site.

**Table 3.2.1. Internationally designated sites within 10 km of the Project site.**

Site name	Designation	Distance from the Project (km)	Site area (ha)	Description
Oxford Meadows	SAC	1.00	265.89	The primary reason for designation is the Habitats Directive Annex 1 habitat: lowland hay meadows. The SAC represents lowland hay meadows in Thames Valley. Includes vegetation communities perhaps unique in the world reflecting the influence of long-term grazing and hay-cutting on lowland hay meadows. The SAC is one of only two sites in the UK for the Annex II species creeping marshwort <i>Apium repens</i> which is also a primary reason for designation.
Cothill Fen	SAC	3.65	43.26	The primary reason for designation is the Habitats Directive Annex I habitat: Alkaline fens. The SAC contains one of the largest surviving examples of alkaline fen vegetation in central England. Also present as a qualifying feature is the Annex II habitat Alluvial forests with <i>Alnus glutinosa</i> and <i>Fraxinus excelsior</i> which is a Habitats Directive priority feature. General site character includes inland water bodies, bogs, marshes and water fringed vegetation and broad-leaved deciduous woodland.

## Nationally designated sites

- 3.1.5 The desk study identified 21 nationally designated sites within 5 km of the Site. The closest site is Wytham Woods (SSSI) which adjoins the Project site. Blenheim Park (SSSI) is 0.01 km from the Project.
- 3.1.6 National designated sites within the Study Area are described along with their distance from the Project and their reasons for designation in Table 3.2.2 below. Their location in relation to the Project site and their geographic extent are illustrated in Anx Figure 2.

**Table 3.2.2. Nationally designated sites within 5 km of the Project site.**

Site name	Designation	Distance from the Project (km)	Site area (ha)	Description
Wytham Woods	SSSI	Adjoining the Project site	426.5	Wytham woods contains complex ancient woodland, wood pasture, common land and old limestone grassland. This mix of habitats supports a rich diversity of flora and fauna. Over 500 species of vascular plants have been recorded and over 60 species associated with ancient woodland; these include herb paris <i>Paris quadrifolia</i> , stinking iris <i>Iris foetidissima</i> and wood dog violet <i>Viola reichenbachiana</i> . Over 170 species of mosses and liverworts have been recorded including <i>Ulota crispa</i> and <i>Isoetecium myurum</i> and over 250 species of fungus have been recorded. Further the insect fauna is extremely diverse, with over 800 species of butterflies and moths, more than 580 species of flies (Diptera), over 900 species of beetles, over 700 species of bees, wasps and ants (Hymenoptera), over 250 species of true bugs (Hemiptera), 27 species of earthworms and also more than 200 species of spiders have been recorded within this site.
Blenheim Park	SSSI	0.01	225.20	Blenheim Park is one of the finest areas of ancient oak-dominated pasture woodland in the country. The site also holds large lakes that support breeding and wintering birds. The invertebrate fauna contains several species associated with dead and decaying wood. At least twelve species of the vascular plant flora and sixteen species of epiphytic lichens are present.
Rushy Meadows	SSSI	0.65	8.74	Rushy meadows comprised of unimproved alluvial grasslands alongside the Oxford Canal, in which low-intensity, traditional management has produced rich meadow and fen communities containing several uncommon species. Most notable within this site is the <i>Cynosurus cristatus-Centaurea nigra</i> meadow and pasture community. Less common species present include pepper

Site name	Designation	Distance from the Project (km)	Site area (ha)	Description
				saxifrage <i>Silau silaus</i> , devil's bit scabious <i>Succisa pratensis</i> , betony <i>Stachys officinalis</i> and early marsh orchid <i>Dactylorhiza incarnata</i> ; of particular interest is water avens <i>Geum rivale</i> as this species is very uncommon in the Thames basin. Bird species of interest include breeding snipe <i>Gallinago gallinago</i> , grasshopper warbler <i>Locustella naevia</i> and over-wintering water-rail <i>Rallus aquaticus</i> .
Sheep's Bank (Formerly Holly Bank SSSI)	SSSI	0.75	5.1	This site has a species-rich grassland that is on steeply sloping land which is traditionally managed. Notably there is an ancient hedge that runs the length of the site and a small stream.
Wytham Ditches and Flushes	SSSI	0.86		This site contains species-rich eutrophic aquatic and fen flora, which are rare in the county. Further this site supports areas of flowering plants which are uncommon in central England, with at least one of these species having its only Oxfordshire population here. The main ditch contains a rich flora including the only significant populations of greater water-parsnip <i>Sium latifolium</i> and greater spearwort <i>Ranunculus lingua</i> in the county, together with other uncommon wetland species, such as brookweed <i>Samolus valerandi</i> and water violet <i>Hottonia palustris</i> . The open water retains a diverse flora. There is also a diverse variety of bryophyte and vascular plants present in a small field of tussocky, unimproved pasture.
Hurst Hill	SSSI	1.00	20.60	Classic site for the study of mosses and liverworts. The number of species recorded is remarkable for this part of Britain. The lichen flora also includes species which are uncommon in Oxfordshire.
Pixey and Yarnton Meads	SSSI	1.00	85.60	Pixey and Yarnton Meads is an internationally renowned site due to its unimproved floodplain meadows on alluvium over calcareous gravel, which are considered to be the one of the best remaining examples of neutral grassland in lowland England. Past management history is well known and has consisted of an annual cut for hay which is then grazed; this has produced botanically rich grassland. Notable plants present on site include the green winged orchid <i>Orchis morio</i> , autumn crocus <i>Colchicum autumnale</i> , saw-wort <i>Serratula tinctoria</i> , pepper saxifrage and meadow rue <i>Thalictrum flavum</i> . The watercourses surrounding the Meads have tall emergent vegetation frequented by dragon and damselflies,



Site name	Designation	Distance from the Project (km)	Site area (ha)	Description
				including the banded demoiselle <i>Calopteryx splendens</i> .
Cassington Meadows	SSSI	1.06	7.03	Cluster of neutral hay meadows and fen which are surviving remnants of semi-natural vegetation in an area now characterised by intensive arable farming and gravel extraction. This type of meadow grassland is now a nationally threatened habitat. Many of the fen plants are found in the ditches where common frog breeds.
Wolvercote Meadows	SSSI	2.52	7.06	Meadows bordering the River Thames consisting of unimproved and semi-improved neutral grassland. The flora is rich with an abundance of herbs such as ox-eye daisy <i>Leucanthemum vulgare</i> , meadowsweet <i>Filipendula ulmaria</i> . The neighbouring meadows produce a wealth of wildflowers in unimproved pastures during early summer.
Port Meadow with Wolvercote Common & Green	SSSI	2.92	164.98	Port Meadow is used as a study site for the effects of grazing on plant communities as it has been grazed for over a millennium. The site consists of neutral grasslands situated in the Thames floodplain. This site is considered to be the one of the best examples of the influence grazing can have on species assemblages. There have been a few management practices at Wolvercote common but largely the site has remained as unimproved permanent pasture with continuous grazing. Plant species occurring in nearby hayfields include cowslip <i>Primula veris</i> , adder's-tongue <i>Ophioglossum vulgatum</i> and greater burnet <i>Sanguisorba officinalis</i> are rare on the grazed land.
Sturt Copse	SSSI	3.34	6.48	An important remnant of the ancient hanging ash-wych elm woodlands of the Evenlode Valley with several uncommon plant species. It is an interesting example of the few remaining woods of this group on the steep Jurassic limestone slope above the river. In grassland areas wildflowers such as wild liquorice <i>Astragalus glycyphyllos</i> , pyramidal orchid <i>Anacamptis pyramidalis</i> , wild thyme <i>Thymus serpyllum</i> , rock rose <i>Helianthemum nummularium</i> , uncommon grey sedge <i>Carex grayi</i> can be found. The woodland has some wildflowers associated with woodland, the canopy is of ash with some oak and a shrub layer of hazel.
Cothill Fen	SSSI (and SAC)	3.65	43.26	Supports outstanding examples of nationally rare calcareous fen and moss-rich mire communities together with associated wetland habitats. Exhibits succession from open water to gen, scrub to water

Site name	Designation	Distance from the Project (km)	Site area (ha)	Description
				table. Over 330 vascular plants have been recorded.
Hook Meadow and The Trap Grounds	SSSI	3.97	11.85	The site consists of a series of unimproved neutral meadows that have become increasingly rare following agricultural improvement. Insects recorded include hoverflies <i>Chrysogaster hirtella</i> which is associated with marshes and <i>Platycheirus fulviventris</i> which is uncommon in Oxfordshire.
Out Wood	SSSI	3.79	19.16	Out Wood is located east of Charlbury, Oxfordshire. It is a remaining fragment of a medieval forest. Current management includes deer exclusion and coppicing. The ground flora is species-rich, including bluebell <i>Hyacinthoides non-scripta</i> .
Middle Barton Fen	SSSI	3.85	11.58	Middle Barton Fen is an area of good quality fen and wet grassland habitat. The site is located next to the Cockley Brook along which there is a bank of limestone grassland.
Stonesfield Common, Bottoms and Banks	SSSI	3.92	26.86	Stone fields common is a series of steeply sloping valleys and banks, mostly of unimproved limestone grassland and scrub. There is also an area of semi-natural ancient woodland. The grassland within the site is mainly upright brome <i>Bromus erectus</i> , and herbs such as field scabious <i>Knautia arvensis</i> , greater knapweed <i>Centaurea scabiosa</i> , lady's bedstraw <i>Galium verum</i> and pyramidal orchid.
Appleton Lower Common	SSSI	4.33	47.28	Fine example of broadleaved woodland on the Oxford Clay which has remained unmodified by conifer planting or clear felling. Wet ash <i>Fraxinus excelsior</i> wych elm <i>Ulmus glabra</i> woodland, a relatively uncommon woodland type is well represented.
Whitehill Wood	SSSI	4.47	3.4	Whitehill wood is an area of limestone grassland and woodland on the northern valley side of the River Evenlode.
Holly Court Bank	SSSI	4.72	4.42	This site consists of limestone grassland (national nature conservation priority) and woodland. Areas of scrub are now present within the site. Wildflowers such as wild liquorice, pyramidal orchid, wild thyme and rock rose are found here, alongside the uncommon grey sedge. The woodlands have a canopy of ash with some oak and a shrub layer of hazel (broadleaved woodland -national nature conservation priority). There are a few woodland wildflowers including dog's mercury, yellow archangel and spurge laurel found here.

## Non-statutory designated sites

- 3.1.7 The desk study identified 57 non-statutory designated sites within 2 km of the Project including four sites which partially overlap with the site, and a further eight sites which adjoin the Project site.
- 3.1.8 The sites are listed along with designation, distance from the Project and a brief description in Table 3.2.3. Their location in relation the Project site and their geographic extent are illustrated in Anx Figure 3.

**Table 3.2.3. Non-statutory designated sites within 2 km of the Project site.**

Site name	Designation	Distance from the Project (km)	Site area (ha)	Description
Glyme and Dorn Valleys	CTA	Partially overlapping the site at Stratford Lane south of Wooton	437.07	Habitats at Glyme and Dorn Valleys include limestone grassland, lowland meadows, fen, swamp, reedbeds, woodland and eutrophic stand water. The Dorn is known to support a population of the native white clawed crayfish.
Oxford Meadows and Farmoor	CTA	Partially within the site around Swinford between Eynsham and Wytham Woods.	1653	This area includes the Thames Valley to the West of Oxford as far as Farmoor. It includes the Oxford Meadows Special area of Conservation, Farmoor Reservoir and gravel working between Yarnton and Cassington. Habitats include: lowland meadows, floodplain grazing marsh, euphoric standing water, reedbeds.
Wytham Hill	CTA	Partially within the site around Swinford between Eynsham and Wytham Woods.	903	Woodland within the woods of Wytham SSSI, wood pasture and parkland, limestone grassland and fen.
Oxford Heights West	CTA	Partially within the site at the southern end around Denman's copse.	3297	This includes Cumnor Hill, Boars Hill and the woodlands to the South. This area has the ain concentration of fen in Oxfordshire. Habitats also include wet woodland, lowland mixed deciduous woodland, acid grassland and heathland.
Sansoms Lane Green Lane	CDDWS	Adjacent to boundary between Woodstock and Shipton-on-Cherwell	1.78	This site consists of a double line of hedgerow with a public right of way running through the centre. These hedgerows are species rich with a good range of woody species, a herb layer including several species indicative of older hedges. Notable fauna species recorded on site include house sparrow and barn owl.

Site name	Designation	Distance from the Project (km)	Site area (ha)	Description
Weavely Furze Firewood Allotments	CDDWS	Adjacent to boundary between Woodstock and Shipton-on-Cherwell	1.82	This site is a small community woodland, it is open to the public and volunteers carry out management activities such as coppicing. There is a block of broadleaved semi-natural woodland with an open ash canopy and shrubs. There is also a stream, a seasonal pond and some deadwood piles. The main section of the site is scrub, young planted trees, with small areas of grass along the paths, there is also a block of hazel coppice.
Smith Hill Copse	LWS	Adjacent to southern boundary.	5	One of a group of small ancient woodland sites south of Farmoor. They have been continuously wooded since 1600AD and are classed as ancient. Such woodland is a national nature conservation priority. The woodland canopy is composed of oak, ash and field maple. There are good patches of bluebells.
Pinsley Wood	LWS	Adjacent to the western boundary near Long Hanborough.	Not provided	Pinsley Wood is set on gently sloping Oxford Clay, cornbrash and Forest marble. The site contains woodland with an oak and ash canopy with sheets of bluebells. Further many ancient woodland species have been recorded within the site. The ground flora is rich and includes some rare plant meadow saffron is found here with other uncommon species including thin-spiked wood sedge, herb Paris, early-purple orchid and wild service tree. The site supports some butterfly species with records for purple hairstreak (1993), silver-washed fritillary (2015), white admiral (2015) and wood white (1992). Further there are a good range of Invertebrate and fungi species recorded in the wood.
Bladon Heath	LWS	Adjacent to and bounded by the Project site on all sides	Not provided	Bladon Heath is set on a hilltop area of glacial sand and gravel over the Oxford Clay. The area has been largely planted with conifers and only small areas of slightly acid grassland remain along the rides. Heath bedstraw, tormentil, broom and gorse are still present with other heathland species that were previously present being lost. The woodland includes some semi-natural areas of mature oak with hazel coppice. The woodland field flora is species-rich with bluebell, greater stitchwort, wood speedwell, primrose, wood spurge, honeysuckle and enchanter's-nightshade. Many ancient woodland species have been recorded here; with 27 being seen in 2015.

Site name	Designation	Distance from the Project (km)	Site area (ha)	Description
Burleigh Wood	LWS	Adjacent to and bounded by the Project site on all sides	Not provided	Burleigh Wood is an ancient woodland, set on a hill to the south of Bladon, West Oxfordshire. The wood has been largely replanted with conifers and, in one compartment, beech, there are also mixed plantations with beech, oak and various conifers. To the south-east corner remains some semi-natural oak wood with field maple, crab-apple and hazel coppice which extends along the eastern edge. Strips of broadleaved woodland are present along the block edges adjacent to the rides and include species such as wild service tree and aspen. Further 28 ancient woodland indicator species have been recorded here such as the early-purple orchid, wood anemone, wood spurge and wood speedwell. The north-south ride is very wide and includes wet grassland species such as bugle, meadow vetchling, cuckooflower, greater bird's-foot trefoil and common marsh-bedstraw.
City Farm	LWS	Adjacent to the western Project site north of Eynsham	Not provided	This site consists of two arable fields. These fields support populations of arable wildflowers that are recognised as being of European importance (based on the Plantlife important arable plant areas scoring system). The most endangered species present are Annual knawel (Endangered); Nettle-leaved goosefoot, Corn marigold and Corn spurrey (Vulnerable); Dwarf spurge and Field woundwort (Near threatened) and Blue pimpernel (Nationally Scarce), there is also a wide diversity of other arable wildflower species. Lapwings and skylark are known to nest here
Denman's Copse	PLWS	Adjacent to the southern boundary.	Not provided	No information provided
Yarnton Sidings	PCDDWS	0.01	Not provided	The site is part of the active Cotswold railway line. Along the edge of the track, the vegetation ranges with areas of bramble scrub, tall herb with stands of rosebay willowherb, rough grassland with false oat-grass and a developing open grassland sward. The most diverse area is to the north of the track where an open colonising sward is establishing. A range of species typical of this type of habitat and calcareous grassland are present including blue fleabane, pyramidal orchid, greater knapweed, pale toadflax and Wild liquorice is also present.

Site name	Designation	Distance from the Project (km)	Site area (ha)	Description
Blenheim and Ditchley Parks	CTA	0.01	183.11	Blenheim and Ditchley parks comprise of historic parkland, woodland, limestone parkland and species rich hedgerows. Ditchley park also has two stream valleys and arable wildflowers.
Farmoor Reservoir	LWS	0.02	203.7	Large open water to the west of Oxford and adjacent to the River Thames. Important for birds and attracts wildfowl including coot, goldeneye and tufted duck. It includes a series of shallow pools valuable for birds and freshwater invertebrates. To the south is Bushy Leaze Copse, a semi-natural broadleaved woodland.
Acrey Waters	LWS	0.04	Not provided	Acrey waters is a disused gravel pit and has many pools of open water which are bordered by wooded banks and areas of wet woodland. The pools have sections of shallow water, abundant aquatic and emergent wetland plants such as water lilies, broadleaved pondweed, flag iris and marsh horsetail. Rich areas of water such those present at Acrey waters are a national priority for nature conservation. Further the site supports a good range of dragonflies and damselflies.
Begbroke Wood	LWS	0.06	Not provided	Begbroke wood is a large woodland on heavy soils, over level ground. The canopy is largely oak but varies a little, there are some areas of conifers, mainly Scots pine and larch. The understory consists of hazel and goat willow, with bluebell displays. The wood is included on the Ancient Woodland Inventory and includes ancient woodland indicator species. The wood is important for the presence of silver-washed fritillary. There is a wide grassland clearing that is occupied by meadowsweet and common spotted orchids.
Wootton Jubilee Fields	LWS	0.11	11.53	This site is comprised of limestone grassland, wet meadows, with patches of scrub and woodland, located next to the rivers Glyme and Dorn. Priority species present on site include the bullfinch (on the Red List of Birds of Conservation Concern) and three rare insect species which are potential Red Data Book Species).
Swinford Farm Meadow	LWS	0.15	Not provided	Swinford Farm Meadow is a ridge and furrow grassland beside the River Thames. There are areas of pond-sedge swamp which support purple loosestrife, marsh horsetail and sharp flowered rush. The most diverse areas of

Site name	Designation	Distance from the Project (km)	Site area (ha)	Description
				grassland include great burnet, lady's bedstraw, black knapweed, pepper saxifrage, meadow sweet and yellow rattle. Across the site several wetland species are present including square-stalked St-John's wort, common marsh bedstraw, brown sedge, wild angelica and oval sedge. Tall hawthorn hedgerows boarder the site.
Cassington Gravel Pits South (Smiths Pits)	LWS	0.15	Not provided	The Cassington Gravel Pits are one of Oxfordshire's oldest disused gravel works. Smith's Concrete occupies the northern end of the site, to the east is the large area of open water. The River Evenlode lies to the western edge of the site. Three shallow lakes are surrounded by areas of higher ground. Willow and birch scrub have developed on the higher ground, together with extensive areas of reedbed, grassy area at the most northern edge are where hundreds of common spotted orchids and many bee orchids were seen in 1986. The mix of habitats and undisturbed nature of the site has resulted in the area becoming very important for wetland birds, including the first confirmed breeding of water rail in Oxfordshire.
Long Mead	LWS	0.16	Not provided	Long Mead consists of a species rich floodplain hay meadow adjacent to the River Thames, many common species are found here alongside species associated with more traditionally managed meadows such as great burnet, sneezewort, quaking grass and pepper saxifrage. There is a meandering stream channel that supports damp-loving plants including marsh marigold, ragged robin, water forget-me-not, cuckooflower, common spike rush and several species of sedge including slender tufted sedge. Further, the riverside has hemlock water-dropwort and records for stingless nettle.
Pasture near Chawley	LWS	0.24	1.7	Banks of dry grassland with a spring and stream bordered by marshy habitat dominated by rushes and sedges. This type of wetland habitat is a national priority for nature conservation.
South Freeland Meadows	LWS	0.29	Not provided	This site consists of two hay meadows situated on old ridge and furrow on the Oxford Clay. The sward has a number of species usually only found in meadows that have not been ploughed, re-seeded or treated with artificial fertiliser for many years; such as devil's bit

Site name	Designation	Distance from the Project (km)	Site area (ha)	Description
				scabious, sneezewort and pignut. Wetter areas have bugle, wild angelica, greater bird's-foot-trefoil and ragged robin. Management has improved the diversity further with betony, tormentil and yellow rattle also now present. A seasonal pond in the northern field has previous records for a rare plant, ivy-leaved water crowfoot <i>Ranunculus hederaceus</i> . The field boundaries include a ditch to the east and thick hedges.
Frogwelldown Lane	CDDWS	0.32	Not provided	The site is a green lane to the west of Yarnton, with a public right of way running along its length. There are sections of hedgerows that widen to scrub and woodland. The hedgerows have a mix of hawthorn, blackthorn, English elm, spindle, elder, ash and field maple. Whilst the path verges consist of rough grassland, tall herb and bramble. Woodland herbs present include bluebell, primrose, goldilocks buttercup and three-nerved sandwort.
Hollybank Marsh	LWS	0.33	1.78	Holly Bank Marsh is a collection of wet marshy fields adjacent to the River Dorn. Species rich habitats present are hay-meadow, reed-bed and tall herb fen. Notable species on site include southern marsh orchid, early marsh orchid, betony, ragged robin and marsh valerian. The site has a rich invertebrate presence with ringlet and marbled white butterflies.
Lower Cherwell Valley	CTA	0.37	232.09	Habitats present at Lower Cherwell Valley include fen, swamp, reedbeds, floodplain grazing marsh, limestone grassland and eutrophic standing water.
Chawley footpath	LWS	0.38	3.2	Dry limestone grassland and a number of flushes with marshy habitat. Both habitats are national nature conservation priorities. Wildflowers present include ragged robin, common spotted orchid, water mint.
Long Copse	LWS	0.38	3.3	Ancient woodland occupying a steep sided valley. The woodland is a mixture of broadleaved species. Woodland wildflowers include bluebell, wood anemone, marsh marigold.
Long Leys Farm Meadows	LWS	0.39	4.4	Two traditionally managed hay meadows lying on clay, sloping gently down towards the River Thames. The sward is dominated by native species. There are previous records for adder's-tongue fern and yellow-wort.



Site name	Designation	Distance from the Project (km)	Site area (ha)	Description
Bunkers Hill Quarry	LWS	0.39	63.39	Bunkers Hill Quarry is a large limestone quarry, which supports a range of habitats including open water, wetland, calcareous grassland and open ground. These habitats provide opportunities for birds with this site being used by overwintering, migrating and breeding birds (as reported by the Oxford Ornithological Society). There are rare species present within the quarry grounds such as wild liquorice and 1990 records show present of the nationally scarce blue-tailed damselfly, the white-legged damselfly and a leafhopper <i>Macrosteles frontalis</i> .
Tackley Heath	LWS	0.40	17.12	This site is mainly comprised of woodland and bracken on Oxford Clay which has become quite acidic. Present are large areas of mixed scrub, mature oak trees, hazel and an overgrown pond. Along the open paths some species associated with acidic habitats (that are unusual in Oxfordshire) have been recorded previously; bog moss Sphagnum (in the 1950s) and heath bedstraw (1986).
Cassington to Yarnton Gravel Pits	LWS	0.49	Not provided	This site comprises of a series of river terrace gravel pits, close to the Thames corridor. There are three main lakes, one is large steep-sided, the central lake has gently shelving edges and the other is an older conservation lake. There is also a series of silt lagoons, restored with young plantation. The site provides important habitat for birds, especially wintering wildfowl with records including teal, pintail, shoveler, pochard and goldeneye. Records also show the site is frequented by oystercatcher, common tern, turtledove and black-headed gulls. The banks support a fringing vegetation of diverse flora. Notable species include cyperus sedge, round fruited rush, brookweed and celery-leaved water-crowfoot.
Eynsham Wood	WTR	0.74	Not provided	Eynsham Wood is a young, planted wood. This woodland is part of the Woodland Trusts 'Woods on Your Doorstep' millennium Project. Present are grass rides and paths that pass around and through the maturing woodland.
Langford Meadows	LWS	0.86	Not provided	Langford Meadow contains areas of tall herb fen with areas of lowland meadow, rough grassland, alongside small areas of scrub and a wooded strip. To the south-east of the site there is a patch of species-rich unimproved

Site name	Designation	Distance from the Project (km)	Site area (ha)	Description
				grassland. Further the site also contains species-rich hedgerows, wet ditches and ponds. These habitats support some bird species such as the breeding reed bunting and overwintering snipe.
Woodstock Water Meadows	LWS	0.92	Not provided	Woodstock water meadows consists of wet meadows, woodland, scrub, wet ditches, semi-improved grassland, broadleaved plantation woodland, tall herb and two ponds. These low lying water meadows are of historic interest as they are mentioned in written records of the 15th century (24th May 1453). The invasive Himalayan balsam is now present creating some areas of species-poor habitat.
Thames Island west of Farmoor	LWS	0.94	2.3	The site consists of wet woodland and reedbed along the edges of an ox-bow lake formed by a tight bend of the River Thames. The old river channel forms a secluded lake. The dense fringing swamps are species-rich, providing important habitat for birds and invertebrates.
Bletchington Quarry and Fen	LWS	0.99	4.72	This site is a disused limestone quarry. Areas of the site have been levelled for scrambling tracks, which are used for off-road motor sports and has annual plants of neutral soils. The site also includes area of pond sedge-dominated fen adjacent to the river, steep bank, mixture of grassland, tall herb, short ephemeral vegetation and scrub, as well as a rich wildflower areas. A variety of birds have been recorded here including sedge warbler, reed warbler, grasshopper warbler, whitethroat, garden warbler, blackcap, chiffchaff, greenfinch, goldfinch, reed bunting, yellowhammer, kestrel, grey partridge, mistle thrush, dunnock, greater spotted woodpecker and green woodpecker.
Somerford Mead	LWS	1.10	Not provided	This floodplain hay meadow is an experimental re-creation of the meadow foxtail/great burnet (MG4) community on a field that has previously been under an arable regime. The site was originally a hay meadow, which had then been under arable management for several years the experimental management began. Locally harvested Oxey Mead was scattered on Somerford Mead. A wide range of characteristic hay meadow species are now present on site, including great burnet, pepper saxifrage, yellow rattle, meadow crane's-bill, cowslip, quaking grass, black knapweed and

Site name	Designation	Distance from the Project (km)	Site area (ha)	Description
				common bird's-foot-trefoil. The sward is grass dominated with some broadleaved species.
Riverside Meadow	PCDDWS	1.30	3.42	Riverside meadow is an area of rough, wet meadow alongside patches of scrub. This site is located along the Oxford Canal and appears unmanaged with elements of fen. The wetland and present of lowland fen are habitats of principal importance (NERC).
Blenheim Park - New Park and part of Great Park	PLWS	1.32	57.98	This site is parkland with areas of woodland, grassland with areas of species-rich calcareous grassland and a pond. There are large areas of lowland wood-pasture and parkland (UK BAP habitat). The site supports old trees alongside some veteran trees, with features such as dead wood rot holes and loss of the crown. There are some steeply sloping calcareous banks that are unimproved with flower-rich swards.
Louie Memorial Fields	LWS	1.32	2.8	Woodland and scrub with a small pond, areas of fen and rough grassland.
Oxey Mead	BBOWT	1.33	Not provided	No information provided
Wolvercote Mead	LWS	1.46	Not provided	No information provided
Wytham Park	LWS	1.47	77	Fine parkland with a number of veteran oak trees. Trees have veteran features such as dead wood, rot holes and loss of the crown. Springs are present on the slope with abundant hard rush, creeping bent and Yorkshire fog.
Worcester Hill Bank and Marshes	LWS	1.48	9.61	This site is made up of three steep limestone banks which support lowland calcareous grassland, two fen areas, ranker calcareous grassland, semi-improved grassland and scattered scrub. The southern fen is the more diverse of the two fens which has presence of avens, southern marsh orchid, bird's-foot-trefoil, wild angelica, water mint, fen bedstraw and previous records of bottle sedge.
Lincelane Copse	PCDDWS	1.52	1.98	This site lies between the Oxford Canal and Lince Lane. The habitat is mainly a narrow strip of semi-natural woodland. Lowland mixed deciduous woodland is a habitat of principal importance (NERC).

Site name	Designation	Distance from the Project (km)	Site area (ha)	Description
Pixey Mead	BBOWT	1.55	Not provided	Part of the Pixey and Yarnton Meads SSSI and comprising unimproved floodplain meadows on alluvium over calcareous gravel are internationally renowned. They are amongst the best examples of neutral grassland in lowland England.
Thrupp Community Woodland	CDDWS	1.58	Not provided	This woodland is a broadleaved plantation. It is dominated by ash and hazel with crack willow, oak and smaller amounts of silver birch and wild cherry. There is also presence of alder and some scrubby areas with hornbeam and dogwood. The site is frequented by a range of bird species including mallard, long-tailed tit, willow warbler, starling and chiffchaff. There are also previous records of breeding kingfisher, grey wagtail, willow tit, marsh tit, blackcap, garden warbler, whitethroat, sedge warbler, tree creeper, song thrush, green woodpecker, cuckoo, bullfinch and dunnock.
Wet Wood and Swamp near Yarnton	LWS	1.63	Not provided	No information provided
Enslow Marsh	LWS	1.70		Enslow marsh consists of sedgebeds, tall mixed fen vegetation, wet woodland, scrub and planted broadleaved trees. The locally scarce bottle sedge and locally rare eared willow and cultivated vetch have been recorded here. The sedgebeds provide breeding habitat for birds such as reed bunting and sedge warbler. Further the woodland and scrub habitat support song thrush, bullfinch and a variety of warblers. Water rail and over-wintering snipe have previously been recorded on site. The adjacent Oxford canal have records of water vole.
Upper Thames	CTA	1.73	2284	Riverside between Northmoor and the County boundary. One of the key habitats in this area is lowland meadows. Wet grassland and floodplain grazing marsh are also present. This area has been important for wading birds. Curlew nest in the area.
Wychwood and Lower Evenlode	CTA	1.74	Not provided	Wychwood & Lower Evenlode consists of ancient woodland, historic parkland, limestone grassland, species-rich hedgerows with some heath and acid grassland areas.

Site name	Designation	Distance from the Project (km)	Site area (ha)	Description
Kidlington Copse (Parkhill Copse)	PCDDWS	1.77	Not provided	This site is a small block of semi-natural woodland by Parkhill recreation ground in Kidlington.
Glyme Valley, Glympton	LWS	1.84	5.74	The site is located along the edges of the river Glyme. The Glyme Valley is comprised of wet woodland, broadleaved plantation, lowland mixed deciduous woodland, pond-sedge fen, wet grassland, a pond and sections of the river Glyme. The riverbanks are well-vegetated, and the site is known to be important for bird species including the yellowhammer. The rare dragonfly species, the downy emerald, has been recorded from this area.
Harcourt Hill Scrub and Fen	LWS	1.91	23.3	A good range of wetland habitats including open water, reedbed and wet woodland with species-rich scrub and broadleaved semi-natural woodland. The wet woodland has abundant bryophytes and great horsetail with small amounts of jointed rush, floating sweet grass, marsh thistle and brooklime.
Loop Farm Flood Meadows	LWS	1.98	Not provided	No information provided
Cotswold Valleys	NIA	0.22	31671.47	Comprises the river valley systems of the rivers Evenlode, Windrush, Con, Churn and the By Brook, and extends through Oxfordshire, Wiltshire and Bath and North East Somerset. As well as the rivers which are key examples of oolitic limestone rivers, the designation also includes woodland grasslands and water meadows.

## Local Plan Designations

### West Oxfordshire Local Plan

- 3.1.9 The West Oxfordshire Local Plan identifies Ancient Woodland sites, Nature Improvement Areas (NIA) and Green belt.
- 3.1.10 All the Ancient Woodland sites in West Oxfordshire are included on the Natural England Ancient Woodland Inventory and are considered separately under Ancient Woodland (see below).
- 3.1.11 There is one NIA within 2 km of the Site, the Cotswold Valleys NIA located 210 m to the northwest of the Site. Only one part of the Cotswold Valleys NIA falls within 2 km of the Site specifically the area encompassing the river valley

of the River Evenlode which extends through parts of Oxfordshire and Gloucestershire. The NIA is shown on Anx Figure 4.

- 3.1.12 The West Oxfordshire Green Belt encompasses a single large area northwest of the city of Oxford and covering most of the proposed development Site between the A44 on the north to Eynsham on the south. The Green Belt is shown on Anx Figure 4.

### **Cherwell Local Plan**

- 3.1.13 The Cherwell plan contains several policies relating to biodiversity and nature conservations. These refer variously either to designated sites or priority habitats considered separately in this report, or to features which are not mapped (such as general habitat types) which may or may not have biodiversity value. These features are addressed separately in the Phase 1 Habitat Survey and any subsequent assessment of features identified in that survey and the Ecology and Nature Conservation chapter of the ES.

### **Vale of white Horse Local Plan**

- 3.1.14 The Vale of White Horse Local Plan includes an area of the Oxford Green Belt extending from just south of Cassington down as far as Abingdon and encompassing the southern part of the Site in this area. The green belt is shown on Anx Figure 4.
- 3.1.15 The Vale of white Horse Local Plan also refers to Green Infrastructure which is described in the 2017 Green Infrastructure Strategy (South Oxfordshire and Vale of White Horse District Councils, 2017). In relation to Ecology and nature conservation the Green Infrastructure comprises statutory and no-statutory designations. These are considered under the relevant headings above.

### **Ancient woodland**

- 3.1.16 The desk study identified 91 ancient woodland inventory sites within the Study Area of which one (Bladon Heath) falls partly within the Project site.
- The geographical location and extent of the ancient woodland sites identified in the desk study are shown in Anx Figure 3.

### **Ancient tree inventory**

- 3.1.17 The desk study identified five ancient tree inventory trees within 50 m of the site. All five trees are classed as veterans. Two veteran trees are situated within the Project site near to Swinford. The remaining three trees are outside the Project site. The trees are shown on Anx Figure 5.

### **Priority habitats**

- 3.1.18 The desk study identified four priority habitats within the Project site: coastal and floodplain grazing marsh, possible priority grassland habitat, lowland mixed deciduous woodland and rivers. A further 12 priority habitats are present

outside of the Site but within 2 km of the Project site. Priority habitats and their extents within the search area are listed in Table 3.2.4 and shown on Anx Figure 6 to Anx Figure 8.

**Table 3.2.4. Priority habitats within 2 km of the Project site**

Priority Habitat	Extent within the Project site (ha)	Extent within 2 km of the Project site (Ha)
Coastal And Floodplain Grazing Marsh	20.24	387.97
Possible Priority Grassland Habitat	3.42	373.51
Lowland Mixed Deciduous Woodland	0.14	554.71
Rivers	0.01	0.18
Eutrophic Standing Waters	0	276.51
Wood-Pasture And Parkland	0	152.46
Lowland Meadows	0	67.34
Lowland Calcareous Grassland	0	34.18
Lowland Fens	0	26.29
Wet Woodland	0	18.91
Lowland Hay Meadows (H6510)	0	17.01
Traditional Orchards	0	9.82
Lowland Beech And Yew Woodland	0	8.28
Reedbeds	0	2.72
Open Mosaic Habitats On Previously Developed Land	0	2.59
Lowland Dry Acid Grassland	0	2.25
Possible Priority Habitat	0	0.18

## Protected and notable species

### Flora

- 3.1.19 The ecology desk study identified records of 88 flowering plants, one fern eight fungi and 13 lichens of conservation interest or concern within the Study Area.
- 3.1.20 The records include 18 priority species, six species protected under Schedule 8 of the Wildlife and Countryside Act 1981 (as amended), three nationally rare species, 13 nationally scarce species, 82 Red List species, 21 species scarce in Oxfordshire and 20 species which are rare in Oxfordshire. Some species come under more than one of these categories.
- 3.1.21 Of these species seven flowering plants have been recorded within the Project site.

3.1.22 The locations of the records are shown on Anx Figure 9 and Anx Figure 10 with the records summarised in Table 3.2.1.

**Table 3.2.5. Protected and notable plants, lichens and fungi within 2 km of the Project site.**

Group	Common name	Scientific name	No. of records	Nearest distance from the Project (km)	Year of most recent record	Conservation status
Fern	Intermediate polypody	<i>Polypodium interjectum</i>	4	0.93	2017	Oxon-S
Flowering Plant	Chicory	<i>Cichorium intybus</i>	2	0 (1 record)	2017	RL-ENG-post2001-VU
Flowering Plant	Wild Strawberry	<i>Fragaria vesca</i>	20	0 (1 record)	2022	RL-ENG-post2001-NT
Flowering Plant	Corn Mint	<i>Mentha arvensis</i>	7	0 (1 record)	2017	RL-ENG-post2001-NT
Flowering Plant	Hoary Plantain	<i>Plantago media</i>	14	0 (1 record)	2022	RL-ENG-post2001-NT
Flowering Plant	Field Scabious	<i>Knautia arvensis</i>	18	0 (2 records)	2022	RL-ENG-post2001-NT
Flowering Plant	Bluebell	<i>Hyacinthoides non-scripta</i>	37	0 (3 records)	2022	WCA8
Flowering Plant	Rye Brome	<i>Bromus secalinus</i>	1	0 (1 record)	2017	Oxon-S, NS, RL-ENG-post2001-NT, RL-GB-post2001-NT
Flowering Plant	Dwarf Spurge	<i>Euphorbia exigua</i>	12	0.01	2022	RL-ENG-post2001-VU, RL-GB-post2001-VU
Flowering Plant	Field Pepperwort	<i>Lepidium campestre</i>	3	0.01	2019	RL-GB-post2001-NT
Flowering Plant	Narrow-fruited Water-starwort	<i>Callitriche palustris</i>	1	0.02	2017	NR, RL-GB-post2001-VU
Flowering Plant	Ragged-Robin	<i>Silene flos-cuculi</i>	22	0.02	2023	RL-ENG-post2001-NT
Flowering Plant	Bifid Hemp-nettle	<i>Galeopsis bifida</i>	2	0.03	2019	Oxon-S
Flowering Plant	Thin-spiked Wood-sedge	<i>Carex strigosa</i>	6	0.04	2022	Oxon-S
Flowering Plant	Meadow Saffron	<i>Colchicum autumnale</i>	7	0.04	2019	RL-GB-post2001-NT



Group	Common name	Scientific name	No. of records	Nearest distance from the Project (km)	Year of most recent record	Conservation status
Flowering Plant	Stinking Hellebore	<i>Helleborus foetidus</i>	4	0.05	2019	NS
Flowering Plant	Cornflower	<i>Centaurea cyanus</i>	5	0.10	2023	S41
Flowering Plant	Maple-leaved Goosefoot	<i>Chenopodium hybridum</i>	3	0.10	2016	Oxon-R
Flowering Plant	Nettle-leaved Goosefoot	<i>Chenopodium murale</i>	2	0.10	2016	RL-ENG-post2001-EN, RL-GB-post2001-EN
Flowering Plant	Crosswort	<i>Cruciata laevipes</i>	13	0.10	2017	RL-ENG-post2001-NT
Flowering Plant	Treacle-mustard	<i>Erysimum cheiranthoides</i>	2	0.10	2016	RL-ENG-post2001-NT
Flowering Plant	Boreau's Ramping-fumitory	<i>Fumaria muralis subsp. boraiei</i>	1	0.10	2016	Oxon-R
Flowering Plant	Corn Marigold	<i>Glebionis segetum</i>	14	0.10	2019	RL-ENG-post2001-VU, RL-GB-post2001-VU
Flowering Plant	Corn Spurrey	<i>Spergula arvensis</i>	9	0.10	2019	RL-ENG-post2001-VU, RL-GB-post2001-VU
Flowering Plant	Devil's-bit Scabious	<i>Succisa pratensis</i>	13	0.10	2022	RL-ENG-post2001-NT
Flowering Plant	Blue Pimpernel	<i>Anagallis arvensis subsp. foemina</i>	2	0.11	2016	Oxon-S, NS, RL-ENG-post2001-DD,
Flowering Plant	White Ramping-fumitory	<i>Fumaria capreolata</i>	1	0.11	2014	Oxon-R
Flowering Plant	Rock Stonecrop	<i>Sedum forsterianum</i>	1	0.11	2017	NS
Flowering Plant	Greater Spearwort	<i>Ranunculus lingua</i>	4	0.13	2020	Oxon-S
Flowering Plant	Annual Knawel	<i>Scleranthus annuus</i>	2	0.13	2019	S41, Oxon-R, RL-ENG-post2001-EN, RL-GB-post2001-EN

Group	Common name	Scientific name	No. of records	Nearest distance from the Project (km)	Year of most recent record	Conservation status
Flowering Plant	Field Woundwort	<i>Stachys arvensis</i>	4	0.13	2019	Oxon-R, RL-ENG-post2001-NT, RL-GB-post2001-NT
Flowering Plant	Nodding Bur-marigold	<i>Bidens cernua</i>	1	0.14	2018	Oxon-R
Flowering Plant	Common Ramping-fumitory	<i>Fumaria muralis</i>	1	0.14	2016	Oxon-R,
Flowering Plant	Wild Pansy	<i>Viola tricolor</i>	1	0.14	2016	Oxon-S, RL-ENG-post2001-NT, RL-GB-post2001-NT
Flowering Plant	Tormentil	<i>Potentilla erecta</i>	16	0.24	2021	RL-ENG-post2001-NT
Flowering Plant	Annual Knawel	<i>Scleranthus annuus subsp. annuus</i>	1	0.27	2017	S41, Oxon-R, RL-ENG-post2001-EN, RL-GB-post2001-EN
Flowering Plant	Quaking-grass	<i>Briza media</i>	16	0.28	2022	RL-ENG-post2001-NT
Flowering Plant	Tubular Water-dropwort	<i>Oenanthe fistulosa</i>	7	0.28	2023	S41, RL-ENG-post2001-VU, RL-GB-post2001-VU
Flowering Plant	Strawberry Clover	<i>Trifolium fragiferum</i>	1	0.28	2023	RL-ENG-post2001-VU, RL-GB-post2001-VU
Flowering Plant	Sainfoin	<i>Onobrychis viciifolia</i>	3	0.29	2019	RL-ENG-post2001-VU, RL-GB-post2001-VU
Flowering Plant	Narrow-leaved Water-plantain	<i>Alisma lanceolatum</i>	5	0.32	2021	Oxon-S
Flowering Plant	Night-flowering Catchfly	<i>Silene noctiflora</i>	1	0.32	2015	Oxon-S, RL-ENG-post2001-VU, RL-GB-post2001-VU
Flowering Plant	Large-leaved Lime	<i>Tilia platyphyllos</i>	2	0.36	2015	NS
Flowering Plant	Hairlike Pondweed	<i>Potamogeton trichoides</i>	1	0.38	2019	Oxon-R

Group	Common name	Scientific name	No. of records	Nearest distance from the Project (km)	Year of most recent record	Conservation status
Flowering Plant	Narrow-leaved Water-dropwort	<i>Oenanthe silaifolia</i>	5	0.40	2022	Oxon-S, NS
Flowering Plant	Marsh Ragwort	<i>Jacobaea aquatica</i>	2	0.44	2021	RL-ENG-post2001-NT
Flowering Plant	Goldenrod	<i>Solidago virgaurea</i>	1	0.44	2020	Oxon-R, RL-ENG-post2001-NT,
Flowering Plant	Cultivated Vetch	<i>Vicia sativa subsp. sativa</i>	1	0.45	2015	Oxon-R
Flowering Plant	Narrow-leaved Meadow-grass	<i>Poa angustifolia</i>	2	0.47	2019	Oxon-S
Flowering Plant	Fritillary	<i>Fritillaria meleagris</i>	7	0.53	2018	NS
Flowering Plant	Wood-sorrel	<i>Oxalis acetosella</i>	9	0.55	2022	RL-ENG-post2001-NT
Flowering Plant	Common Valerian	<i>Valeriana officinalis</i>	10	0.55	2022	RL-ENG-post2001-NT
Flowering Plant	Lesser Spearwort	<i>Ranunculus flammula</i>	2	0.56	2020	RL-ENG-post2001-VU
Flowering Plant	Common Rock-rose	<i>Helianthemum nummularium</i>	4	0.59	2019	RL-ENG-post2001-NT
Flowering Plant	Lizard Orchid	<i>Himantoglossum hircinum</i>	8	0.68	2023	WCA8, Oxon-R, NS,
Flowering Plant	Common Eyebright	<i>Euphrasia nemorosa</i>	1	0.73	2022	RL-ENG-post2001-NT, RL-GB-post2001-NT
Flowering Plant	Marsh Willowherb	<i>Epilobium palustre</i>	2	0.88	2020	Oxon-R
Flowering Plant	Frogbit	<i>Hydrocharis morsus-ranae</i>	1	0.88	2020	Oxon-R, RL-ENG-post2001-VU, RL-GB-post2001-VU
Flowering Plant	Marsh Dock	<i>Rumex palustris</i>	1	0.88	2016	Oxon-R
Flowering Plant	Grey Club-rush	<i>Schoenoplectus tabernaemontani</i>	5	0.88	2016	Oxon-R

Group	Common name	Scientific name	No. of records	Nearest distance from the Project (km)	Year of most recent record	Conservation status
Flowering Plant	Greater Water-parsnip	<i>Sium latifolium</i>	9	0.88	2020	S41, Oxon-R, NS, RL-ENG-post2001-EN, RL-GB-post2001-EN
Flowering Plant	Horned Pondweed	<i>Zannichellia palustris</i>	2	0.88	2016	Oxon-S
Flowering Plant	White Helleborine	<i>Cephalanthera damasonium</i>	10	0.94	2022	S41, RL-ENG-post2001-VU, RL-GB-post2001-VU
Flowering Plant	Rush-leaved Fescue	<i>Festuca arenaria</i>	1	0.99	2017	NS
Flowering Plant	Wood Barley	<i>Hordelymus europaeus</i>	1	1.00	2017	NS
Flowering Plant	Green-winged Orchid	<i>Anacamptis morio</i>	6	1.06	2022	RL-ENG-post2001-VU, RL-GB-post2001-NT
Flowering Plant	Heath Milkwort	<i>Polygala serpyllifolia</i>	1	1.20	2018	Oxon-S, RL-ENG-post2001-NT
Flowering Plant	Cornfield Knotgrass	<i>Polygonum rurivagum</i>	1	1.20	2021	Oxon-S
Flowering Plant	Grape-hyacinth	<i>Muscari neglectum</i>	1	1.25	2021	S41, Oxon-S, NR
Flowering Plant	Ivy Broomrape	<i>Orobanche hederæ</i>	1	1.25	2020	Oxon-S
Flowering Plant	Purple Ramping-fumitory	<i>Fumaria purpurea</i>	2	1.26	2022	S41, NS, RL-ENG-post2001-VU
Flowering Plant	Oak-leaved Goosefoot	<i>Oxybasis glauca</i>	2	1.26	2019	NS, RL-ENG-post2001-VU, RL-GB-post2001-VU
Flowering Plant	Small-flowered Buttercup	<i>Ranunculus parviflorus</i>	2	1.26	2022	Oxon-S
Flowering Plant	Jersey Cudweed	<i>Gnaphalium luteoalbum</i>	2	1.28	2019	WCA8
Flowering Plant	Blinks	<i>Montia fontana</i>	1	1.30	2021	Oxon-S

Group	Common name	Scientific name	No. of records	Nearest distance from the Project (km)	Year of most recent record	Conservation status
Flowering Plant	Parsley Water-dropwort	<i>Oenanthe lachenalii</i>	1	1.32	2022	Oxon-R, RL-ENG-post2001-NT
Flowering Plant	Round-fruited Rush	<i>Juncus compressus</i>	2	1.33	2021	RL-ENG-post2001-VU, RL-GB-post2001-VU
Flowering Plant	Harebell	<i>Campanula rotundifolia</i>	3	1.36	2019	RL-ENG-post2001-NT
Flowering Plant	Heath Speedwell	<i>Veronica officinalis</i>	2	1.43	2015	RL-ENG-post2001-NT
Flowering Plant	Purple Moor-grass	<i>Molinia caerulea</i>	2	1.44	2018	Oxon-S
Flowering Plant	Alder Buckthorn	<i>Frangula alnus</i>	2	1.61	2018	Oxon-S
Flowering Plant	Water-violet	<i>Hottonia palustris</i>	3	1.61	2020	RL-ENG-post2001-VU, RL-GB-post2001-VU
Flowering Plant	Whorled Water-milfoil	<i>Myriophyllum verticillatum</i>	3	1.61	2020	Oxon-S, RL-ENG-post2001-NT, RL-GB-post2001-VU
Flowering Plant	Fen Violet	<i>Viola persicifolia</i>	1	1.71	2015	WCA8, S41, Oxon-R, NR, RL-ENG-post2001-CR, RL-GB-post2001-CR
Flowering Plant	Broad-leaved Cudweed	<i>Filago pyramidata</i>	1	1.85	2021	WCA8, S41, Oxon-R, NS, RL-ENG-post2001-EN, RL-GB-post2001-EN
Flowering Plant	Common Cudweed	<i>Filago vulgaris</i>	1	1.87	2018	RL-ENG-post2001-NT, RL-GB-post2001-NT
Flowering Plant	Hound's-tongue	<i>Cynoglossum officinale</i>	2	1.89	2017	RL-ENG-post2001-NT, RL-GB-post2001-NT
Flowering Plant	Water Avens	<i>Geum rivale</i>	1	1.90	2019	Oxon-S
Flowering Plant	Narrow-leaved Water-plantain	<i>Eleocharis acicularis</i>	1	1.91	2021	RL-ENG-post2001-NT

Group	Common name	Scientific name	No. of records	Nearest distance from the Project (km)	Year of most recent record	Conservation status
Fungus	Cochicum Smut	<i>Urocystis colchici</i>	1	0.02	2015	S41, Fungi-Red-CR
Fungus	Oak Polypore	<i>Buglossoporus quercinus</i>	23	0.65	2021	WCA8, S41
Fungus	None	<i>Flammulaster muricatus</i>	1	1.05	2020	Fungi-Red-VU
Fungus	Bicoloured Bracket	<i>Gloeoporus dichrous</i>	2	1.05	2021	Fungi-Red-NT
Fungus	Brown Birch Bolete	<i>Leccinum scabrum</i>	3	1.05	2021	RL-GB-post2001-DD
Fungus	Zoned Rosette	<i>Podoscypha multizonata</i>	2	1.10	2017	S41
Fungus	None	<i>Sphinctrina anglica</i>	1	1.10	2017	RL-GB-post2001-DD
Fungus	Pale Grisette	<i>Amanita lividopallescens</i>	1	1.34	2020	Fungi-Red-NT
Lichen	A Lichen	<i>Porina byssophila</i>	9	0.54	2019	RL-GB-post2001-DD
Lichen	A Lichen	<i>Gyalecta flotovii</i>	1	0.56	2018	RL-GB-post2001-NT
Lichen	A Lichen	<i>Lecanora sublivescens</i>	14	0.56	2019	S41, RL-GB-post2001-NT
Lichen	A Lichen	<i>Biatora veteranorum</i>	8	0.61	2019	S41, RL-GB-post2001-VU
Lichen	A Lichen	<i>Caloplaca lucifuga</i>	4	0.61	2018	S41, RL-GB-post2001-VU
Lichen	A Lichen	<i>Enterographa soredata</i>	10	0.72	2019	S41, RL-GB-post2001-NT
Lichen	A Lichen	<i>Buellia hyperbolica</i>	4	0.77	2019	S41, RL-GB-post2001-VU
Lichen	A Lichen	<i>Chaenothecopsis savonica</i>	4	0.79	2019	RL-GB-post2001-NT
Lichen	A Lichen	<i>Ochrolechia arborea</i>	2	0.94	2019	RL-GB-post2001-NT
Lichen	A Lichen	<i>Lecanora quercicola</i>	1	1.10	2017	NS, RL-GB-post2001-NT
Lichen	A Lichen	<i>Calicium abietinum</i>	4	1.11	2018	RL-GB-post2001-DD

Group	Common name	Scientific name	No. of records	Nearest distance from the Project (km)	Year of most recent record	Conservation status
Lichen	A Lichen	<i>Rinodina exigua</i>	1	1.25	2019	RL-GB-post2001-DD
Lichen	A Lichen	<i>Micarea globulosella</i>	1	1.34	2019	RL-GB-post2001-DD

### Invertebrates

- 3.1.23 The ecology desk study identified records of 244 terrestrial invertebrate species of conservation interest or concern within the ecology desk Study Area. The records covered several groups, namely true flies, true bugs, moths and butterflies, mayflies, dragonflies and damselflies, molluscs, beetles, false scorpions; and ants, bees, wasps and sawflies.
- 3.1.24 The records included 33 priority species, one species listed on Annex 2 of the EC Habitats directive, five species protected (partially) under Schedule 5 of the Wildlife and Countryside Act 1981 (as amended) 60 notable / nationally scarce species, and 79 species listed on at least one Red List. Some species are listed under more than one of these categories.
- 3.1.25 Of these, three butterfly species have been recorded within the Project site.
- 3.1.26 The records are shown in Anx Figure 11 and Anx Figure 12 and summarised Table 3.2.2.

**Table 3.2.6. Protected and invertebrate species within 1 km of the Project site.**

Group	Common name	Scientific name	No of records	Nearest distance from the Project (km)	Year of most recent record	Conservation status
Invertebrates - Ants, Bees, Sawflies & Wasps	An Ant, Bee, Sawfly or Wasp	<i>Auplopus carbonarius</i>	8	0.48	2021	N-B
Invertebrates - Ants, Bees, Sawflies & Wasps	Lobe-spurred Furrow Bee	<i>Lasioglossum pauxillum</i>	49	0.48	2021	N-A
Invertebrates - Ants, Bees, Sawflies & Wasps	An Ant, Bee, Sawfly or Wasp	<i>Nysson trimaculatus</i>	1	0.48	2018	N-B
Invertebrates - Ants, Bees, Sawfly or Wasp	An Ant, Bee, Sawfly or Wasp	<i>Pemphredon morio</i>	2	0.48	2021	N-B

Group	Common name	Scientific name	No of records	Nearest distance from the Project (km)	Year of most recent record	Conservation status
Sawflies & Wasps						
Invertebrates - Ants, Bees, Sawflies & Wasps	Hill Cuckoo Bee	<i>Bombus rupestris</i>	37	0.49	2021	N-B
Invertebrates - Ants, Bees, Sawflies & Wasps	An Ant, Bee, Sawfly or Wasp	<i>Dolichovespula saxonica</i>	11	0.49	2021	RL-GB-pre94-Insu
Invertebrates - Ants, Bees, Sawflies & Wasps	Four-spotted Furrow Bee	<i>Lasioglossum quadrinotatum</i>	1	0.49	2020	N-A
Invertebrates - Ants, Bees, Sawflies & Wasps	Hawksbeard Mining Bee	<i>Andrena fulvago</i>	4	0.55	2021	N-A
Invertebrates - Ants, Bees, Sawflies & Wasps	Sharp-collared Furrow Bee	<i>Lasioglossum malachurum</i>	30	0.55	2021	N-B
Invertebrates - Ants, Bees, Sawflies & Wasps	Ridge-cheeked Furrow Bee	<i>Lasioglossum puncticolle</i>	13	0.55	2021	N-B
Invertebrates - Ants, Bees, Sawflies & Wasps	Yellow-shouldered Nomad Bee	<i>Nomada ferruginata</i>	9	0.55	2020	RL-GB-pre94-EN
Invertebrates - Ants, Bees, Sawflies & Wasps	Red-tailed Mason Bee	<i>Osmia bicolor</i>	70	0.55	2021	N-B
Invertebrates - Ants, Bees, Sawflies & Wasps	Painted Nomad Bee	<i>Nomada fucata</i>	3	0.64	2021	N-A
Invertebrates - Ants, Bees, Sawflies & Wasps	Swollen-thighed Blood Bee	<i>Sphecodes crassus</i>	9	0.65	2020	N-B



Group	Common name	Scientific name	No of records	Nearest distance from the Project (km)	Year of most recent record	Conservation status
Invertebrates - Ants, Bees, Sawflies & Wasps	Small Tiphia	<i>Tiphia minuta</i>	6	0.65	2021	N-B
Invertebrates - Ants, Bees, Sawflies & Wasps	An Ant, Bee, Sawfly or Wasp	<i>Dolichovespula media</i>	8	0.66	2020	N-A
Invertebrates - Ants, Bees, Sawflies & Wasps	Dark Blood Bee	<i>Sphecodes niger</i>	1	0.67	2020	RL-GB-pre94-R
Invertebrates - Ants, Bees, Sawflies & Wasps	Big-headed Mining Bee	<i>Andrena bucephala</i>	10	0.68	2020	N-A
Invertebrates - Ants, Bees, Sawflies & Wasps	An Ant, Bee, Sawfly or Wasp	<i>Gorytes laticinctus</i>	1	0.68	2020	RL-GB-pre94-R
Invertebrates - Ants, Bees, Sawflies & Wasps	Long-horned Nomad Bee	<i>Nomada hirtipes</i>	4	0.68	2019	RL-GB-pre94-R
Invertebrates - Ants, Bees, Sawflies & Wasps	An Ant, Bee, Sawfly or Wasp	<i>Priocnemis hyalinata</i>	7	0.68	2021	N-B
Invertebrates - Ants, Bees, Sawflies & Wasps	Large Garden Bumblebee	<i>Bombus ruderatus</i>	1	0.75	2018	S41, N-B
Invertebrates - Ants, Bees, Sawflies & Wasps	Large Sallow Mining Bee	<i>Andrena apicata</i>	1	0.81	2018	N-B
Invertebrates - Ants, Bees, Sawflies & Wasps	Lathbury's Nomad Bee	<i>Nomada lathburiana</i>	3	0.81	2017	RL-GB-pre94-R
Invertebrates - Ants, Bees, Sawflies & Wasps	An Ant, Bee, Sawfly or Wasp	<i>Anoplius caviventris</i>	2	0.83	2021	N-B

Group	Common name	Scientific name	No of records	Nearest distance from the Project (km)	Year of most recent record	Conservation status
Sawflies & Wasps						
Invertebrates - Ants, Bees, Sawflies & Wasps	Ridge-saddled Carpenter Bee	<i>Heriades truncorum</i>	3	0.83	2021	RL-GB-pre94-Insu
Invertebrates - Ants, Bees, Sawflies & Wasps	Trimmer's Mining Bee	<i>Andrena trimmerana</i>	2	0.91	2021	N-B
Invertebrates - Ants, Bees, Sawflies & Wasps	Brown Tree Ant	<i>Lasius brunneus</i>	10	0.94	2021	N-A
Invertebrates - Ants, Bees, Sawflies & Wasps	Large Scabious Mining Bee	<i>Andrena hattorfiana</i>	3	1.15	2020	RL-GB-pre94-R
Invertebrates - Ants, Bees, Sawflies & Wasps	Red-tailed Blood Bee	<i>Sphecodes rubicundus</i>	1	1.15	2020	N-A
Invertebrates - Ants, Bees, Sawflies & Wasps	Brown-Banded Carder Bee	<i>Bombus humilis</i>	12	1.26	2018	S41
Invertebrates - Ants, Bees, Sawflies & Wasps	An Ant, Bee, Sawfly or Wasp	<i>Didineis lunicornis</i>	2	1.26	2021	N-A
Invertebrates - Ants, Bees, Sawflies & Wasps	An Ant, Bee, Sawfly or Wasp	<i>Microdynerus exilis</i>	1	1.26	2020	N-B
Invertebrates - Ants, Bees, Sawflies & Wasps	An Ant, Bee, Sawfly or Wasp	<i>Crossocerus walkeri</i>	1	1.27	2021	N-B
Invertebrates - Ants, Bees, Sawflies & Wasps	An Ant, Bee, Sawfly or Wasp	<i>Stigmus pendulus</i>	1	1.28	2018	RL-GB-pre94-Insu

Group	Common name	Scientific name	No of records	Nearest distance from the Project (km)	Year of most recent record	Conservation status
Invertebrates - Ants, Bees, Sawflies & Wasps	An Ant, Bee, Sawfly or Wasp	<i>Priocnemis confusor</i>	1	1.33	2021	N-B
Invertebrates - Ants, Bees, Sawflies & Wasps	An Ant, Bee, Sawfly or Wasp	<i>Crossocerus distinguendus</i>	2	1.42	2022	N-A
Invertebrates - Ants, Bees, Sawflies & Wasps	An Ant, Bee, Sawfly or Wasp	<i>Chrysis illigeri</i>	1	1.45	2017	N-B
Invertebrates - Ants, Bees, Sawflies & Wasps	Red-shanked Carder Bee	<i>Bombus ruderarius</i>	1	1.85	2017	S41
Invertebrates - Beetles	A Beetle	<i>Nebrioporus depressus</i>	1	0.01	2017	N-B, RL-GB-post2001-NT
Invertebrates - Beetles	A Beetle	<i>Riolus subviolaceus</i>	1	0.03	2016	NS
Invertebrates - Beetles	Stag Beetle	<i>Lucanus cervus</i>	2	0.14	2022	HDir2, WCA5, S41
Invertebrates - Beetles	Rugged Oil-beetle	<i>Meloe rugosus</i>	6	0.15	2020	S41
Invertebrates - Beetles	A Beetle	<i>Kissophagus vicinus</i>	1	0.28	2021	N-B
Invertebrates - Beetles	A Beetle	<i>Larinus carlinae</i>	3	0.44	2021	N-B
Invertebrates - Beetles	Cramp-Ball Fungus Weevil	<i>Platyrhinus resinosus</i>	12	0.44	2021	N-B
Invertebrates - Beetles	A Beetle	<i>Cryptarcha strigata</i>	4	0.45	2021	N-B
Invertebrates - Beetles	A Beetle	<i>Cryptophagus micaceus</i>	21	0.45	2021	RL-GB-pre94-Insu
Invertebrates - Beetles	A Beetle	<i>Cypha pulicaria</i>	8	0.45	2021	N
Invertebrates - Beetles	A Beetle	<i>Enicmus brevicornis</i>	35	0.45	2021	N

Group	Common name	Scientific name	No of records	Nearest distance from the Project (km)	Year of most recent record	Conservation status
Invertebrates - Beetles	A Beetle	<i>Epuraea silacea</i>	3	0.45	2021	RL-GB-pre94-R
Invertebrates - Beetles	A Beetle	<i>Notolaemus unifasciatus</i>	1	0.45	2021	N-A
Invertebrates - Beetles	A Beetle	<i>Orthoperus nigrescens</i>	44	0.45	2021	N-B
Invertebrates - Beetles	Pinhole Borer	<i>Platypus cylindrus</i>	17	0.45	2021	N-B
Invertebrates - Beetles	A Beetle	<i>Plectophloeus nitidus</i>	2	0.45	2019	RL-GB-pre94-VU
Invertebrates - Beetles	A Beetle	<i>Taphrorychus bicolor</i>	19	0.45	2021	N-A
Invertebrates - Beetles	A Beetle	<i>Trinodes hirtus</i>	12	0.45	2021	RL-GB-post2001-NT
Invertebrates - Beetles	A Beetle	<i>Uleiota planatus</i>	13	0.46	2021	N-A
Invertebrates - Beetles	A Beetle	<i>Euplectus tholini</i>	2	0.47	2021	RL-GB-pre94-R
Invertebrates - Beetles	A Beetle	<i>Diplocoelus fagi</i>	5	0.48	2021	N-B
Invertebrates - Beetles	A Beetle	<i>Ernoporicus fagi</i>	7	0.48	2021	N-A
Invertebrates - Beetles	A Beetle	<i>Hylis olexai</i>	3	0.48	2021	RL-GB-pre94-R
Invertebrates - Beetles	A Beetle	<i>Laemophloeus monilis</i>	9	0.48	2021	RL-GB-pre94-EN
Invertebrates - Beetles	A Beetle	<i>Omalium rugatum</i>	6	0.48	2021	N
Invertebrates - Beetles	A Beetle	<i>Orthoperus aequalis</i>	3	0.48	2021	RL-GB-pre94-Insu
Invertebrates - Beetles	A Beetle	<i>Phloeopora corticalis</i>	2	0.48	2021	N
Invertebrates - Beetles	A Beetle	<i>Pseudotriphyllus suturalis</i>	4	0.48	2021	RL-Global-post2001-NT
Invertebrates - Beetles	A Beetle	<i>Scydmaenus rufus</i>	2	0.48	2021	RL-GB-pre94-VU

Group	Common name	Scientific name	No of records	Nearest distance from the Project (km)	Year of most recent record	Conservation status
Invertebrates - Beetles	A Beetle	<i>Atomaria nigriventris</i>	1	0.49	2020	N
Invertebrates - Beetles	Horsetail Weevil	<i>Grypus equiseti</i>	1	0.49	2021	N-B
Invertebrates - Beetles	A Beetle	<i>Aulonothroscus brevicollis</i>	26	0.53	2021	RL-GB-pre94-R
Invertebrates - Beetles	A Beetle	<i>Ernoporicus caucasicus</i>	8	0.53	2021	RL-GB-pre94-EN
Invertebrates - Beetles	A Beetle	<i>Hylis cariniceps</i>	1	0.53	2021	RL-GB-pre94-EN
Invertebrates - Beetles	A Beetle	<i>Symbiotes latus</i>	3	0.53	2021	N-B
Invertebrates - Beetles	A Beetle	<i>Anisandrus dispar</i>	2	0.55	2021	N-B
Invertebrates - Beetles	A Beetle	<i>Carpelimus fuliginosus</i>	1	0.55	2021	N
Invertebrates - Beetles	A Beetle	<i>Dropephylla gracilicornis</i>	9	0.55	2021	N
Invertebrates - Beetles	A Beetle	<i>Enicmus rugosus</i>	8	0.55	2021	N
Invertebrates - Beetles	A Beetle	<i>Silvanus bidentatus</i>	6	0.55	2021	N-B
Invertebrates - Beetles	Ambrosia Beetle	<i>Xyleborus dryographus</i>	5	0.57	2021	N-B
Invertebrates - Beetles	A Beetle	<i>Platystomos albinus</i>	2	0.59	2021	N-B
Invertebrates - Beetles	A Beetle	<i>Ampedus elongatulus</i>	4	0.62	2021	N-A
Invertebrates - Beetles	A Beetle	<i>Phytoecia cylindrica</i>	4	0.62	2021	N-B
Invertebrates - Beetles	A Beetle	<i>Sphindus dubius</i>	11	0.62	2021	N-B
Invertebrates - Beetles	A Beetle	<i>Stenichnus godarti</i>	4	0.62	2021	RL-GB-pre94-R
Invertebrates - Beetles	A Beetle	<i>Zyras haworthi</i>	1	0.62	2021	N-A

Group	Common name	Scientific name	No of records	Nearest distance from the Project (km)	Year of most recent record	Conservation status
Invertebrates - Beetles	A Beetle	<i>Anthonomus chevrolati</i>	1	0.66	2020	RL-GB-pre94-Insu
Invertebrates - Beetles	A Beetle	<i>Rhinocyllus conicus</i>	8	0.66	2020	N-A
Invertebrates - Beetles	A Beetle	<i>Pseudoprotapion astragali</i>	2	0.68	2019	N-A
Invertebrates - Beetles	A Beetle	<i>Quedius scitus</i>	4	0.71	2021	N-B
Invertebrates - Beetles	A Beetle	<i>Gyrophana strictula</i>	1	0.73	2021	N
Invertebrates - Beetles	Cardinal Click Beetle	<i>Ampedus cardinalis</i>	14	0.84	2021	RL-GB-pre94-VU, RL-Global-post2001-NT
Invertebrates - Beetles	A Beetle	<i>Batrisodes venustus</i>	3	0.86	2021	N-A
Invertebrates - Beetles	A Beetle	<i>Anaglyptus mysticus</i>	2	0.93	2019	N-B
Invertebrates - Beetles	A Beetle	<i>Procrærus tibialis</i>	7	1.02	2021	RL-GB-pre94-R
Invertebrates - Beetles	A Beetle	<i>Aleochara discipennis</i>	1	1.05	2021	N
Invertebrates - Beetles	A Beetle	<i>Gyrophana manca</i>	3	1.05	2021	N
Invertebrates - Beetles	A Beetle	<i>Strigocis bicornis</i>	2	1.08	2021	N-B
Invertebrates - Beetles	A Beetle	<i>Atheta difficilis</i>	9	1.10	2021	N
Invertebrates - Beetles	A Beetle	<i>Microrhagus pygmaeus</i>	8	1.10	2021	RL-GB-pre94-R
Invertebrates - Beetles	A Beetle	<i>Calambus bipustulatus</i>	6	1.13	2021	N-B
Invertebrates - Beetles	A Beetle	<i>Scydmorephes helvolus</i>	1	1.13	2021	N
Invertebrates - Beetles	A Beetle	<i>Hydnobius punctatus</i>	1	1.14	2016	N
Invertebrates - Beetles	A Beetle	<i>Malthodes crassicornis</i>	4	1.14	2021	RL-GB-post2001-NT

Group	Common name	Scientific name	No of records	Nearest distance from the Project (km)	Year of most recent record	Conservation status
Invertebrates - Beetles	A Beetle	<i>Anotylus mutator</i>	11	1.15	2021	N
Invertebrates - Beetles	A Beetle	<i>Elater ferrugineus</i>	2	1.15	2021	RL-GB-pre94-EN
Invertebrates - Beetles	A Beetle	<i>Hypnogyra angularis</i>	3	1.16	2021	N-A
Invertebrates - Beetles	A Beetle	<i>Polydrusus flavipes</i>	3	1.18	2021	N-B
Invertebrates - Beetles	A Beetle	<i>Ctenicera pectinicornis</i>	2	1.20	2016	N-A
Invertebrates - Beetles	A Beetle	<i>Paraphotistus nigricornis</i>	1	1.20	2015	RL-GB-pre94-R
Invertebrates - Beetles	A Beetle	<i>Aleochara diversa</i>	3	1.27	2021	N
Invertebrates - Beetles	A Beetle	<i>Choleva glauca</i>	4	1.27	2021	N
Invertebrates - Beetles	A Beetle	<i>Nemozoma elongatum</i>	1	1.27	2021	RL-GB-post2001- VU
Invertebrates - Beetles	A Beetle	<i>Neuraphes praeteritus</i>	1	1.27	2021	N
Invertebrates - Beetles	A Beetle	<i>Scydmorephes sparshalli</i>	1	1.27	2021	RL-GB-pre94-Insu
Invertebrates - Beetles	A Beetle	<i>Aleochara stichai</i>	3	1.33	2021	N
Invertebrates - Beetles	A Beetle	<i>Amarochara bonnairei</i>	1	1.33	2021	RL-GB-pre94-Inde
Invertebrates - Beetles	A Beetle	<i>Atheta pervagata</i>	1	1.33	2021	RL-GB-pre94-Insu
Invertebrates - Beetles	A Beetle	<i>Atheta scapularis</i>	1	1.33	2021	N
Invertebrates - Beetles	A Beetle	<i>Brachysomus hirtus</i>	1	1.33	2021	RL-GB-pre94-R
Invertebrates - Beetles	A Beetle	<i>Leiodes macropus</i>	1	1.33	2021	RL-GB-pre94-Insu
Invertebrates - Beetles	A Beetle	<i>Leiodes strigipennis</i>	2	1.33	2021	RL-GB-pre94-Insu

Group	Common name	Scientific name	No of records	Nearest distance from the Project (km)	Year of most recent record	Conservation status
Invertebrates - Beetles	A Beetle	<i>Stichoglossa semirufa</i>	1	1.33	2021	RL-GB-pre94-Inde
Invertebrates - Beetles	A Beetle	<i>Hypopycna rufula</i>	1	1.34	2021	RL-GB-pre94-Insu
Invertebrates - Beetles	A Beetle	<i>Quedius aetolicus</i>	1	1.34	2021	N-A
Invertebrates - Beetles	A Beetle	<i>Quedius invreae</i>	1	1.34	2021	N-B
Invertebrates - Beetles	A Beetle	<i>Ampedus quercicola</i>	1	1.37	2020	N-B
Invertebrates - Beetles	A Beetle	<i>Grammoptera abdominalis</i>	2	1.38	2021	N-A
Invertebrates - Beetles	A Beetle	<i>Ischnodes sanguinicollis</i>	1	1.41	2016	N-A
Invertebrates - Beetles	A Beetle	<i>Atomaria clavigera</i>	1	1.43	2019	RL-GB-pre94-Insu
Invertebrates - Beetles	A Beetle	<i>Atheta laevana</i>	1	1.48	2020	RL-GB-pre94-Insu
Invertebrates - Beetles	A Beetle	<i>Gyrophana joyi</i>	1	1.50	2021	N
Invertebrates - Beetles	A Beetle	<i>Meligethes gagathinus</i>	1	1.51	2020	N
Invertebrates - Beetles	A Beetle	<i>Cossonus parallelepipedus</i>	2	1.53	2022	N-B
Invertebrates - Beetles	A Beetle	<i>Stenus butrintensis</i>	1	1.54	2020	N
Invertebrates - Beetles	A Beetle	<i>Stenus niveus</i>	1	1.54	2020	N-B
Invertebrates - Beetles	A Beetle	<i>Rhizophagus nitidulus</i>	1	1.55	2019	N-B
Invertebrates - Beetles	A Beetle	<i>Helophorus dorsalis</i>	1	1.59	2020	NS
Invertebrates - Beetles	A Beetle	<i>Ampedus nigrinus</i>	1	1.62	2019	N-B
Invertebrates - Beetles	A Beetle	<i>Coeliodes transversealbofasciatus</i>	1	1.62	2020	N



Group	Common name	Scientific name	No of records	Nearest distance from the Project (km)	Year of most recent record	Conservation status
Invertebrates - Beetles	A Beetle	<i>Globicornis nigripes</i>	3	1.62	2021	RL-GB-post2001-VU
Invertebrates - Beetles	A Beetle	<i>Cryptarcha undata</i>	2	1.63	2021	N-B
Invertebrates - Beetles	A Beetle	<i>Eपुरaea guttata</i>	2	1.63	2021	N-B
Invertebrates - Beetles	A Beetle	<i>Cis festivus</i>	1	1.64	2020	N-B
Invertebrates - Beetles	A Beetle	<i>Axinotarsus pulicarius</i>	1	1.68	2019	RL-GB-post2001-VU
Invertebrates - Beetles	A Beetle	<i>Cypha discoidea</i>	1	1.68	2019	N-B
Invertebrates - Beetles	A Beetle	<i>Dorytomus filirostris</i>	1	1.69	2018	N-B
Invertebrates - Beetles	A Beetle	<i>Magdalis carbonaria</i>	1	1.70	2019	N-B
Invertebrates - Beetles	A Beetle	<i>Polydrusus formosus</i>	3	1.70	2019	N-A
Invertebrates - Beetles	A Beetle	<i>Meligethes haemorrhoidalis</i>	1	1.73	2021	N
Invertebrates - Beetles	A Beetle	<i>Paederus fuscipes</i>	1	1.78	2021	N-B
Invertebrates - Beetles	A Beetle	<i>Clambus pallidulus</i>	1	1.84	2021	RL-GB-post2001-DD
Invertebrates - Beetles	A Beetle	<i>Oligota apicata</i>	1	1.84	2021	N
Invertebrates - Beetles	A Beetle	<i>Sepedophilus testaceus</i>	1	1.84	2021	N
Invertebrates - Beetles	A Beetle	<i>Poecilium alni</i>	3	1.85	2021	N-B
Invertebrates - Beetles	A Beetle	<i>Magdalis cerasi</i>	2	1.87	2021	N-B
Invertebrates - Beetles	A Beetle	<i>Curculio villosus</i>	1	1.88	2019	N-B
Invertebrates - Beetles	A Beetle	<i>Bibloporus minutus</i>	1	1.91	2021	N-B

Group	Common name	Scientific name	No of records	Nearest distance from the Project (km)	Year of most recent record	Conservation status
Invertebrates - Butterflies	Small Heath	<i>Coenonympha pamphilus pamphilus</i>	16	0 (1 record)	2022	S41, RL-GB-post2001-NT
Invertebrates - Butterflies	Common Club-tail	<i>Gomphus vulgatissimus</i>	12	0 (2 records)	2020	RL-GB-post2001-NT
Invertebrates - Butterflies	Black Hairstreak	<i>Satyrrium pruni</i>	19	0 (6 records)	2019	WCA5, RL-GB-post2001-EN
Invertebrates - Butterflies	Brown Hairstreak	<i>Thecla betulae</i>	59	0.02	2020	S41, RL-GB-post2001-VU
Invertebrates - Butterflies	Small Heath	<i>Coenonympha pamphilus</i>	21	0.07	2019	S41, RL-GB-post2001-NT
Invertebrates - Butterflies	White Admiral	<i>Limenitis camilla</i>	8	0.27	2019	S41, RL-GB-post2001-VU
Invertebrates - Butterflies	White-letter Hairstreak	<i>Satyrrium w-album</i>	9	0.33	2019	WCA5, S41, RL-GB-post2001-EN
Invertebrates - Butterflies	Purple Emperor	<i>Apatura iris</i>	15	0.44	2021	WCA5, RL-GB-post2001-NT
Invertebrates - Butterflies	Grizzled Skipper	<i>Pyrgus malvae</i>	1	0.68	2018	S41, RL-GB-post2001-VU
Invertebrates - Dragonflies & Damselflies	Common Darter	<i>Sympetrum striolatum</i>	191	0.04	2022	RL-GB-post2001-DD
Invertebrates - Dragonflies & Damselflies	Scarce Chaser	<i>Libellula fulva</i>	1	0.46	2018	RL-GB-post2001-NT
Invertebrates - Dragonflies & Damselflies	Variable Damselfly	<i>Coenagrion pulchellum</i>	1	1.97	2020	RL-GB-post2001-NT
Invertebrates - False Scorpions	Large Tree-cherne	<i>Dendrochernes cyrneus</i>	2	1.05	2019	RL-GB-pre94-R
Invertebrates - Mayflies	A Mayfly	<i>Baetis fuscatus</i>	1	0.03	2021	RL-GB-post2001-DD
Invertebrates - Mayflies	A Mayfly	<i>Ephemera lineata</i>	2	0.03	2019	RL-GB-post2001-VU
Invertebrates - Molluscs	Roman Snail	<i>Helix (Helix) pomatia</i>	27	0.44	2020	HDir5, WCA5

Group	Common name	Scientific name	No of records	Nearest distance from the Project (km)	Year of most recent record	Conservation status
Invertebrates - Molluscs	Large Black Slug	<i>Arion (Arion) ater</i>	2	0.47	2020	RL-GB-post2001-DD
Invertebrates - Molluscs	Marsh Pond Snail	<i>Stagnicola palustris/fuscus/corvus</i>	5	0.88	2016	RL-GB-post2001-DD
Invertebrates - Moths	Large Nutmeg	<i>Apamea anceps</i>	12	0.07	2018	S41
Invertebrates - Moths	Mottled Rustic	<i>Caradrina morpheus</i>	3	0.07	2017	S41
Invertebrates - Moths	Cinnabar	<i>Tyria jacobaeae</i>	34	0.37	2021	S41
Invertebrates - Moths	Blood-vein	<i>Timandra comae</i>	37	0.62	2021	S41
Invertebrates - Moths	Knot Grass	<i>Acronicta rumicis</i>	10	0.68	2021	S41
Invertebrates - Moths	August Thorn	<i>Ennomos quercinaria</i>	8	0.82	2021	S41
Invertebrates - Moths	Green-brindled Crescent	<i>Allophyes oxyacanthae</i>	16	0.83	2020	S41
Invertebrates - Moths	Minor Shoulder-knot	<i>Brachylochia viminalis</i>	21	0.83	2021	S41
Invertebrates - Moths	Bulrush Veneer	<i>Calamotropha paludella</i>	5	0.83	2021	N-B
Invertebrates - Moths	Buff Ermine	<i>Spilosoma lutea</i>	31	0.83	2021	S41
Invertebrates - Moths	Grey Dagger	<i>Acronicta psi</i>	3	0.92	2020	S41
Invertebrates - Moths	Centre-barred Sallow	<i>Atethmia centrigo</i>	17	0.92	2021	S41
Invertebrates - Moths	Dark Crimson Underwing	<i>Catocala sponsa</i>	1	0.92	2021	S41, RL-GB-pre94-R
Invertebrates - Moths	Lichen Sober	<i>Dichomeris alacella</i>	5	0.92	2021	N
Invertebrates - Moths	Autumnal Rustic	<i>Eugnorisma glareosa</i>	13	0.92	2021	S41
Invertebrates - Moths	Brindled Beauty	<i>Lycia hirtaria</i>	29	0.92	2019	S41

Group	Common name	Scientific name	No of records	Nearest distance from the Project (km)	Year of most recent record	Conservation status
Invertebrates - Moths	Large Wainscot	<i>Rhizedra lutosa</i>	17	0.92	2019	S41
Invertebrates - Moths	Brown-spot Pinion	<i>Anchoscelis litura</i>	9	1.05	2020	S41
Invertebrates - Moths	Deep-brown Dart	<i>Aporophyla lutulenta</i>	15	1.23	2021	S41
Invertebrates - Moths	Latticed Heath	<i>Chiasmia clathrata</i>	1	1.23	2020	S41
Invertebrates - Moths	Beaded Chestnut	<i>Agrochola lychnidis</i>	20	1.32	2019	S41
Invertebrates - Moths	Dark Spinach	<i>Pelurga comitata</i>	1	1.32	2018	S41
Invertebrates - Moths	Least Minor	<i>Photedes captiuncula</i>	1	1.32	2017	RL-GB-pre94-R
Invertebrates - Moths	Balsam Carpet	<i>Xanthorhoe biriviata</i>	1	1.32	2018	RL-GB-pre94-R
Invertebrates - Moths	Dark-barred Twin-spot Carpet	<i>Xanthorhoe ferrugata</i>	3	1.32	2019	S41
Invertebrates - True Bugs	A True Fly	<i>Pocota personata</i>	1	1.07	2020	NS
Invertebrates - True Bugs	A True Fly	<i>Ctenophora pectinicornis</i>	3	1.13	2021	N
Invertebrates - True Bugs	A True Bug	<i>Mycetophila deflexa</i>	1	1.27	2021	RL-GB-post94-DD
Invertebrates - True Flies	False Woodlouse-fly	<i>Eggisops pecchiolii</i>	1	0.44	2020	N
Invertebrates - True Flies	A True Fly	<i>Sarcophaga villeneuvei</i>	1	0.44	2020	RL-GB-pre94-R
Invertebrates - True Flies	A True Fly	<i>Mycomya occultans</i>	1	0.48	2020	NS
Invertebrates - True Flies	A True Fly	<i>Platycheirus sticticus</i>	1	0.53	2017	NS
Invertebrates - True Flies	A True Fly	<i>Cladoneura hirtipennis</i>	3	0.62	2021	NS
Invertebrates - True Flies	A True Fly	<i>Dolichopus virgultorum</i>	5	0.62	2021	NS

Group	Common name	Scientific name	No of records	Nearest distance from the Project (km)	Year of most recent record	Conservation status
Invertebrates - True Flies	A True Fly	<i>Eustalomyia hiliaris</i>	3	0.62	2021	RL-GB-pre94-R
Invertebrates - True Flies	A True Fly	<i>Redtenbacheria insignis</i>	1	0.62	2021	RL-GB-pre94-VU
Invertebrates - True Flies	A True Fly	<i>Tachypeza fuscipennis</i>	2	0.62	2021	NS
Invertebrates - True Flies	A True Fly	<i>Blaesoxipha plumicornis</i>	12	0.64	2020	N
Invertebrates - True Flies	A True Fly	<i>Myopa pellucida</i>	6	0.64	2021	RL-GB-pre94-R
Invertebrates - True Flies	A True Fly	<i>Myolepta dubia</i>	1	0.66	2021	NS
Invertebrates - True Flies	A True Fly	<i>Phaonia siebecki</i>	1	0.66	2017	N
Invertebrates - True Flies	A True Fly	<i>Sarcophaga subulata</i>	1	0.68	2021	N
Invertebrates - True Flies	Variegated Fruit-fly	<i>Phortica variegata</i>	1	0.86	2019	S41, RL-GB-pre94-EN
Invertebrates - True Flies	A True Fly	<i>Neoascia interrupta</i>	1	0.99	2021	NS
Invertebrates - True Flies	A True Fly	<i>Platypalpus miki</i>	1	1.05	2017	NS
Invertebrates - True Flies	A True Fly	<i>Pseudolyciella pallidiventr</i>	1	1.05	2019	RL-GB-post2001-DD
Invertebrates - True Flies	A True Fly	<i>Trichonta fragilis</i>	1	1.05	2017	NS
Invertebrates - True Flies	A True Fly	<i>Meligramma euchromum</i>	1	1.07	2021	NS
Invertebrates - True Flies	A True Fly	<i>Brachyopa bicolor</i>	1	1.13	2021	NS
Invertebrates - True Flies	Wood Snipefly	<i>Rhagio annulatus</i>	1	1.26	2021	RL-GB-post2001-NT
Invertebrates - True Flies	A True Fly	<i>Brachycampta neglecta</i>	2	1.27	2021	NS
Invertebrates - True Flies	A True Fly	<i>Dicranomyia chorea</i>	1	1.27	2021	RL-GB-pre94-R

Group	Common name	Scientific name	No of records	Nearest distance from the Project (km)	Year of most recent record	Conservation status
Invertebrates - True Flies	A True Fly	<i>Grzegorzekia collaris</i>	1	1.27	2021	NS
Invertebrates - True Flies	A True Fly	<i>Helina abdominalis</i>	9	1.27	2021	N
Invertebrates - True Flies	A True Fly	<i>Hercostomus nigrilamellatus</i>	3	1.27	2021	NS
Invertebrates - True Flies	A True Fly	<i>Keroplatus testaceus</i>	3	1.27	2021	NS
Invertebrates - True Flies	A True Fly	<i>Macronychia polyodon</i>	1	1.27	2021	RL-GB-pre94-R
Invertebrates - True Flies	A True Fly	<i>Mycomya insignis</i>	2	1.27	2021	NS
Invertebrates - True Flies	A True Fly	<i>Rymosia spinipes</i>	1	1.27	2021	NS
Invertebrates - True Flies	A True Fly	<i>Fannia gotlandica</i>	1	1.28	2017	N
Invertebrates - True Flies	A True Fly	<i>Eustalomyia vittipes</i>	1	1.32	2021	N
Invertebrates - True Flies	A True Fly	<i>Acnemia amoena</i>	1	1.33	2021	RL-GB-pre94-NT
Invertebrates - True Flies	A True Fly	<i>Lispocephala falculata</i>	1	1.33	2021	N, RL-GB-pre94-R
Invertebrates - True Flies	A True Fly	<i>Rhamphomyia caliginosa</i>	2	1.33	2021	NS
Invertebrates - True Flies	A True Fly	<i>Rhamphomyia lamellata</i>	1	1.33	2021	NS
Invertebrates - True Flies	Drab Wood-soldierfly	<i>Solva marginata</i>	1	1.33	2021	RL-GB-pre94-VU
Invertebrates - True Flies	A True Fly	<i>Homoneura interstincta</i>	1	1.34	2021	RL-GB-pre94-R
Invertebrates - True Flies	A True Fly	<i>Goniglossum wiedemanni</i>	2	1.56	2019	N

## Fish

3.1.27 The ecology desk study identified records of five fish species within the Study Area.

- 3.1.28 None of the species identified within the desk study were from within the Project site.
- 3.1.29 The locations of the fish records are shown in Anx Figure 13 and Anx Figure 14 with the records summarised in Table 3.2.3.

**Table 3.2.7. Protected and notable fish records from within 2 km of the Project site.**

Group	Common name	Scientific name	No. of records	Nearest distance from the Project (km)	Year of most recent record	Conservation status
Fish - Bony	Brown Trout	<i>Salmo trutta subsp. fario</i>	3	<0.01 (1 record)	2015	S41
Fish - Bony	Brown/Sea Trout	<i>Salmo trutta</i>	7	<0.01 (2 records)	2019	S41
Fish - Bony	Bullhead	<i>Cottus gobio</i>	17	<0.01 (1 record)	2021	HDir2np
Fish - Bony	Barbel	<i>Barbus barbus</i>	5	0.17	2018	HDir5, HReg4
Fish - Jawless	Brook Lamprey	<i>Lampetra planeri</i>	1	0.01	2021	HDir2np

### Amphibians and reptiles

- 3.1.30 The ecology desk study identified records of five amphibian species of conservation interest or concern within Study Area. This included Great crested newt which is fully protected under the Wildlife and Countryside Act 1981 (as amended) and the Conservation of Habitats and Species Regulations 2017 (as amended) and common toad which is a priority species. There were no amphibian records within the Project site.
- 3.1.31 The ecology desk study identified records of three reptile species within the Study Area. All three species are priority species and protected under the Wildlife and Countryside Act 1981 (as amended). One species, slow-worm, was recorded from within the Project site.
- 3.1.32 The records are shown in Anx Figure 15 and Anx Figure 16 and summarised in Table 3.2.4.

**Table 3.2.8. Records of Amphibian and reptile species within 2 km of the Project site.**

Group	Common name	Scientific name	No. of records	Nearest distance from the Project (km)	Year of most recent record	Conservation status
Amphibians	Common Frog	<i>Rana temporaria</i>	96	0.02	2022	HDir5, WCA5

Amphibians	Great Crested Newt	<i>Triturus cristatus</i>	567	0.05	2022	HDir2, HDir4, HReg2, WCA5, S41
Amphibians	Smooth Newt	<i>Lissotriton vulgaris</i>	338	0.05	2022	WCA5
Amphibians	Common Toad	<i>Bufo bufo</i>	117	0.43	2021	WCA5, S41
Amphibians	Palmate Newt	<i>Lissotriton helveticus</i>	3	1.73	2021	WCA5
Reptiles	Slow-worm	<i>Anguis fragilis</i>	82	0 (6 records)	2023	S41, WCA5
Reptiles	Common Lizard	<i>Zootoca vivipara</i>	16	0.11	2021	S41, WCA5
Reptiles	Grass Snake	<i>Natrix helvetica</i>	40	0.17	2021	S41, WCA5
Reptiles	Adder	<i>Vipera berus</i>	1	0.34	2015	S41, WCA5

## Birds

- 3.1.33 The ecology desk study identified 116 bird species of conservation interest or concern within the Study Area including nine species recorded within the Project site. The records included 23 species listed on Annex 1 of the EC Birds Directive, 37 species protected under Schedule 1 of the Wildlife and Countryside Act 1981 (as amended), 25 priority species, 37 BoCC Red List species, 60 BoCC Amber List species and four other Red List species. Of these, nine species have been recorded within the Project site.
- 3.1.34 A detailed analysis is provided in Appendix 9.9 Breeding Birds Survey Report of the ES
- 3.1.35 The records are shown on Anx Figure 17 and Anx Figure 18 and summarised in Table 3.2.5.

**Table 3.2.9. Bird species recorded within 2 km of the Project site.**

Common name	Scientific name	No. of records	Nearest distance from the Project (km)	Year of most recent record	Conservation status
Barn owl	<i>Tyto alba</i>	65	0 (1 record)	2022	WCA1
Marsh Tit	<i>Poecile palustris</i>	49	0 (1 record)	2022	S41, BoCC Red
Swift	<i>Apus apus</i>	112	0 (1 record)	2022	BoCC Red
Wheatear	<i>Oenanthe oenanthe</i>	5	0 (1 record)	2021	BoCC Amber
Yellowhammer	<i>Emberiza citrinella</i>	22	0 (1 record)	2022	S41, BoCC Red
Kestrel	<i>Falco tinnunculus</i>	91	0 (17 records)	2022	BoCC Amber



Whitethroat	<i>Curruca communis</i>	28	0 (2 records)	2022	BoCC Amber
Skylark	<i>Alauda arvensis</i>	80	0 (3 records)	2022	S41, BoCC Red
Red Kite	<i>Milvus milvus</i>	111	0 (7 records)	2022	BDir1, WCA1, RL-Global-post2001-NT
Woodpigeon	<i>Columba palumbus</i>	149	0.02	2022	BoCC Amber
Lapwing	<i>Vanellus vanellus</i>	35	0.05	2022	S41, BoCC Red
Mistle Thrush	<i>Turdus viscivorus</i>	31	0.09	2022	BoCC Red
Song Thrush	<i>Turdus philomelos</i>	56	0.09	2022	S41, BoCC Amber
Wren	<i>Troglodytes troglodytes</i>	99	0.09	2022	BoCC Amber
Sparrowhawk	<i>Accipiter nisus</i>	29	0.11	2022	BoCC Amber
Kingfisher	<i>Alcedo atthis</i>	74	0.13	2022	BDir1, WCA1
Mallard	<i>Anas platyrhynchos</i>	234	0.13	2022	Amber
Moorhen	<i>Gallinula chloropus</i>	114	0.13	2022	BoCC Amber
Tawny Owl	<i>Strix aluco</i>	34	0.13	2022	BoCC Amber
Linnet	<i>Linaria cannabina</i>	29	0.14	2022	S41, BoCC Red
Brambling	<i>Fringilla montifringilla</i>	5	0.17	2022	WCA1
Bullfinch	<i>Pyrrhula pyrrhula</i>	33	0.17	2022	S41, BoCC Amber
Dunnock	<i>Prunella modularis</i>	71	0.17	2022	S41, BoCC Amber
Greenfinch	<i>Chloris chloris</i>	26	0.17	2022	BoCC Red
House Sparrow	<i>Passer domesticus</i>	77	0.17	2022	S41, BoCC Red
Quail	<i>Coturnix coturnix</i>	1	0.17	2020	WCA1, BoCC Amber
Rook	<i>Corvus frugilegus</i>	26	0.17	2022	BoCC Amber
Starling	<i>Sturnus vulgaris</i>	72	0.17	2022	S41, BoCC Red
Willow Warbler	<i>Phylloscopus trochilus</i>	37	0.17	2022	BoCC Amber
Green Sandpiper	<i>Tringa ochropus</i>	41	0.19	2022	WCA1, BoCC Amber
Grey Wagtail	<i>Motacilla cinerea</i>	29	0.20	2022	BoCC Amber
Meadow Pipit	<i>Anthus pratensis</i>	48	0.20	2022	BoCC Amber
Yellow Wagtail	<i>Motacilla flava</i>	20	0.20	2022	S41, BoCC Red
House Martin	<i>Delichon urbicum</i>	21	0.22	2022	BoCC Red
Golden Plover	<i>Pluvialis apricaria</i>	3	0.27	2022	BDir1
Reed Bunting	<i>Emberiza schoeniclus</i>	89	0.27	2022	S41, BoCC Amber

Sedge Warbler	<i>Acrocephalus schoenobaenus</i>	23	0.29	2022	BoCC Amber
Cuckoo	<i>Cuculus canorus</i>	49	0.34	2022	S41, BoCC Red
Hobby	<i>Falco subbuteo</i>	29	0.34	2022	WCA1
Stock Dove	<i>Columba oenas</i>	41	0.35	2022	BoCC Amber
Woodcock	<i>Scolopax rusticola</i>	5	0.35	2021	BoCC Red
Cetti's Warbler	<i>Cettia cetti</i>	73	0.38	2022	WCA1
Snipe	<i>Gallinago gallinago</i>	41	0.38	2022	BoCC Amber
Bittern	<i>Botaurus stellaris</i>	6	0.39	2022	BDir1, WCA1, S41, BoCC Amber
Crane	<i>Grus grus</i>	2	0.39	2021	BoCC Amber
Greylag Goose	<i>Anser anser</i>	175	0.39	2022	BoCC Amber
Caspian Gull	<i>Larus cachinnans</i>	11	0.47	2022	BoCC Amber
Great Black-backed Gull	<i>Larus marinus</i>	80	0.47	2022	BoCC Amber
Yellow-legged Gull	<i>Larus michahellis</i>	87	0.47	2022	BoCC Amber
Black-headed Gull	<i>Chroicocephalus ridibundus</i>	187	0.48	2022	BoCC Amber
Fieldfare	<i>Turdus pilaris</i>	20	0.48	2022	WCA1, BoCC Red
Redwing	<i>Turdus iliacus</i>	24	0.48	2022	WCA1, BoCC Amber
Oystercatcher	<i>Haematopus ostralegus</i>	67	0.63	2022	BoCC Amber
Common Redpoll	<i>Acanthis flammea</i>	4	0.65	2020	BoCC Red
Little Ringed Plover	<i>Charadrius dubius</i>	4	0.69	2022	WCA1,
Barnacle goose	<i>Branta leucopsis</i>	32	0.70	2022	BDir1, BoCC Amber
Black tern	<i>Chidonias niger</i>	8	0.70	2021	BDir1, WCA1
Black-necked Grebe	<i>Podiceps nigricollis</i>	4	0.70	2022	WCA1, BoCC Amber
Black-tailed Godwit	<i>Limosa limoas</i>	16	0.70	2022	WCA1, S41, BoCC Red, RL-Global-post2001-NT
Cattle Egret	<i>Bubulcus ibis</i>	17	0.70	2022	BoCC Amber
Common Gull	<i>Larus canus</i>	79	0.70	2022	BoCC Amber
Common Sandpiper	<i>Actitis hypoleucos</i>	53	0.70	2022	BoCC Amber

Common Tern	<i>Sterna hirundo</i>	92	0.70	2022	BoCC Amber
Curlew	<i>Numenius arquata</i>	44	0.70	2022	S41, BoCC Red, RL-Global-post2001-NT
Dunlin	<i>Calidris alpina</i>	27	0.70	2022	BoCC Red
Garganey	<i>Spatula querquedula</i>	5	0.70	2019	WCA1, BoCC Amber
Glossy Ibis	<i>Plegadis falcinellus</i>	4	0.70	2022	BDir1
Goldeneye	<i>Bucephala clangula</i>	70	0.70	2022	WCA1, BoCC Red
Grasshopper Warbler	<i>Locustella naevia</i>	4	0.70	2021	S41, BoCC Red
Great White Egret	<i>Ardea alba</i>	44	0.70	2022	BoCC Amber
Greenshank	<i>Tringa nebularia</i>	3	0.70	2020	WCA1, BoCC Amber
Herring Gull	<i>Larus argentatus</i>	83	0.70	2022	S41, BoCC Red
Lesser Redpoll	<i>Acanthis cabaret</i>	15	0.70	2022	S41
Little Egret	<i>Egretta garzetta</i>	111	0.70	2022	BDir1
Little Gull	<i>Hydrocoloeus minutus</i>	5	0.70	2021	BDir1, WCA1,
Long-tailed Duck	<i>Clangula hyemalis</i>	1	0.70	2021	WCA1, BoCC Red, RL-Global-post2001-VU
Marsh Harrier	<i>Circus aeruginosus</i>	6	0.70	2021	BDir1, WCA1, BoCC Amber
Peregrine	<i>Falco peregrinus</i>	9	0.70	2022	BDir1, WCA1,
Pintail	<i>Anas acuta</i>	6	0.70	2022	WCA1, BoCC Amber
Pochard	<i>Aythya ferina</i>	49	0.70	2022	BoCC Red
Redshank	<i>Tringa totanus</i>	13	0.70	2020	BoCC Amber
Ringed Plover	<i>Charadrius hiaticula</i>	11	0.70	2020	BoCC Red
Ruff	<i>Calidris pugnax</i>	17	0.70	2022	BDir1, WCA1, BoCC Red
Sandwich Tern	<i>Thalasseus sandvicensis</i>	1	0.70	2020	BDir1, BoCC Amber
Shelduck	<i>Tadorna tadorna</i>	47	0.70	2022	BoCC Amber
Shoveler	<i>Spatula clypeata</i>	51	0.70	2022	BoCC Amber
Spotted Redshank	<i>Tringa erythropus</i>	1	0.70	2020	BoCC Amber
Teal	<i>Anas crecca</i>	39	0.70	2022	BoCC Amber
Turnstone	<i>Arenaria interpres</i>	3	0.70	2020	BoCC Amber

White-fronted Goose	<i>Anser albifrons</i>	10	0.70	2021	BoCC Red
Wigeon	<i>Mareca penelope</i>	42	0.70	2022	BoCC Amber
Wood Sandpiper	<i>Tringa glareola</i>	3	0.70	2022	BDir1, WCA1, BoCC Amber
Arctic tern	<i>Sterna paradisaea</i>	10	0.74	2020	BDir1, BoCC Amber
Black-throated Diver	<i>Gavia arctica</i>	1	0.74	2015	BDir1, WCA1, BoCC Amber
Common Scoter	<i>Melanitta nigra</i>	5	0.74	2020	WCA1, S41, BoCC Red
Gadwall	<i>Mareca strepera</i>	77	0.74	2022	BoCC Amber
Great Northern Diver	<i>Gavia immer</i>	6	0.74	2016	BDir1, WCA1, BoCC Amber
Lesser Black-backed Gull	<i>Larus fuscus</i>	65	0.74	2022	BoCC Amber
Little Tern	<i>Sternula albifrons</i>	1	0.74	2018	BDir1, WCA1, BoCC Amber
Mediterranean Gull	<i>Ichthyaetus melanocephalus</i>	37	0.74	2022	BDir1, WCA1, BoCC Amber
Osprey	<i>Pandion haliaetus</i>	1	0.74	2015	BoCC Amber
Red-necked Grebe	<i>Podiceps grisegena</i>	15	0.74	2016	BoCC Red
Ruddy Shelduck	<i>Tadorna ferruginea</i>	2	0.74	2017	BDir1
Sanderling	<i>Calidris alba</i>	5	0.74	2017	BoCC Amber
Scaup	<i>Aythya marila</i>	5	0.74	2019	WCA1, S41, BoCC Red
Shag	<i>Gulosus aristotelis</i>	2	0.74	2017	BoCC Red
Slavonian Grebe	<i>Podiceps auritus</i>	2	0.74	2019	BDir1, WCA1, BoCC Red
Firecrest	<i>Regulus ignicapilla</i>	1	0.82	2016	WCA1
Purple heron	<i>Ardea purpurea</i>	1	0.88	2021	BDir1, WCA1
Grey Partridge	<i>Perdix perdix</i>	3	0.91	2020	S41, BoCC Red
Corn Bunting	<i>Emberiza calandra</i>	1	1.00	2020	S41, BoCC Red
Smew	<i>Mergellus albellus</i>	3	1.07	2019	BDir1, WCA1, BoCC Red
Crossbill	<i>Loxia curvirostra</i>	2	1.32	2020	WCA1
Goshawk	<i>Accipiter gentilis</i>	1	1.32	2019	WCA1
Spotted Flycatcher	<i>Muscicapa striata</i>	4	1.32	2021	S41, BoCCRed

Tree Sparrow     *Passer montanus*     1     1.37     2017     S41, BoCC Red

## Bats

3.1.36     The ecology desk study identified at least 17 bat species within the Study Area. All of these species are protected under the Wildlife and Countryside Acts 1981 (as amended) and the Conservation of Habitats and Species Regulations 2017 (as amended). Five species are also priority species under the NERC Act 2006.

3.1.37     Of these species seven species were recorded within the Project site.

3.1.38     The records are shown in Anx Figure 19 and summarised in Table 3.2.6.

**Table 3.2.10.     Records of bats within 10 km of the Project site.**

Common Name	Scientific Name	No. of records	Nearest distance from the Project (km)	Year of most recent record	Conservation Status
Daubenton's Bat	<i>Myotis daubentonii</i>	301	0 (1 record)	2023	HDir4, HReg2, WCA5
Natterer's Bat	<i>Myotis nattereri</i>	193	0 (1 record)	2023	HDir4, HReg2, WCA5
Western Barbastelle	<i>Barbastella barbastellus</i>	257	0 (1 record)	2023	HDir2, HDir4, HReg2, WCA5, S41, VU
Brown Long-eared Bat	<i>Plecotus auritus</i>	805	0 (2 records)	2022	HDir4, HReg2, WCA5, S41,
Common Pipistrelle	<i>Pipistrellus pipistrellus</i>	1796	0 (2 records)	2023	HDir4, HReg2, WCA5
Noctule Bat	<i>Nyctalus noctula</i>	870	0 (2 records)	2023	HDir4, HReg2, WCA5, S41
Soprano Pipistrelle	<i>Pipistrellus pygmaeus</i>	1570	0 (2 records)	2023	HDir4, HReg2, WCA5, S41
Long-eared Bat species	<i>Plecotus</i>	36	0.02	2018	HDir4, HReg2, WCA5, RL-GB-post2001-EN
Myotis Bat species	<i>Myotis</i>	751	0.02	2022	HDir2, HDir4, HReg2, WCA5, RL-GB-post2001-CR/DD
Nathusius's Pipistrelle	<i>Pipistrellus nathusii</i>	143	0.02	2023	HDir4, HReg2, WCA5, RL-GB-post2001-NT

Common Name	Scientific Name	No. of records	Nearest distance from the Project (km)	Year of most recent record	Conservation Status
Nyctalus Bat species	<i>Nyctalus</i>	132	0.02	2021	HDir4, HReg2, WCA5, RL-GB-post2001-NT
Pipistrelle Bat species	<i>Pipistrellus</i>	546	0.02	2022	HDir4, HReg2, WCA5, RL-GB-post2001-NT
Serotine	<i>Eptesicus serotinus</i>	227	0.02	2022	HDir4, HReg2, WCA5, RL-GB-post2001-VU
Leisler's Bat	<i>Nyctalus leisleri</i>	241	0.13	2022	HDir4, HReg2, WCA5, RL-GB-post2001-NT
Greater Horseshoe Bat	<i>Rhinolophus ferrumequinum</i>	1	0.19	2014	HDir2, HDir4, HReg2, WCA5, S41
Lesser Horseshoe Bat	<i>Rhinolophus hipposideros</i>	20	0.19	2021	HDir2, HDir4, HReg2, WCA5, S41
Bat	<i>Chiroptera.</i>	241	0.35	2023	HDir2, HDir4, HReg2, WCA5, S41, RL-Global-post2001-CR/ EN/VU/NT/DD
Whiskered Bat	<i>Myotis mystacinus</i>	21	0.43	2022	HDir4, HReg2, WCA5, RL-GB-post2001-DD
Whiskered/Brandt's Bat	<i>Myotis mystacinus/brandtii</i>	69	1.14	2017	HReg2, WCA5
Alcathoe Bat	<i>Myotis alcathoe</i>	4	2.23	2017	HDir4, HReg2, WCA5, RL-Global-post2001-DD
Brandt's bat	<i>Myotis brandtii</i>	2	8.78	2021	HDir4, HReg2, WCA5, RL-GB-post2001-DD

## Otter and other mammals

- 3.1.39 The desk study identified one record of otter and records of six other mammal species of conservation interest or concern within the Study Area.
- 3.1.40 Six species have been recorded within the Project site: otter *Lutra lutra*, badger *Meles meles*, brown hare *Lepus europaeus*, European water vole *Arvicola amphibius*, hazel dormouse *Muscardinus avellanarius*, and West European hedgehog *Erinaceus europaeus*.

3.1.41 The records are shown on Anx Figure 19 to Anx Figure 23 and summarised in Table 3.2.7.

**Table 3.2.11. Records of otter within 5k m of the Project site and other terrestrial mammals (excluding bats) within 2 km of the Project site.**

Common name	Scientific name	No. of records	Nearest distance from the Project (km)	Year of most recent record	Conservation status
Brown Hare	<i>Lepus europaeus</i>	102	0 (27 records)	2021	S41
Eurasian Badger	<i>Meles meles</i>	226	0 (17 records)	2023	PBA
Eurasian Otter	<i>Lutra lutra</i>	119	0 (7 records)	2023	HDir2, HDir4, HReg2, WCA5, S41
European Water Vole	<i>Arvicola amphibius</i>	33	0 (8 records)	2022	WCA5, S41, RL-GB-post2001-EN
Hazel Dormouse	<i>Muscardinus avellanarius</i>	5	0 (1 record)	2014	HDir4, HReg2, WCA5, S41
West European Hedgehog	<i>Erinaceus europaeus</i>	355	0 (3 records)	2022	S41, RL-GB-post2001-VU
Polecat	<i>Mustela putorius</i>	1	1.45	2014	HDir5, HReg4, S41

**Invasive non-native species.**

3.1.42 The desk study identified records of 22 non-native invasive species within the Study Area, comprising one mammal, one bird six invertebrates (all aquatic crustaceans or molluscs) and 15 flowering plants. There were no records from within the Project site.

3.1.43 The records are shown on Anx Figure 24 and Anx Figure 25 and summarised in Table 3.2.8.

**Table 3.2.12. Invasive non-native species within 2 km of the Project site.**

Group	Common Name	Scientific Name	No. of records	Nearest distance from the Project (km)	Year of most recent record	Invasive status
Birds	Ruddy Duck	<i>Oxyjura jamaicensis</i>	2	0.70	2020	INNS-Other-2015, WCA-9, SoSC

Group	Common Name	Scientific Name	No. of records	Nearest distance from the Project (km)	Year of most recent record	Invasive status
Flowering Plants	Himalayan Balsam	<i>Impatiens glandulifera</i>	12	0.01	2021	INNS-Priority-2015, WCA-9, SoSC
Flowering Plants	Canadian Waterweed	<i>Elodea canadensis</i>	2	0.03	2020	INNS-Priority-2015, WCA-9
Flowering Plants	Tree-of-heaven	<i>Ailanthus altissima</i>	1	0.05	2018	INNS-Other-2015, SoSC
Flowering Plants	Butterfly Bush	<i>Buddleja davidii</i>	17	0.05	2022	INNS-Other-2015
Flowering Plants	Japanese Knotweed	<i>Reynoutria japonica</i>	4	0.10	2021	INNS-Priority-2015, WCA-9
Flowering Plants	Russian-vine	<i>Fallopia baldschuanica</i>	3	0.13	2020	INNS-Other-2015
Flowering Plants	Italian Alder	<i>Alnus cordata</i>	4	0.21	2020	INNS-Other-2015
Flowering Plants	Rhododendron	<i>Rhododendron ponticum</i>	5	0.36	2017	INNS-Other-2015, WCA-9
Flowering Plants	Orange Balsam	<i>Impatiens capensis</i>	8	0.38	2021	INNS-Other-2015
Flowering Plants	Winter Heliotrope	<i>Petasites fragrans</i>	4	0.50	2020	INNS-Other-2015
Flowering Plants	Nuttall's Waterweed	<i>Elodea nuttallii</i>	5	0.88	2020	INNS-Priority-2015, SoSC
Flowering Plants	Curly Waterweed	<i>Lagarosiphon major</i>	3	0.88	2016	INNS-Priority-2015, SoSC
Flowering Plants	Three-cornered Garlic	<i>Allium triquetrum</i>	1	1.59	2019	INNS-Other-2015, WCA-9
Flowering Plants	Giant Hogweed	<i>Heracleum mantegazzianum</i>	1	1.85	2021	INNS-Other-2015, WCA-9, SoSC
Invertebrates - Crustaceans	None	<i>Crangonyx pseudogracilis/floridanus</i>	20	<0.01 (1 record)	2021	INNS-Other-2015
Invertebrates - Crustaceans	Signal crayfish	<i>Pacifastacus leniusculus</i>	14	0.01	2021	INNS-Priority-2015, WCA-9, SoSC
Invertebrates - Crustaceans	None	<i>Chelicorophium curvispinum</i>	5	0.03	2019	INNS-Rapid-2015



Group	Common Name	Scientific Name	No. of records	Nearest distance from the Project (km)	Year of most recent record	Invasive status
Invertebrates - Crustaceans	Demon Shrimp	<i>Dikerogammarus haemobaphes</i>	7	0.03	2021	INNS-Rapid-2015
Invertebrates - Molluscs	Zebra mussel	<i>Dreissena polymorpha</i>	2	0.03	2020	INNS-Priority-2015
Invertebrates - Molluscs	Quagga Mussel	<i>Dreissena rostriformis bugensis</i>	1	0.03	2019	INNS-Rapid-2015, INNS-Other-2015
Mammals	American Mink	<i>Neovison vison</i>	2	0.10	2021	INNS-Priority-2015, WCA-9

## 4 Summary

4.1.1 The desk study identified the following nature conservation sites within the Study Area:

- Two internationally designated nature conservation sites;
- 21 national statutory designated nature conservation sites;
- 57 non-statutory designated nature conservation sites including four sites which partially overlap with the Site;
- One NIA, The Cotswold Valleys NIA, in the West Oxfordshire Local Plan within 2 km of the Project site;
- Oxfordshire Green Belt which overlaps with a significant extent of the Project Site;
- Four priority habitats within the Site (coastal and floodplain grazing marsh, possible priority grassland, lowland mixed deciduous woodland and rivers) and a further 12 priority habitats outside of but within 2 km of the Project site;
- 91 Ancient Woodland Inventory sites of which one (Bladon Heath) falls partly within the Project site;
- Two trees listed on the ancient tree inventory within the Project site (both Veteran trees) and a further three veteran trees outside of but within 50 m of the Project site.

4.1.2 The desk study identified the following records of protected or otherwise notable species within the Study Area:

- 88 flowering plants, one fern, eight fungi and 13 lichens of which seven flowering plants have been recorded within the Project site;
- 244 terrestrial invertebrates of which three have been recorded within the Project site;
- Five fish species, none within the Project site;
- Five amphibian species (including great crested newts), none within the Project site;
- Four reptile species of which only slow-worm was recorded within the Project site.
- 116 bird species of which nine were recorded within the Project site (barn owl, kestrel, marsh tit red kite, skylark, swift, wheatear, whitethroat, and yellowhammer);
- 17 bat species of which seven species were recorded within the Project site (brown long-eared bat, common pipistrelle, Daubenton's bat, Natterer's bat, noctule, soprano pipstrelle and barbastelle);
- 119 records of otter including seven within the Project site;

- 226 records of badger including 17 within the Project site; and,
- Records of six other mammal species including four species within the Project site: brown hare, European hedgehog, European water vole and hazel dormouse.

#### 4.1.3

The desk study also identified records of 22 non-native invasive species within the Study Area comprising one mammal, one bird, six invertebrates (all aquatic crustaceans or molluscs) and 15 flowering plants. There were no records from within the Project site.

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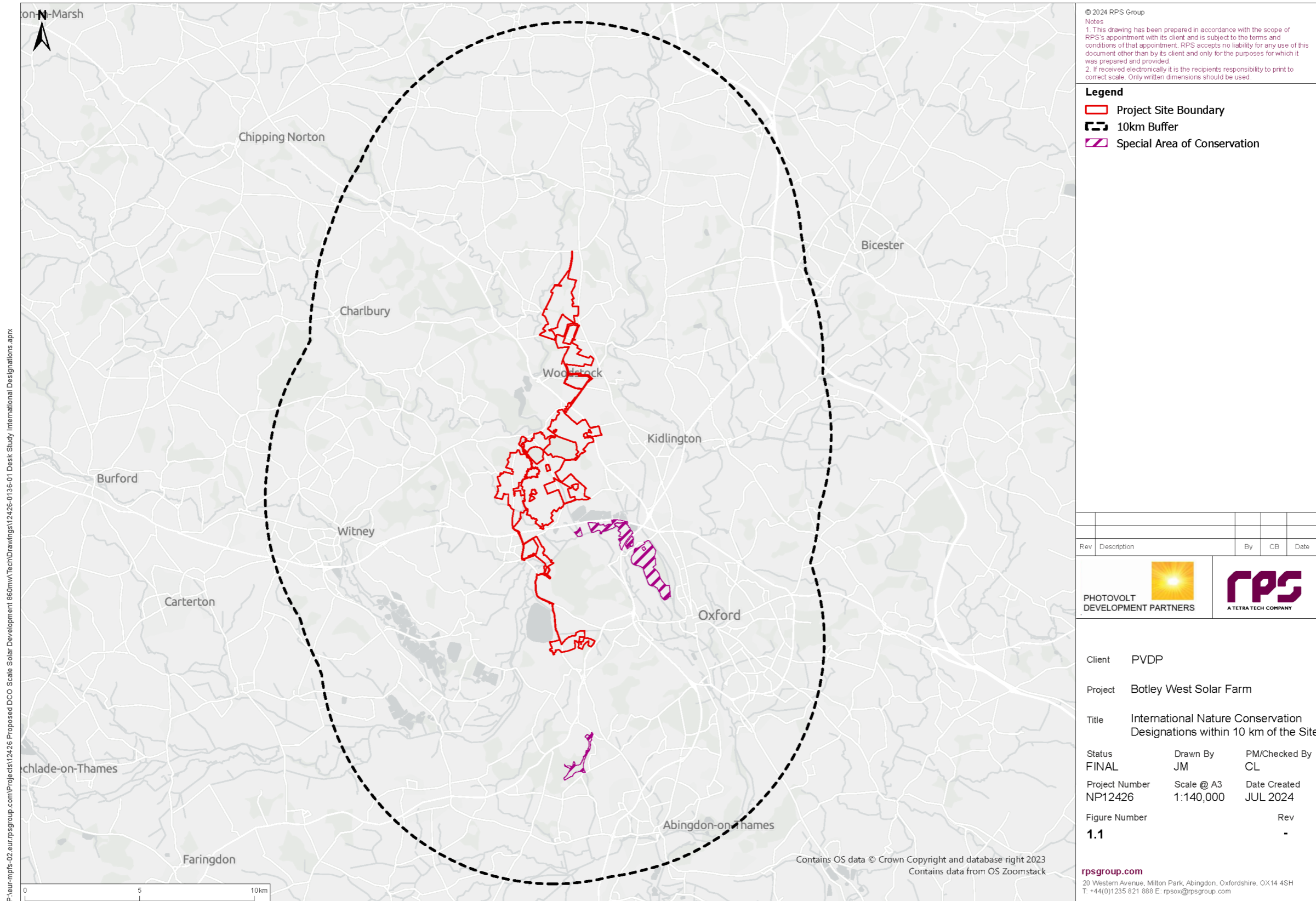
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# Annex A

## Figures

**Anx Figure 1 International nature conservation designation within 10km of the Project site.**



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**Legend**  
 Project Site Boundary  
 10km Buffer  
 Special Area of Conservation

Rev	Description	By	CB	Date

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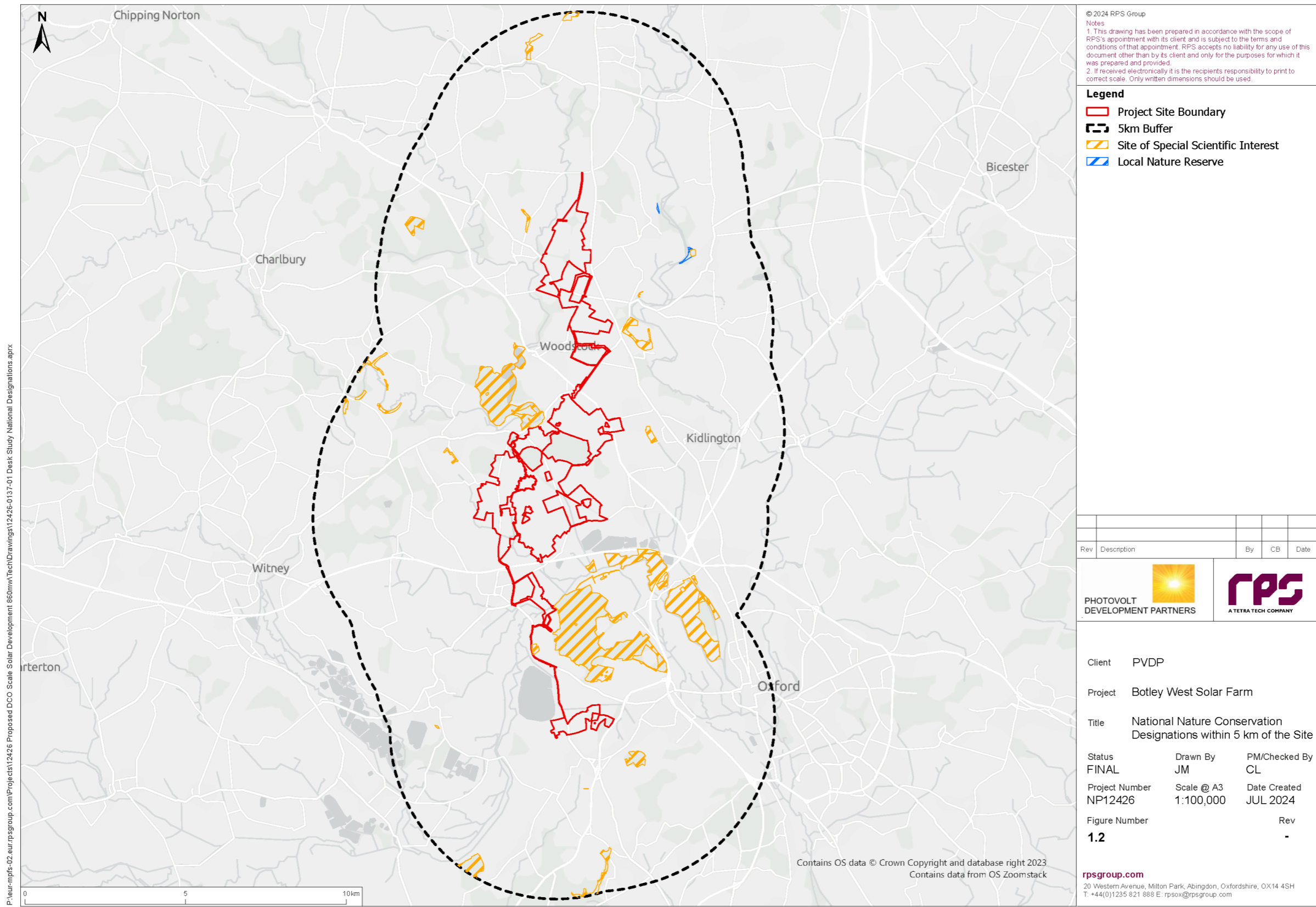
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 Status FINAL Drawn By JM PM/Checked By CL  
 Project Number NP12426 Scale @ A3 1:140,000 Date Created JUL 2024  
 Figure Number 1.1 Rev -

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**Anx Figure 2 National nature conservation designation within 5km of the Project site.**



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- Legend**
- Project Site Boundary
  - 5km Buffer
  - Site of Special Scientific Interest
  - Local Nature Reserve

Rev	Description	By	CB	Date

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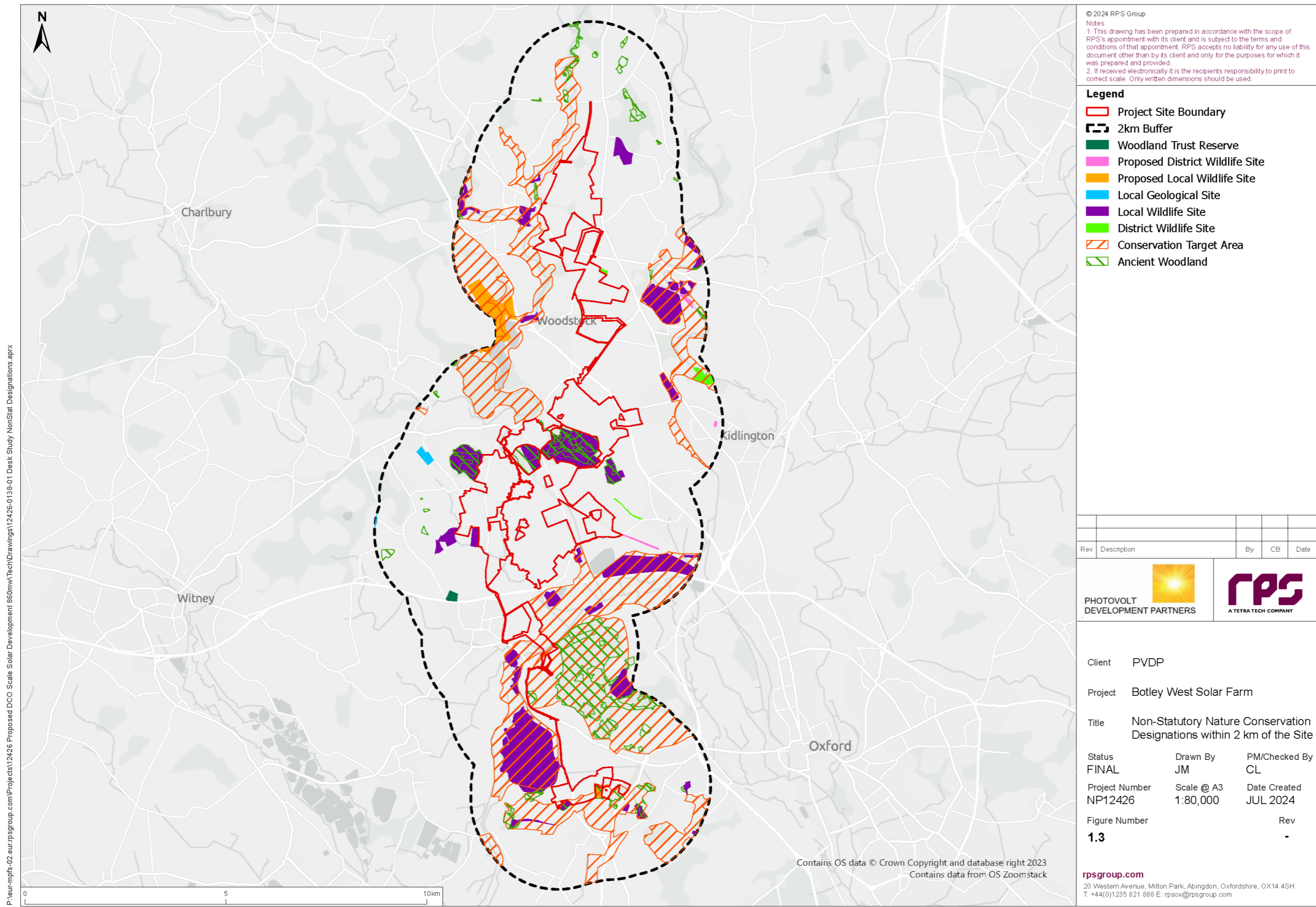
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Scale @ A3 1:100,000  
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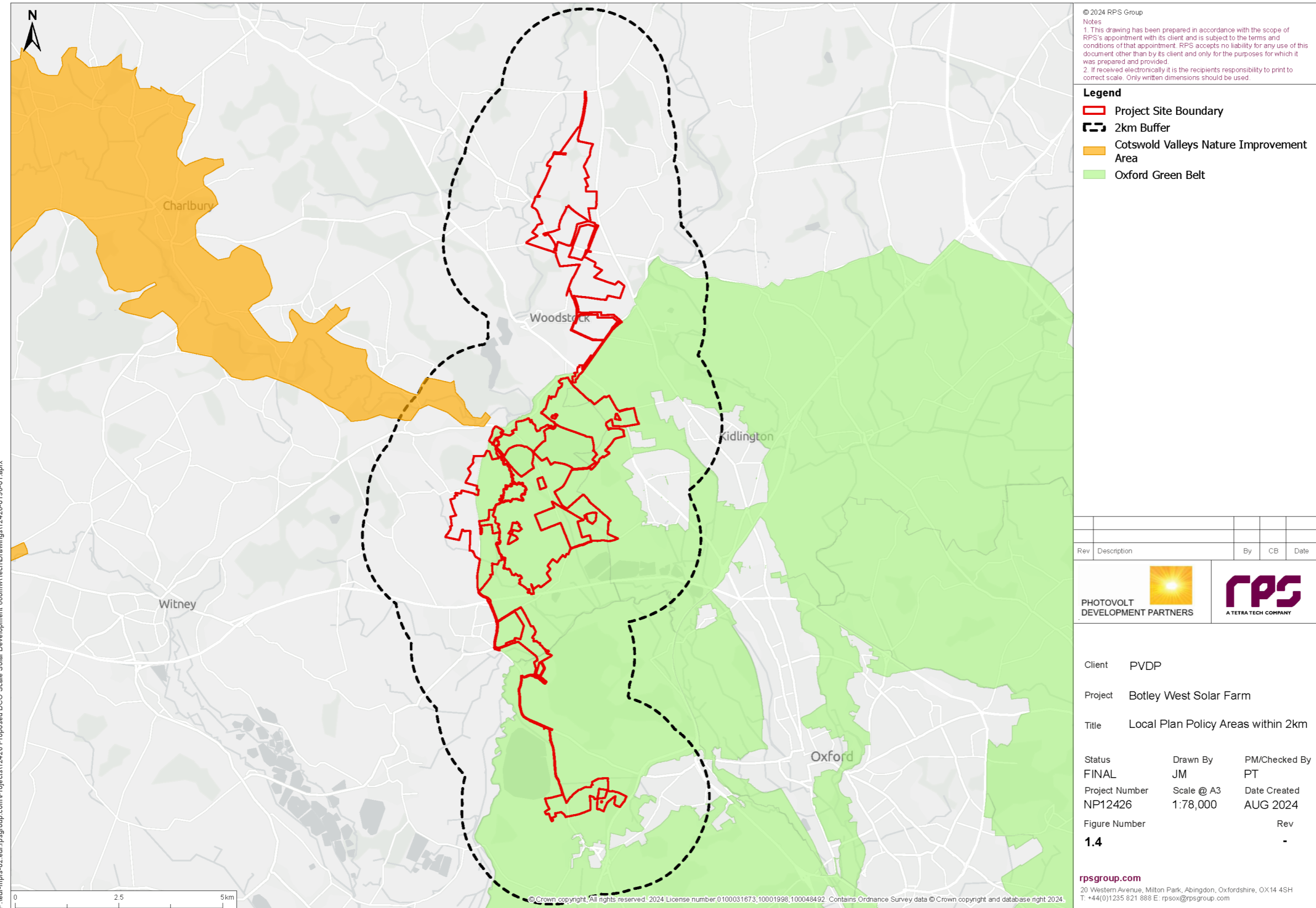
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**Anx Figure 3 Non-statutory nature conservation designations within 2 km of the Project site.**

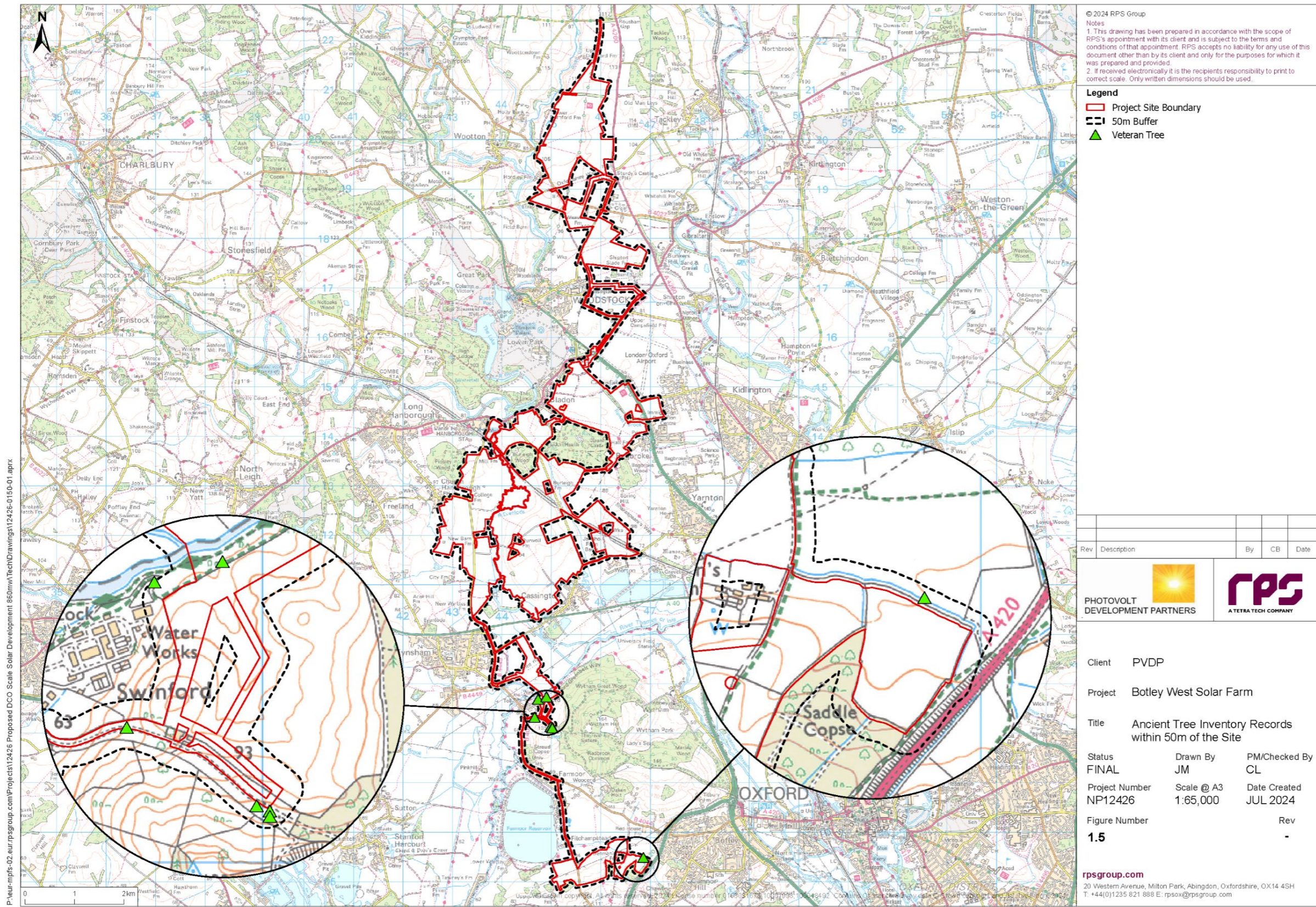




Anx Figure 4 Local plan policy areas within 2km of the Project site.

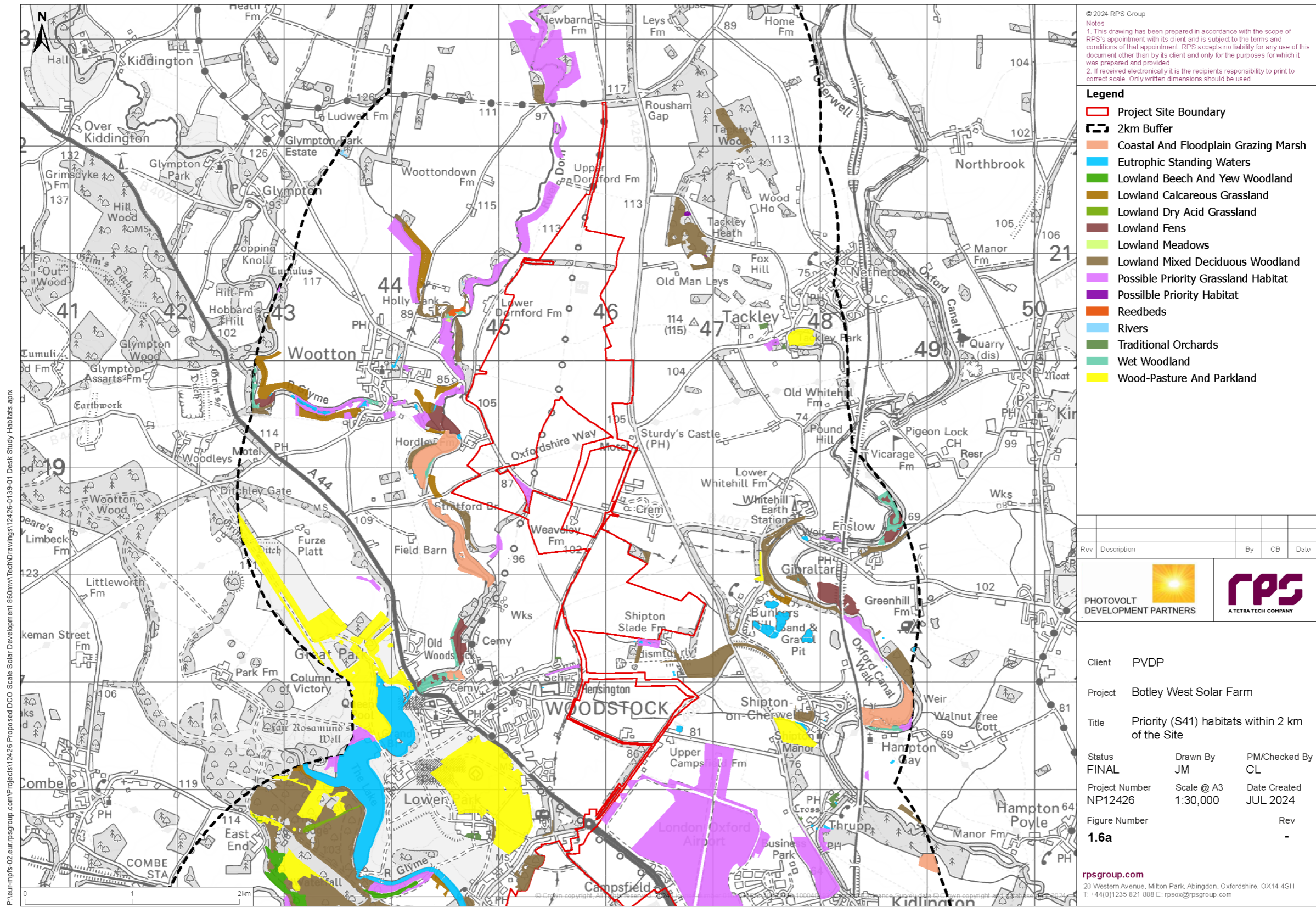


**Anx Figure 5 Ancient Tree Inventory trees within 50m of the Project site.**

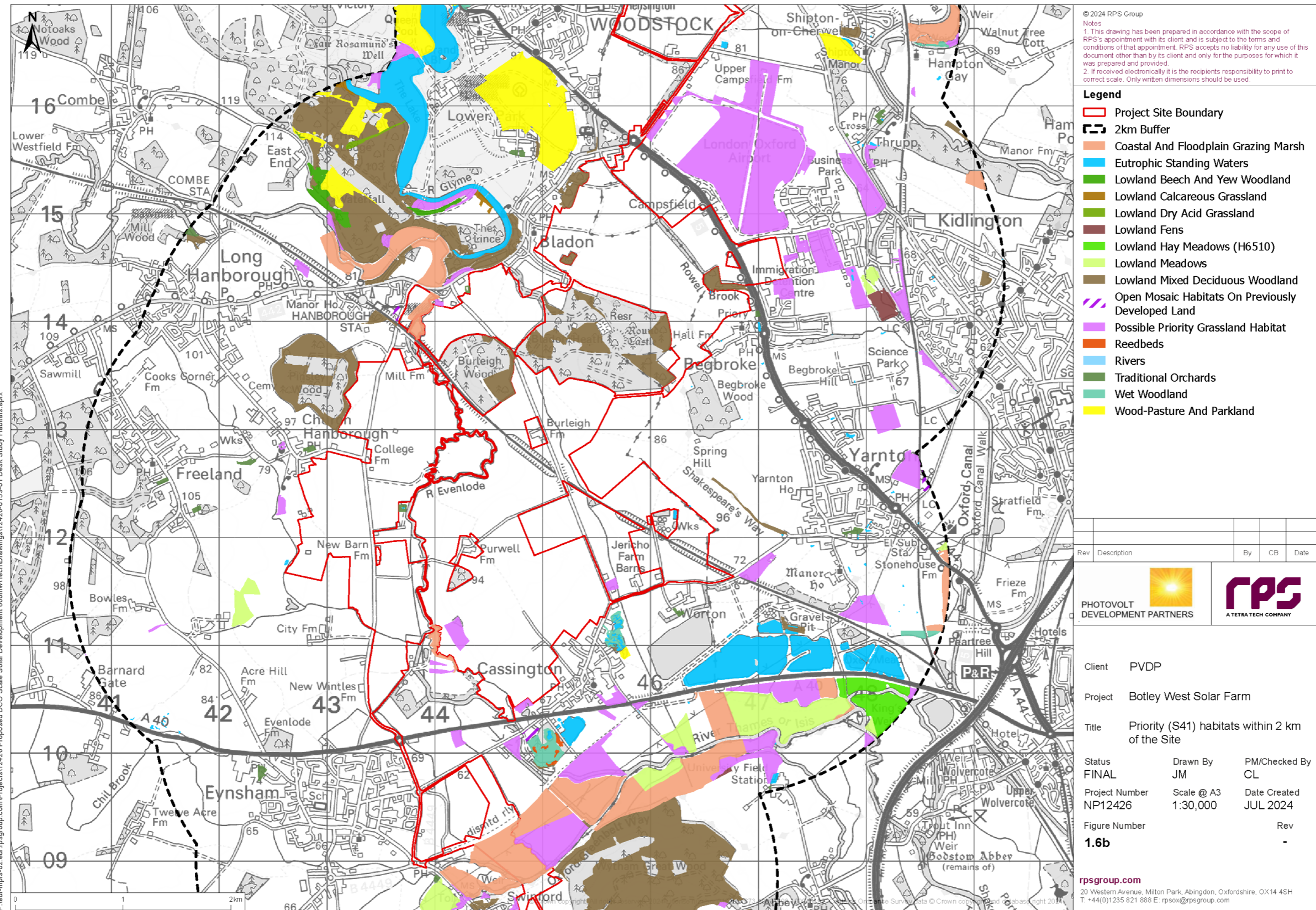


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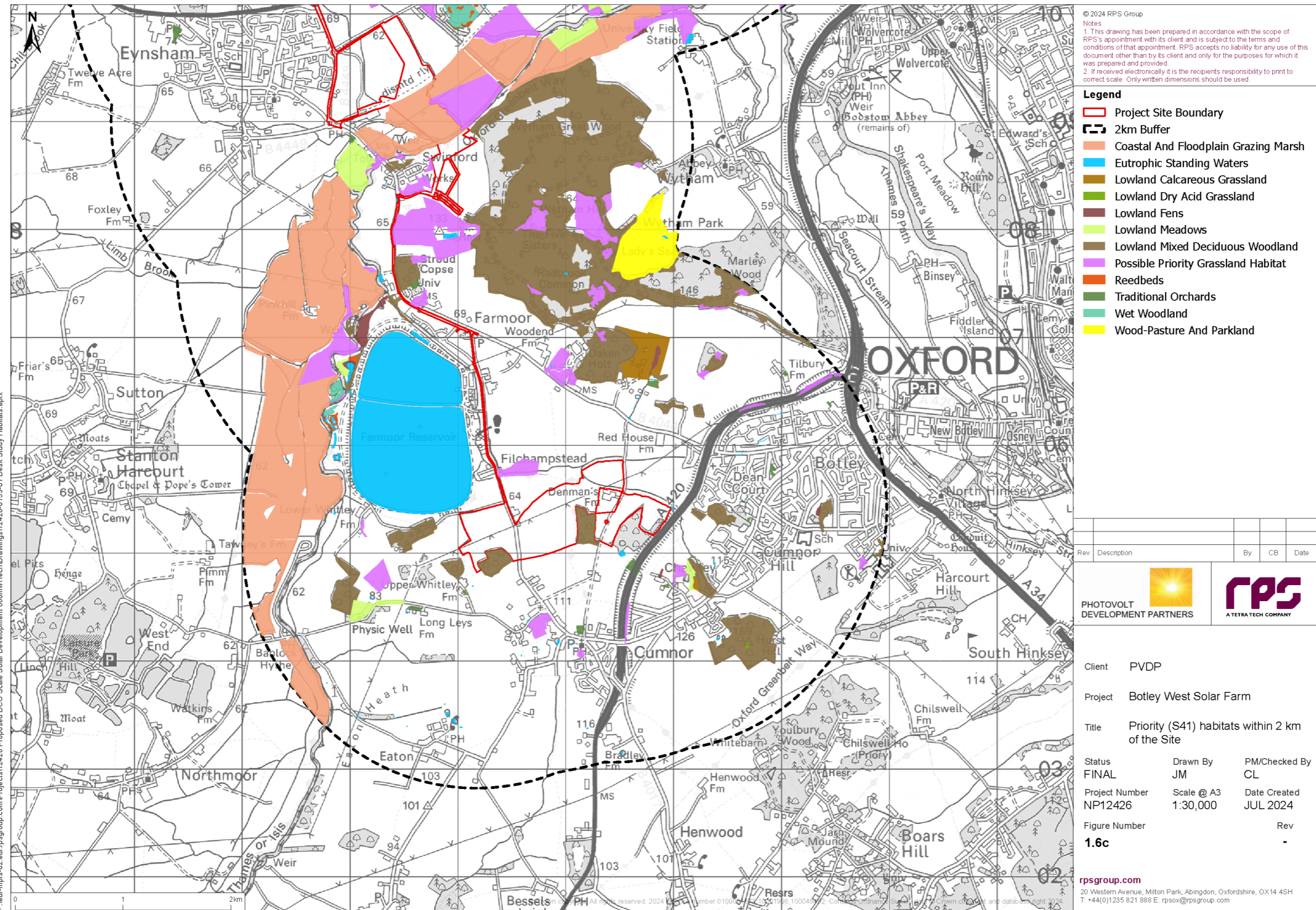
**Anx Figure 6 Priority (S41) habitats within 2 km of the Project site (1 of 3).**



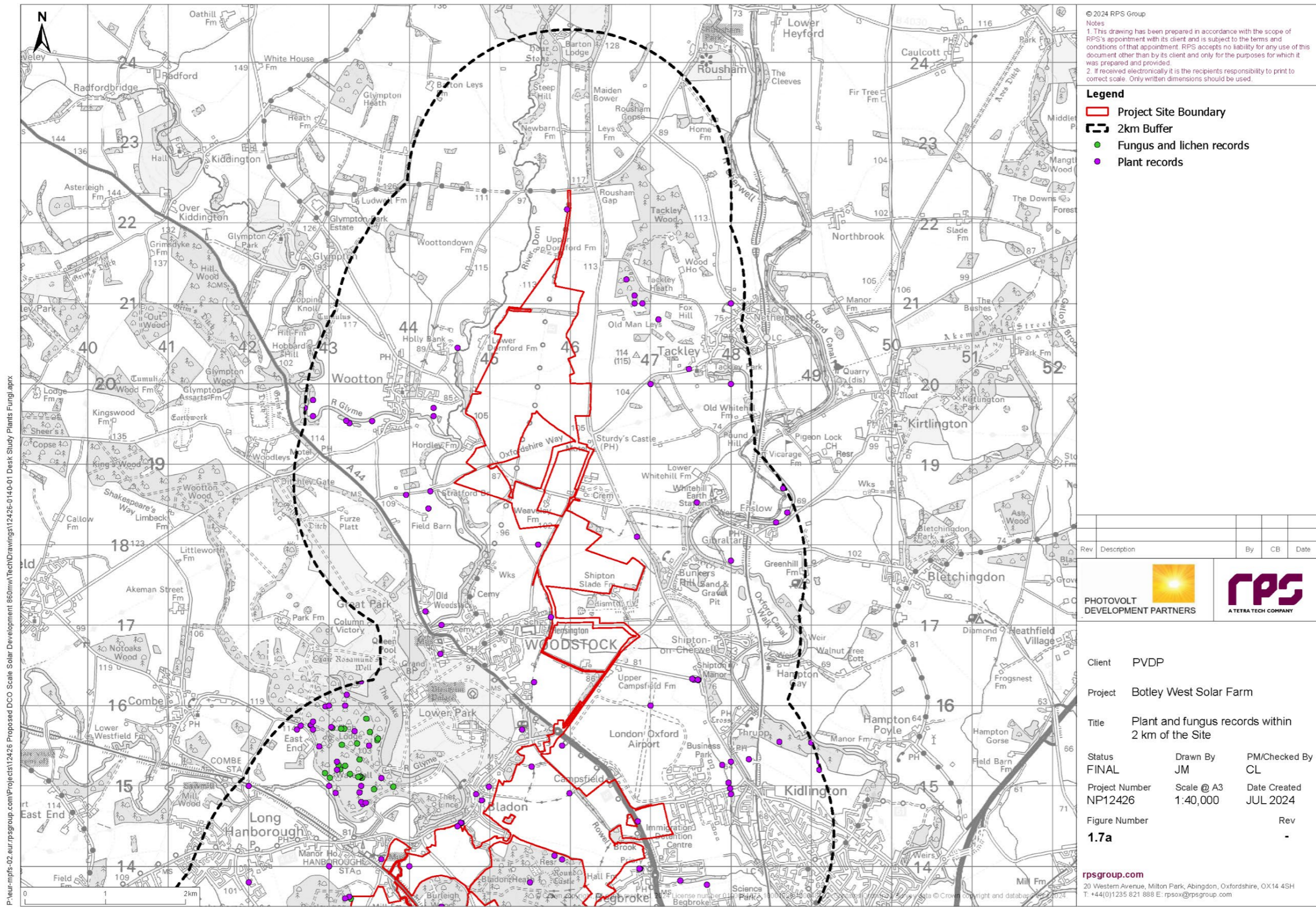
Anx Figure 7 Priority (S41) habitats within 2 km of the Project site (2 of 3).



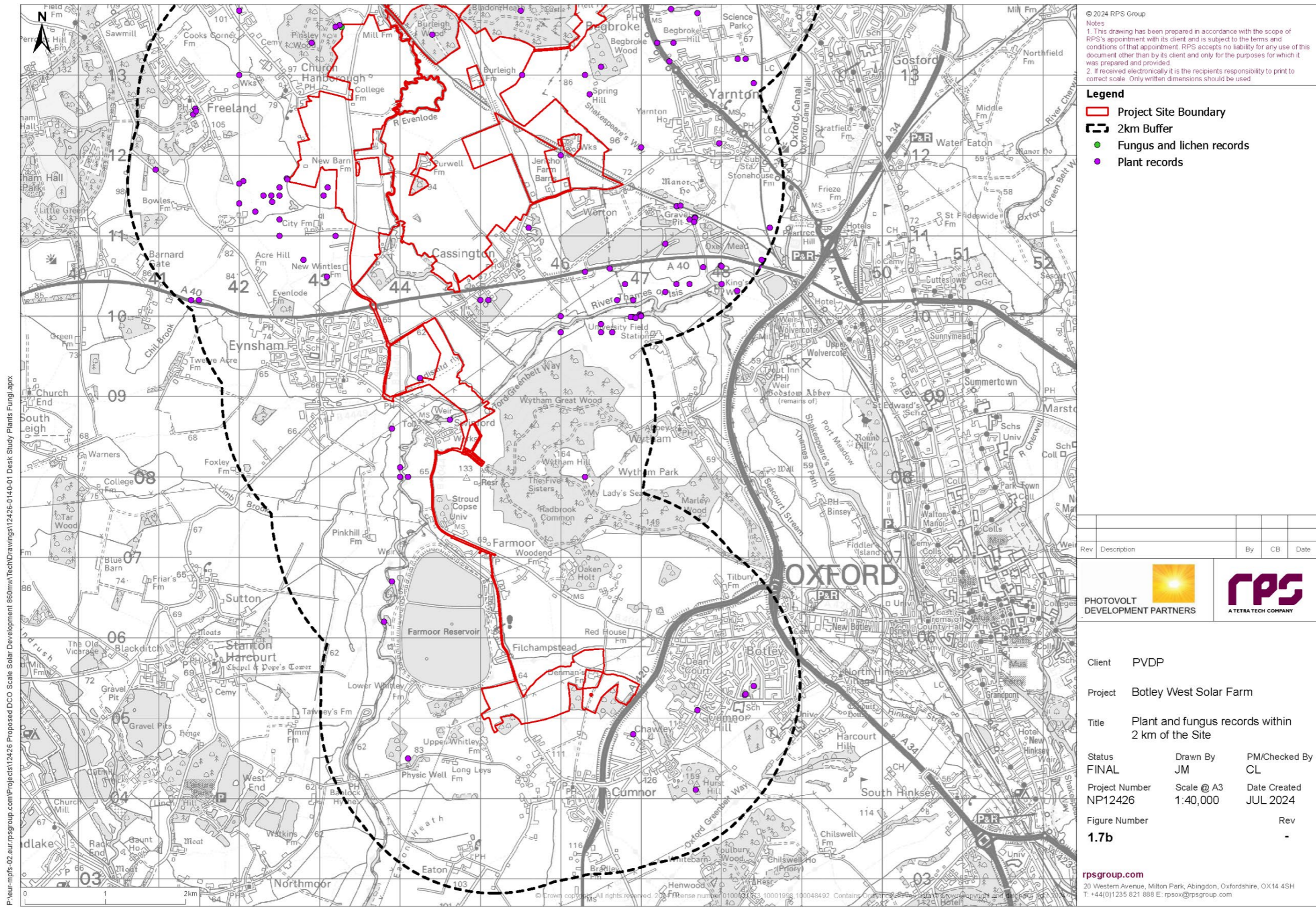
**Anx Figure 8 Priority (S41) habitats within 2 km of the Project site (3 of 3).**



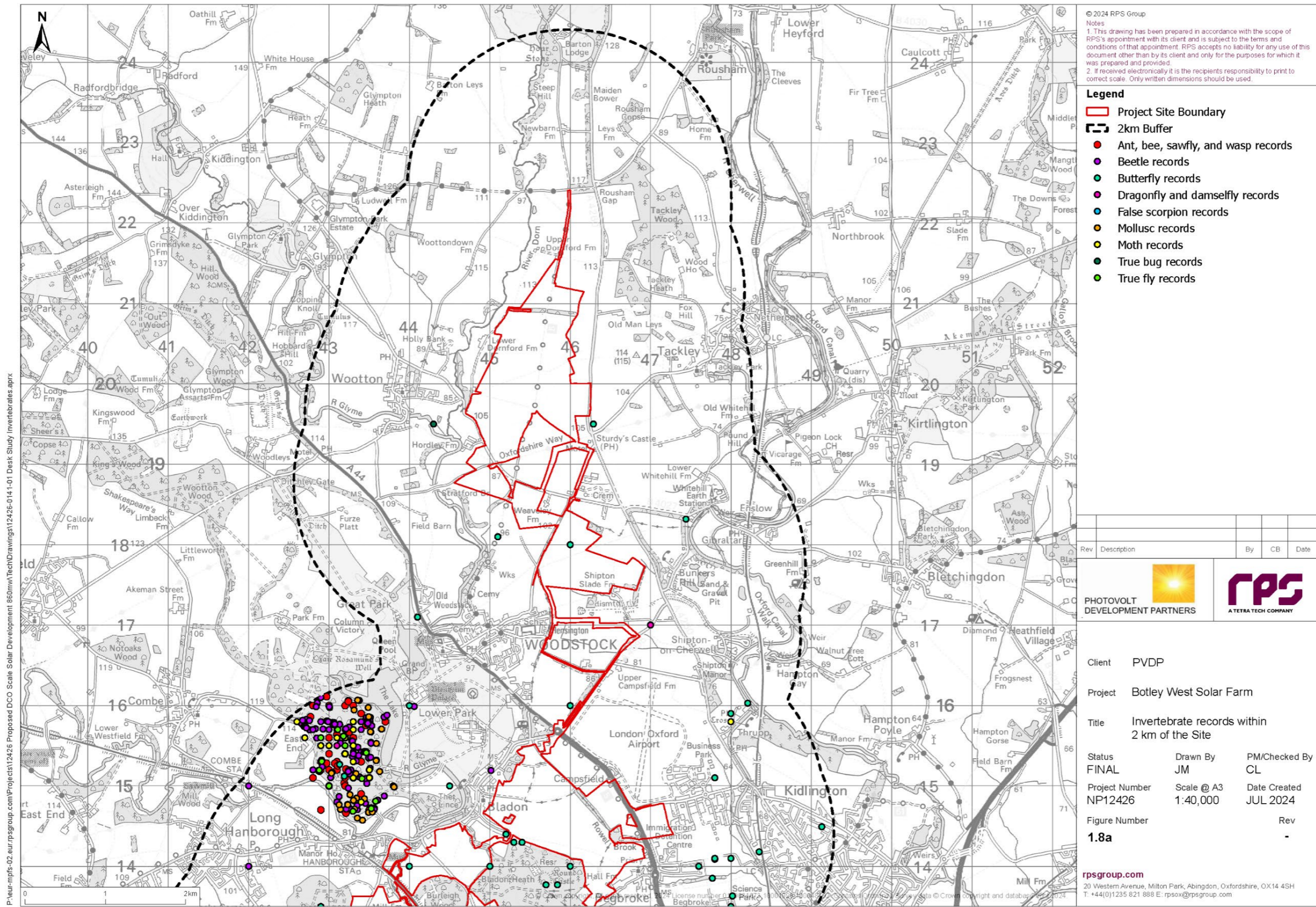
**Anx Figure 9 Plant and fungus records within 2 km of the Project site (1 of 2).**



Anx Figure 10 Plant and fungus records within 2 km of the Project site (2 of 2).



**Anx Figure 11 Invertebrate records within 2 km of the Project site (1 of 2).**



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- Legend**
- Project Site Boundary
  - 2km Buffer
  - Ant, bee, sawfly, and wasp records
  - Beetle records
  - Butterfly records
  - Dragonfly and damselfly records
  - False scorpion records
  - Mollusc records
  - Moth records
  - True bug records
  - True fly records

Rev	Description	By	CB	Date

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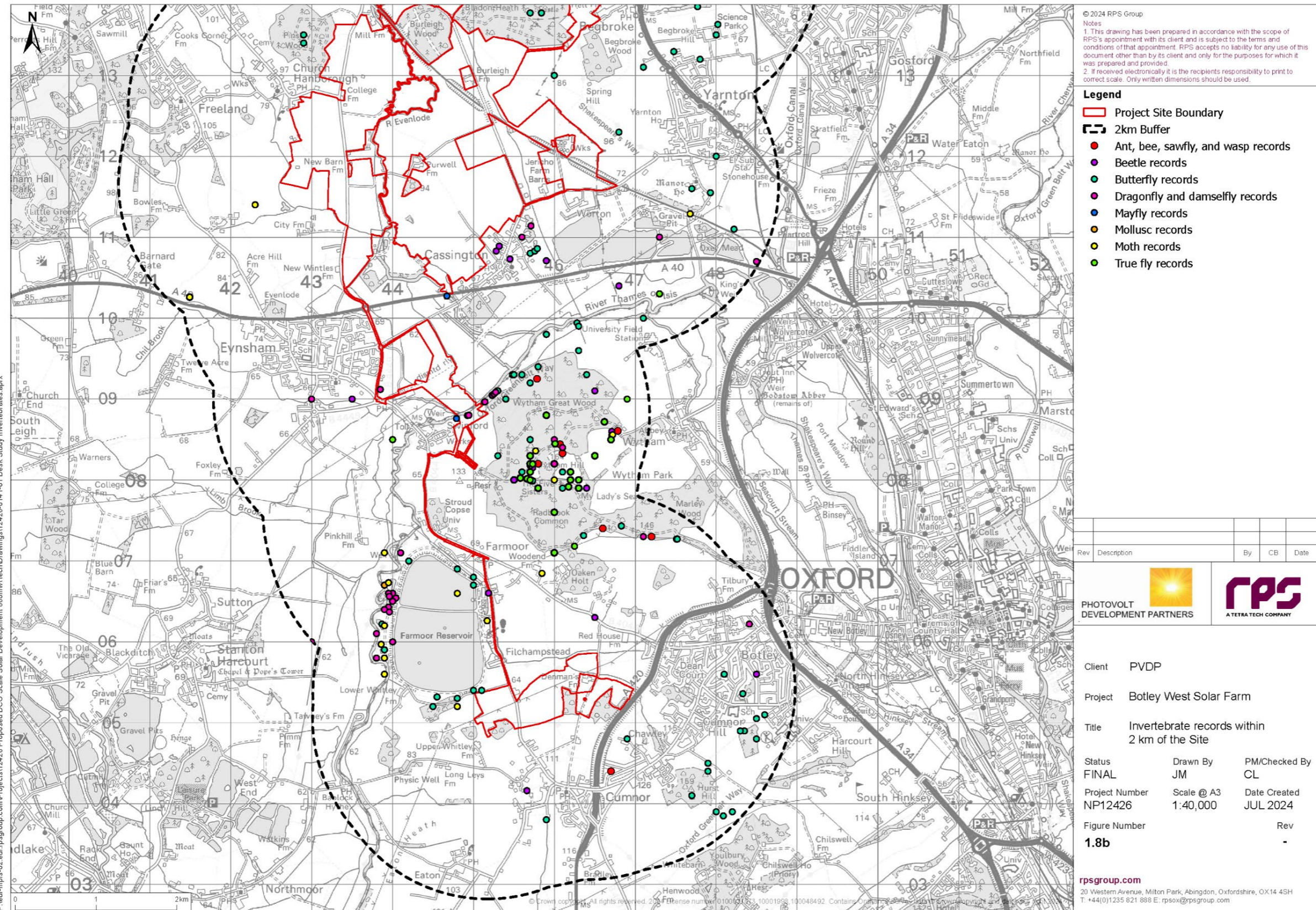
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FINAL	JM	CL	
Project Number	Scale @ A3	Date Created	
NP12426	1:40,000	JUL 2024	
Figure Number	Rev		
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Anx Figure 12 Invertebrate records within 2 km of the Project site (2 of 2).



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- Legend**
- Project Site Boundary
  - 2km Buffer
  - Ant, bee, sawfly, and wasp records
  - Beetle records
  - Butterfly records
  - Dragonfly and damselfly records
  - Mayfly records
  - Mollusc records
  - Moth records
  - True fly records

Rev	Description	By	CB	Date

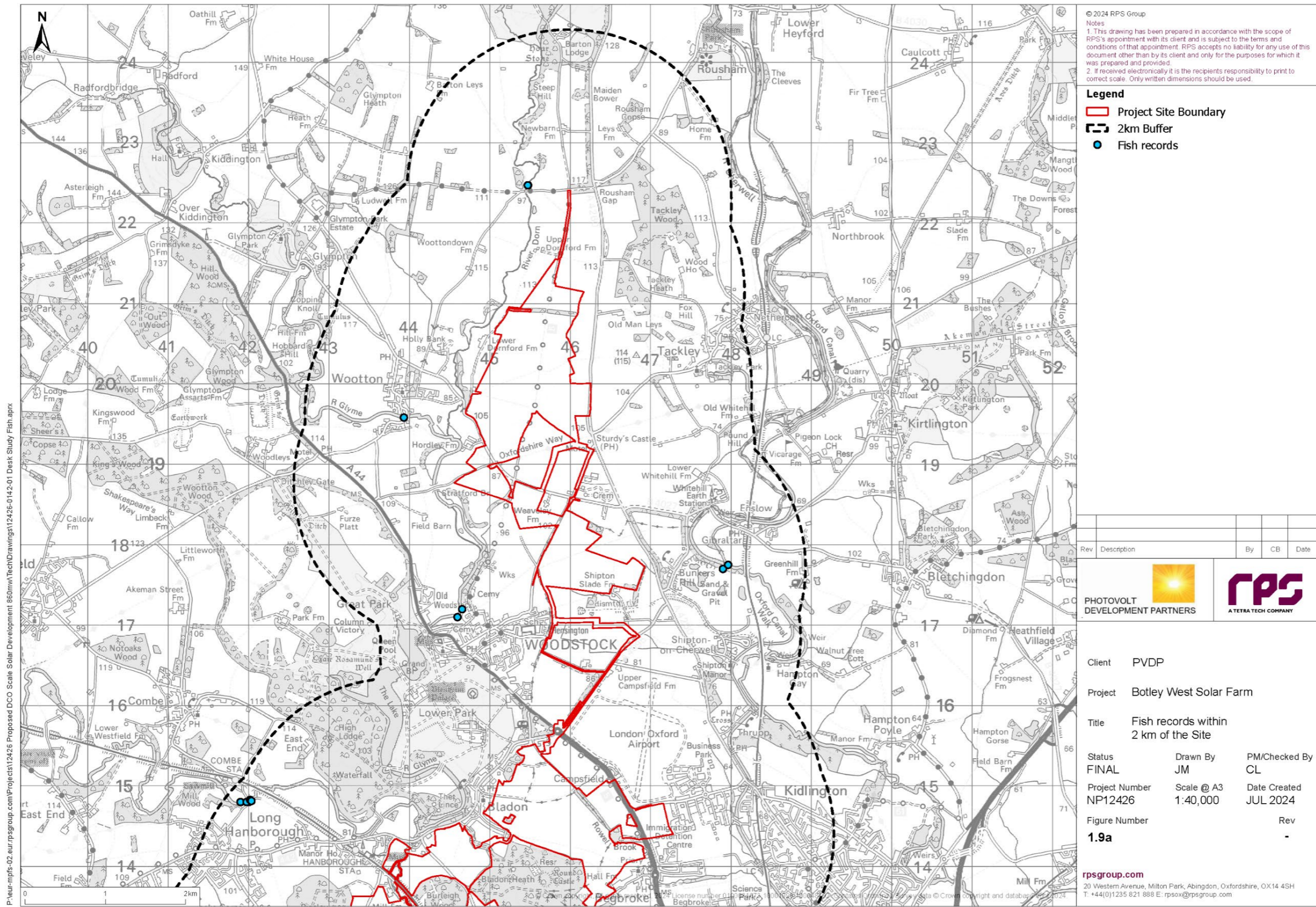
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Project Number NP12426 Scale @ A3 1:40,000 Date Created JUL 2024  
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**Anx Figure 13 Fish records within 2 km of the Project site (1 of 2).**



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**Legend**  
 Project Site Boundary  
 2km Buffer  
● Fish records

Rev	Description	By	CB	Date

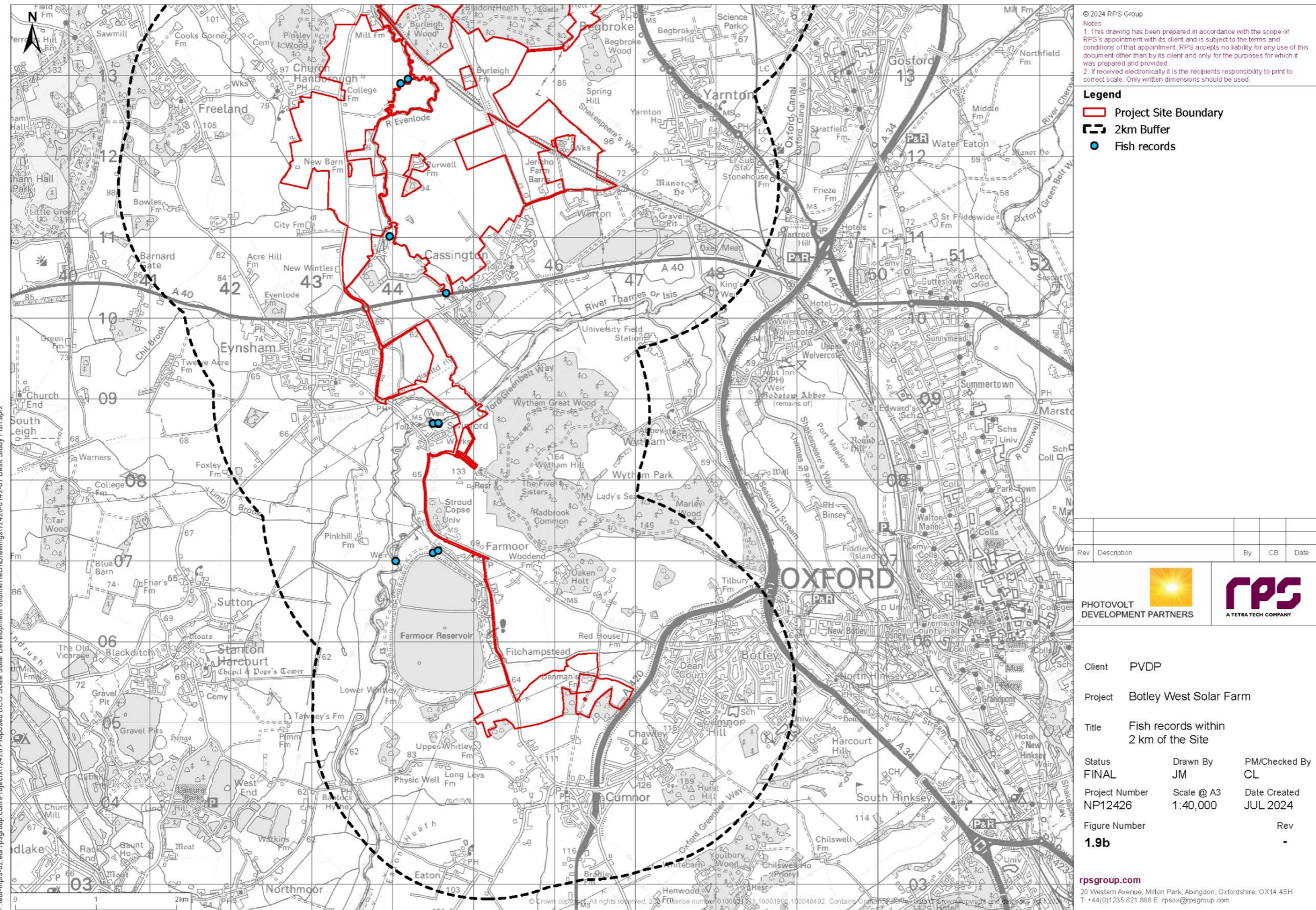
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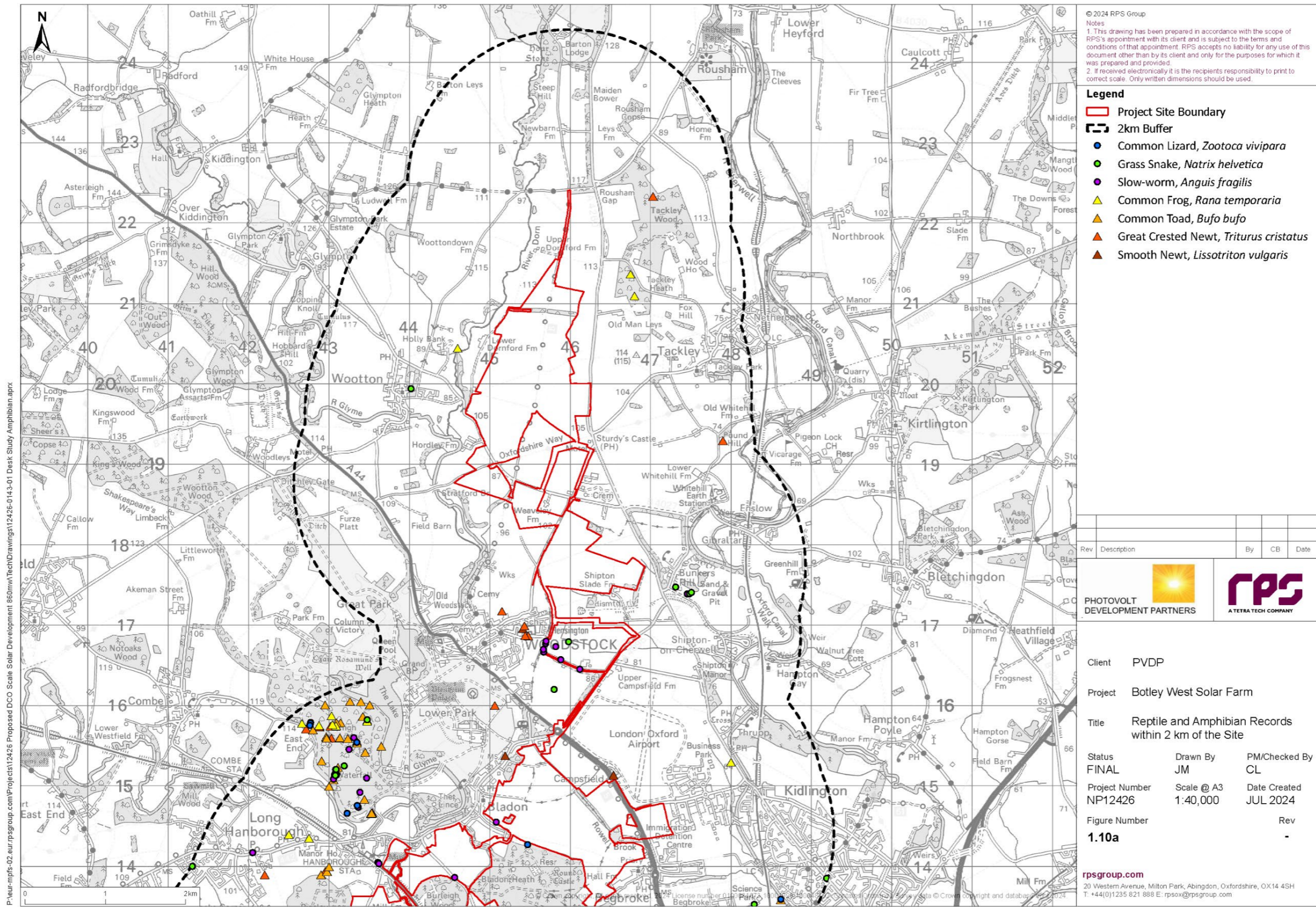
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**Anx Figure 14 Fish records within 2 km of the Project site (2 of 2).**



**Anx Figure 15 Amphibian and Reptile records within 2 km of the Project site (1 of 2).**



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- Legend**
- Project Site Boundary
  - 2km Buffer
  - Common Lizard, *Zootoca vivipara*
  - Grass Snake, *Natrix helvetica*
  - Slow-worm, *Anguis fragilis*
  - ▲ Common Frog, *Rana temporaria*
  - ▲ Common Toad, *Bufo bufo*
  - ▲ Great Crested Newt, *Triturus cristatus*
  - ▲ Smooth Newt, *Lissotriton vulgaris*

Rev	Description	By	CB	Date

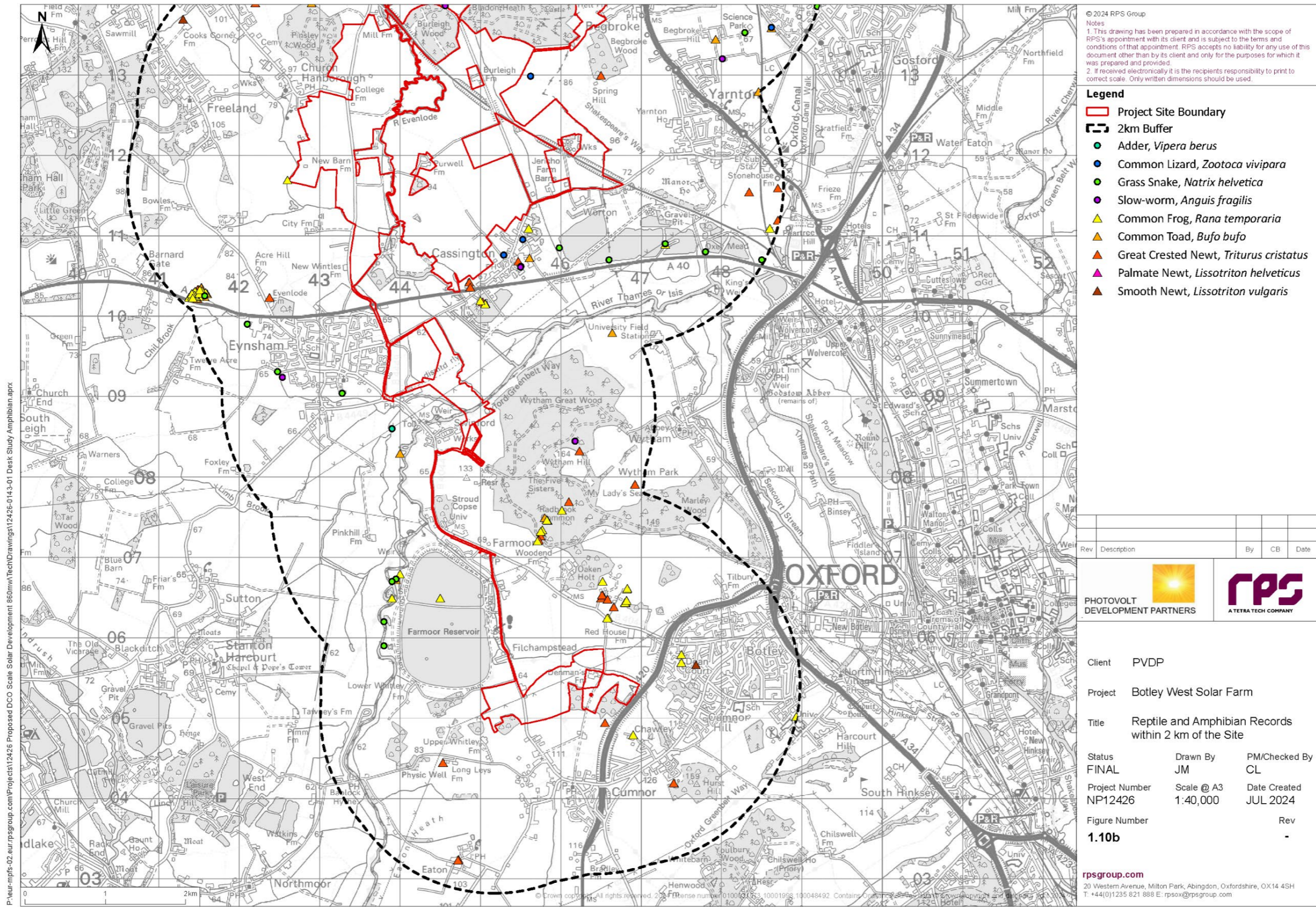
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Figure Number	Rev	
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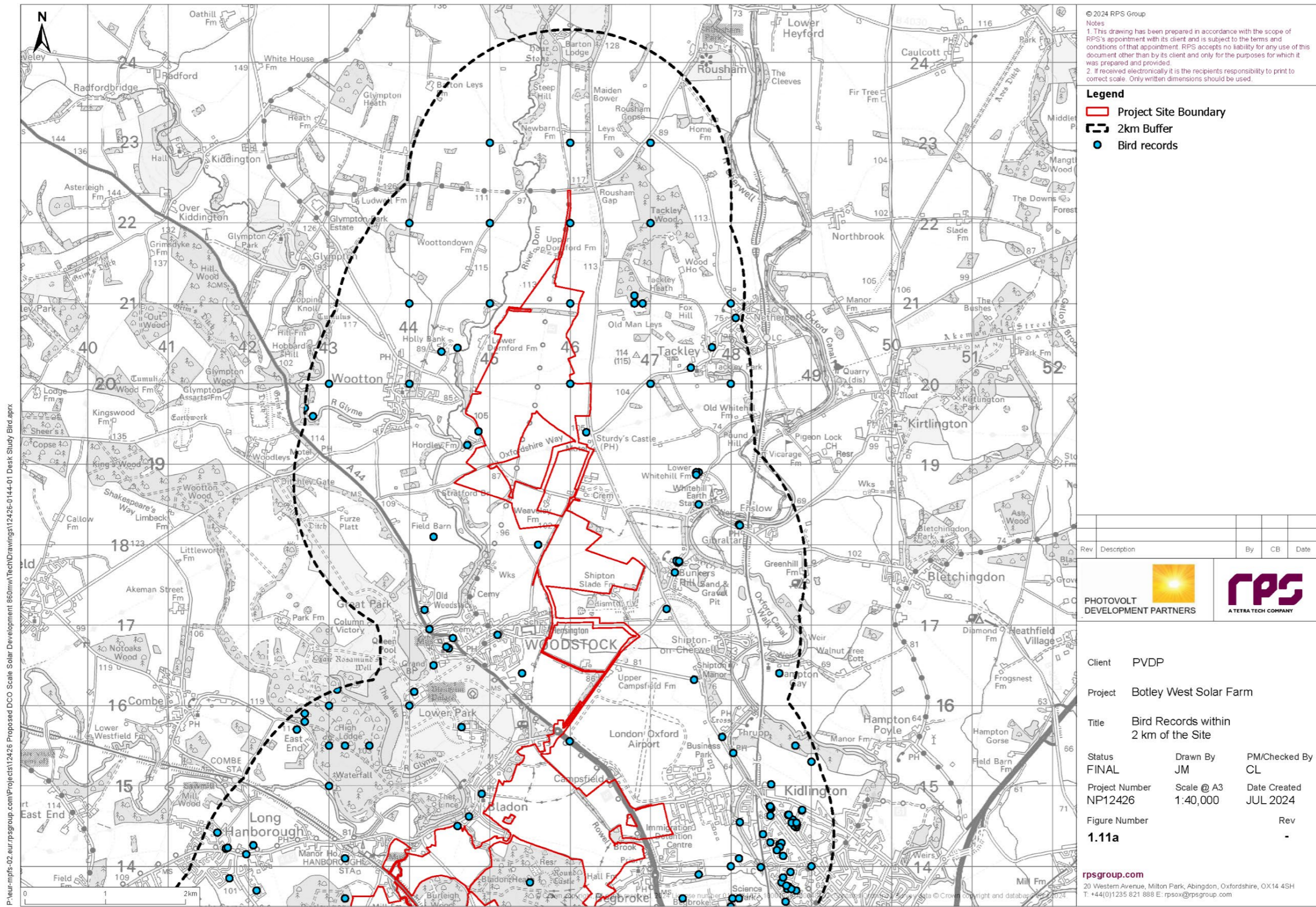
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**Anx Figure 16 Amphibian and Reptile records within 2 km of the Project site (2 of 2).**



Anx Figure 17 Bird records within 2 km of the Project site (1 of 2).



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**Legend**  
 Project Site Boundary  
 2km Buffer  
● Bird records

Rev	Description	By	CB	Date

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Client PVDP  
 Project Botley West Solar Farm  
 Title Bird Records within 2 km of the Site  
 Status FINAL  
 Project Number NP12426  
 Figure Number 1.11a

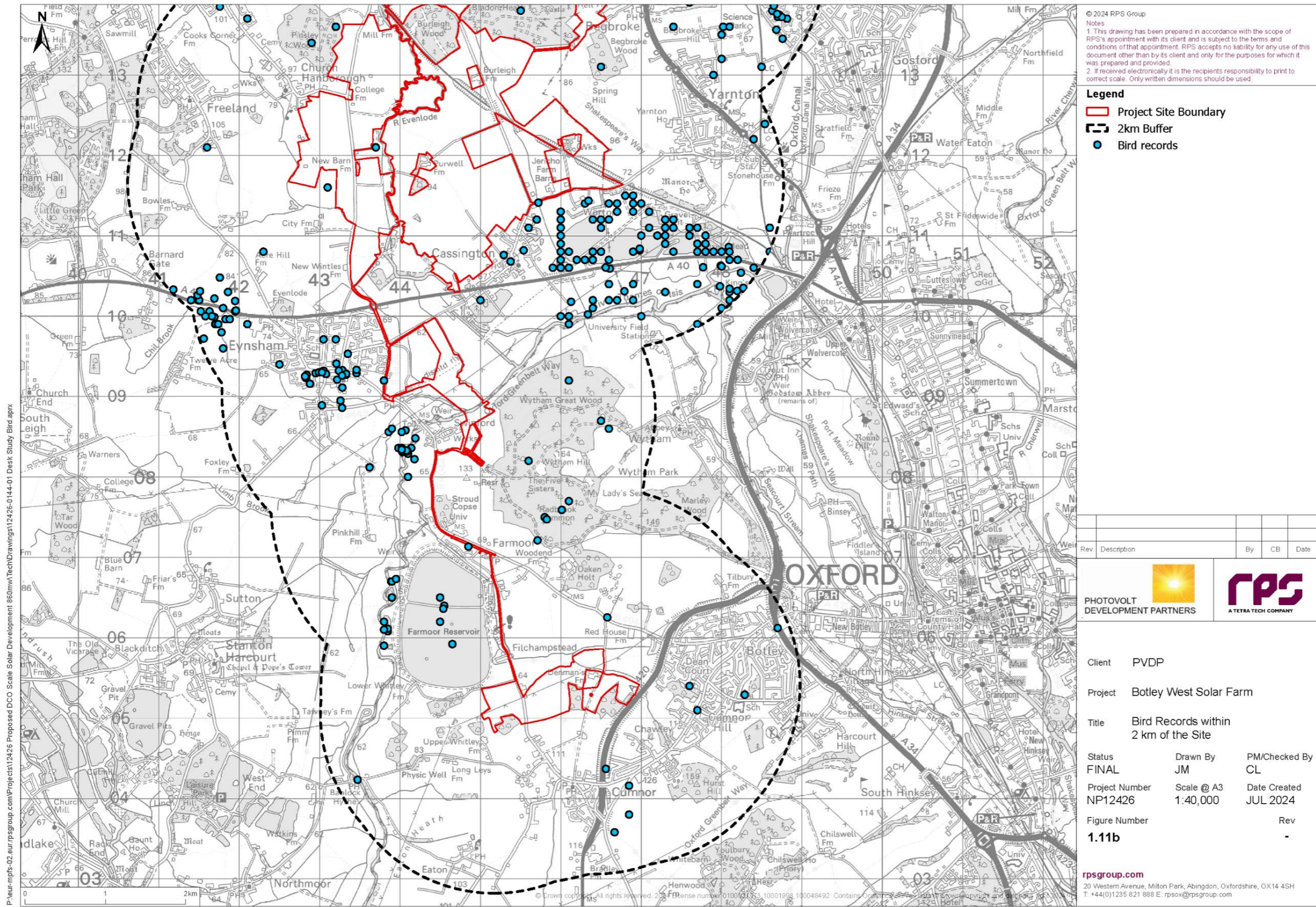
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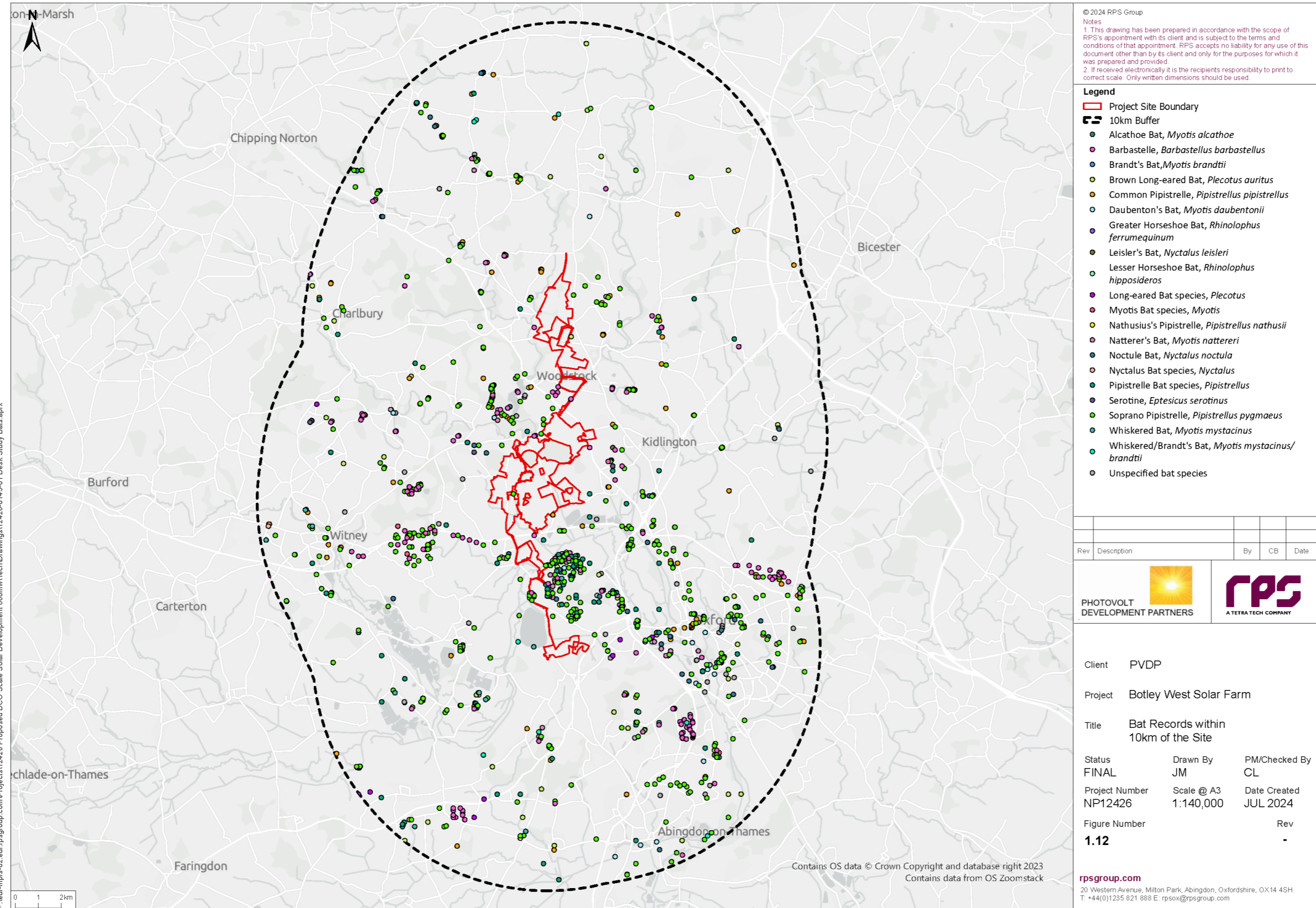
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Anx Figure 18 Bird records within 2 km of the Project site (2 of 2).

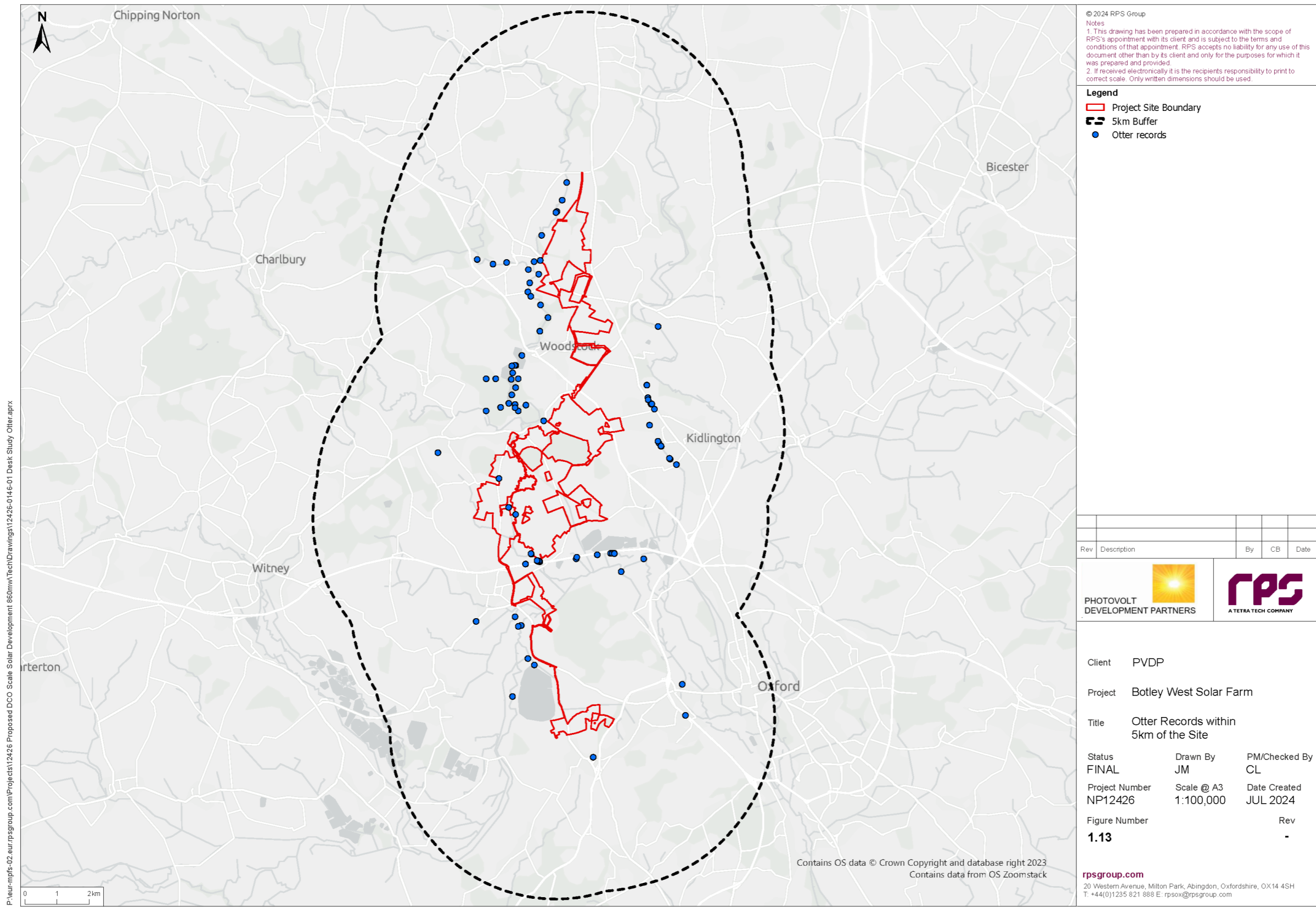


Anx Figure 19 Bat records within 10 km of the Project site.





**Anx Figure 20 Otter records within 5 km of the Project site.**



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**Legend**  
 Project Site Boundary  
 5km Buffer  
● Otter records

Rev	Description	By	CB	Date

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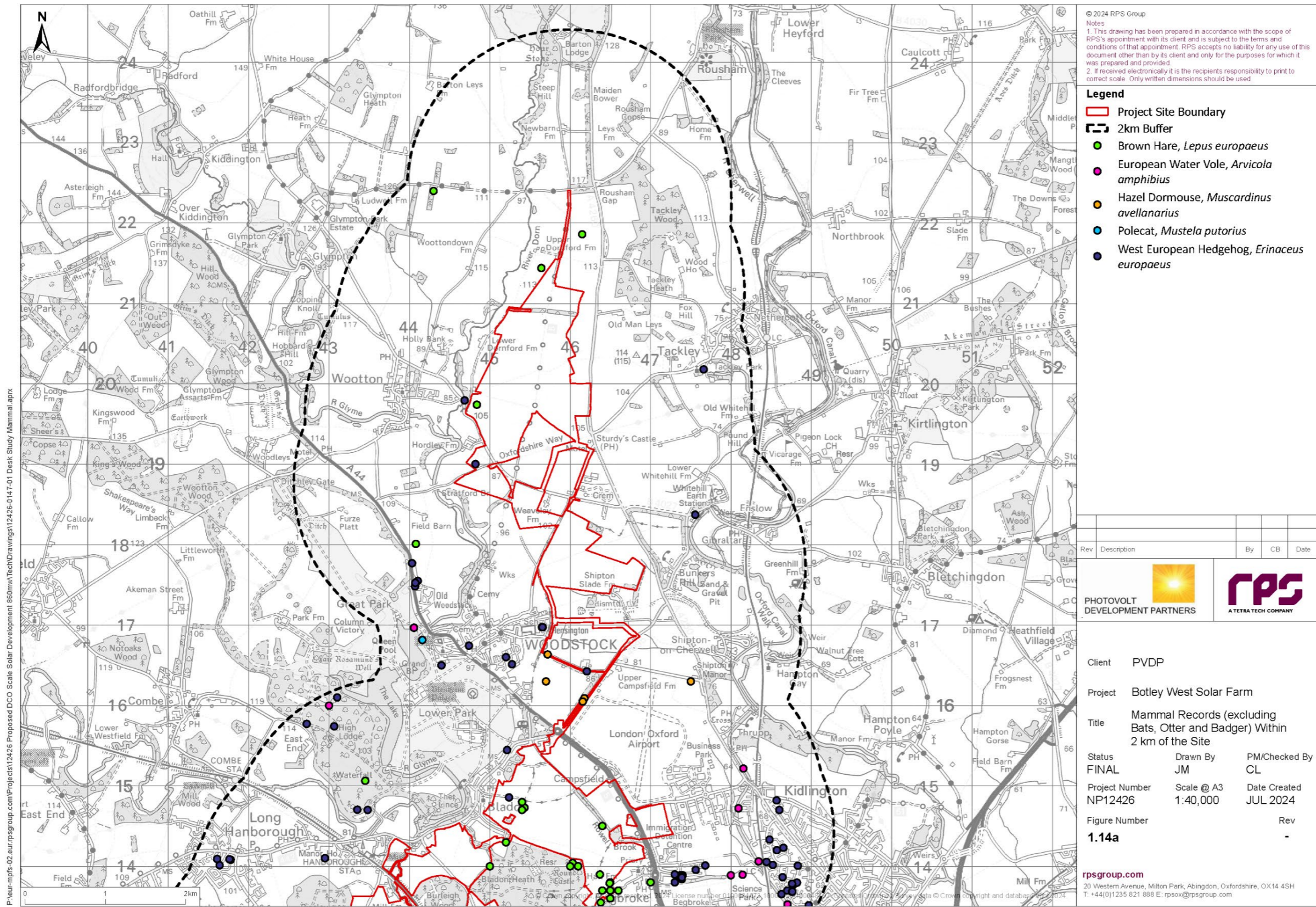
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 Project Number NP12426 Scale @ A3 1:100,000 Date Created JUL 2024  
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**Anx Figure 21 Mammal records (excluding bats, otter and badger) within 2 km of the Project site (1 of 2).**



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- Legend**
- Project Site Boundary
  - 2km Buffer
  - Brown Hare, *Lepus europaeus*
  - European Water Vole, *Arvicola amphibius*
  - Hazel Dormouse, *Muscardinus avellanarius*
  - Polecat, *Mustela putorius*
  - West European Hedgehog, *Erinaceus europaeus*

Rev	Description	By	CB	Date

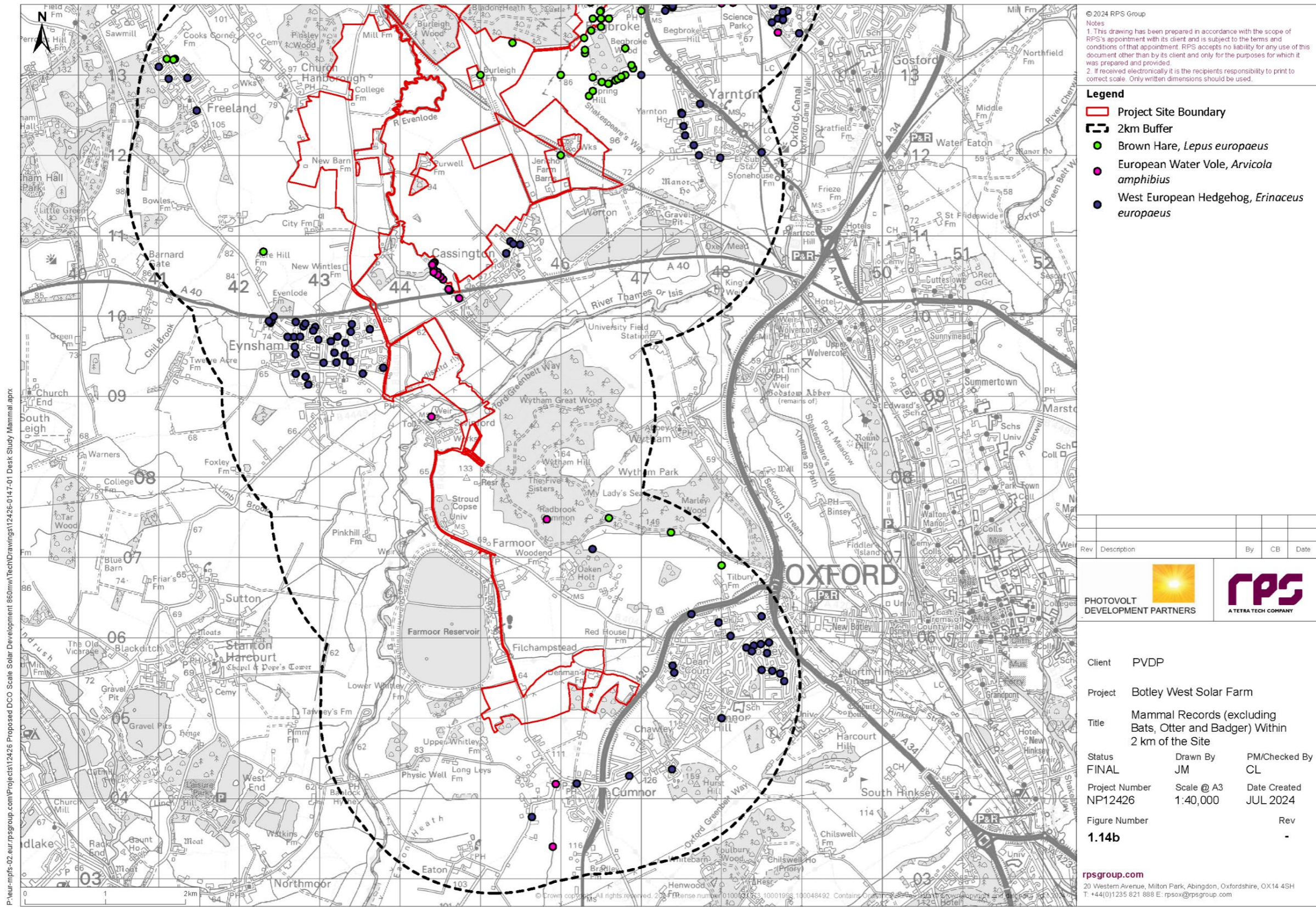
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Project Number	Scale @ A3	Date Created	
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Figure Number	Rev		
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Anx Figure 22 Mammal records (excluding bats, otter and badger) within 2 km of the Project site (1 of 2).



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- Legend**
- Project Site Boundary
  - 2km Buffer
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  - European Water Vole, *Arvicola amphibius*
  - West European Hedgehog, *Erinaceus europaeus*

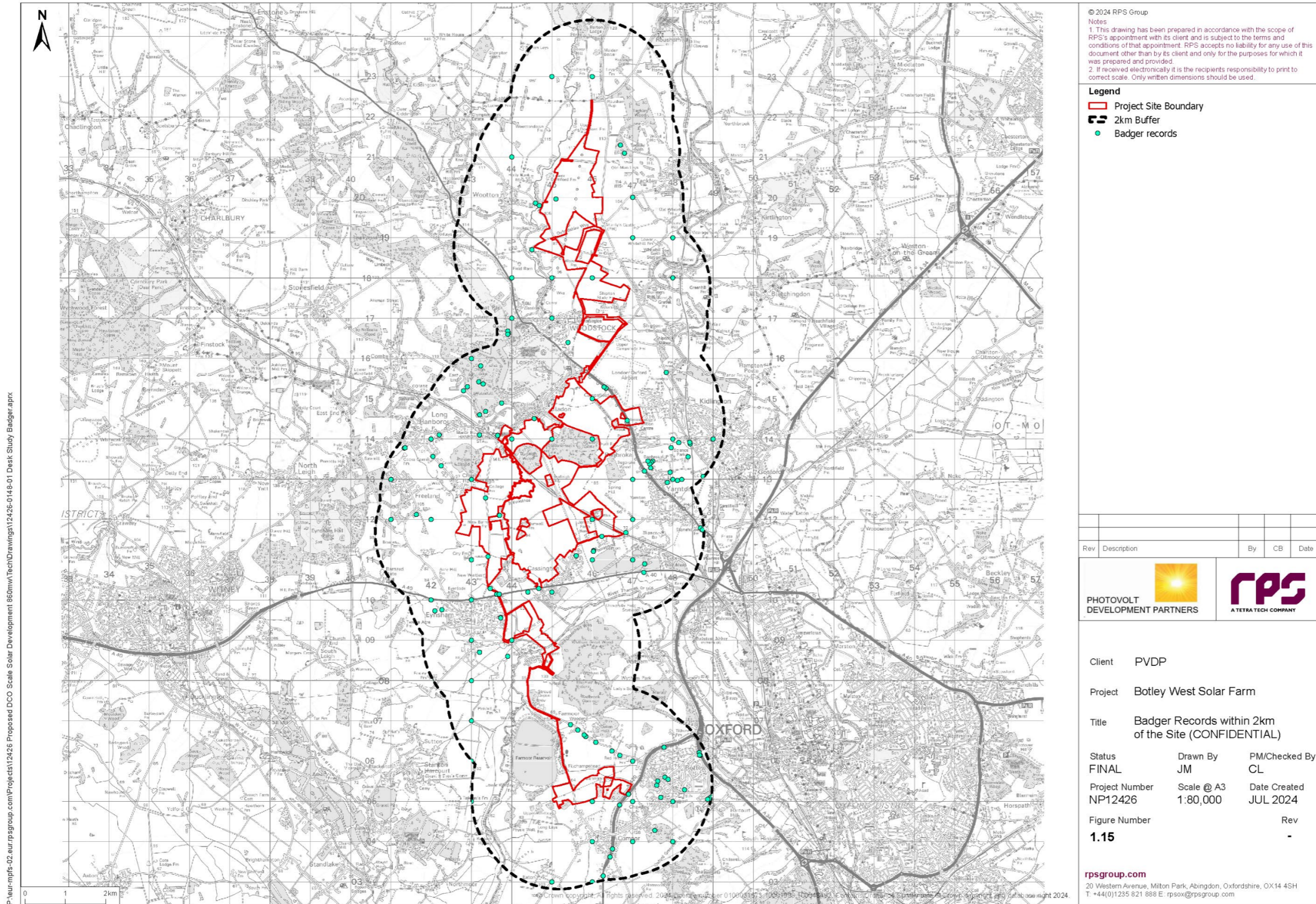
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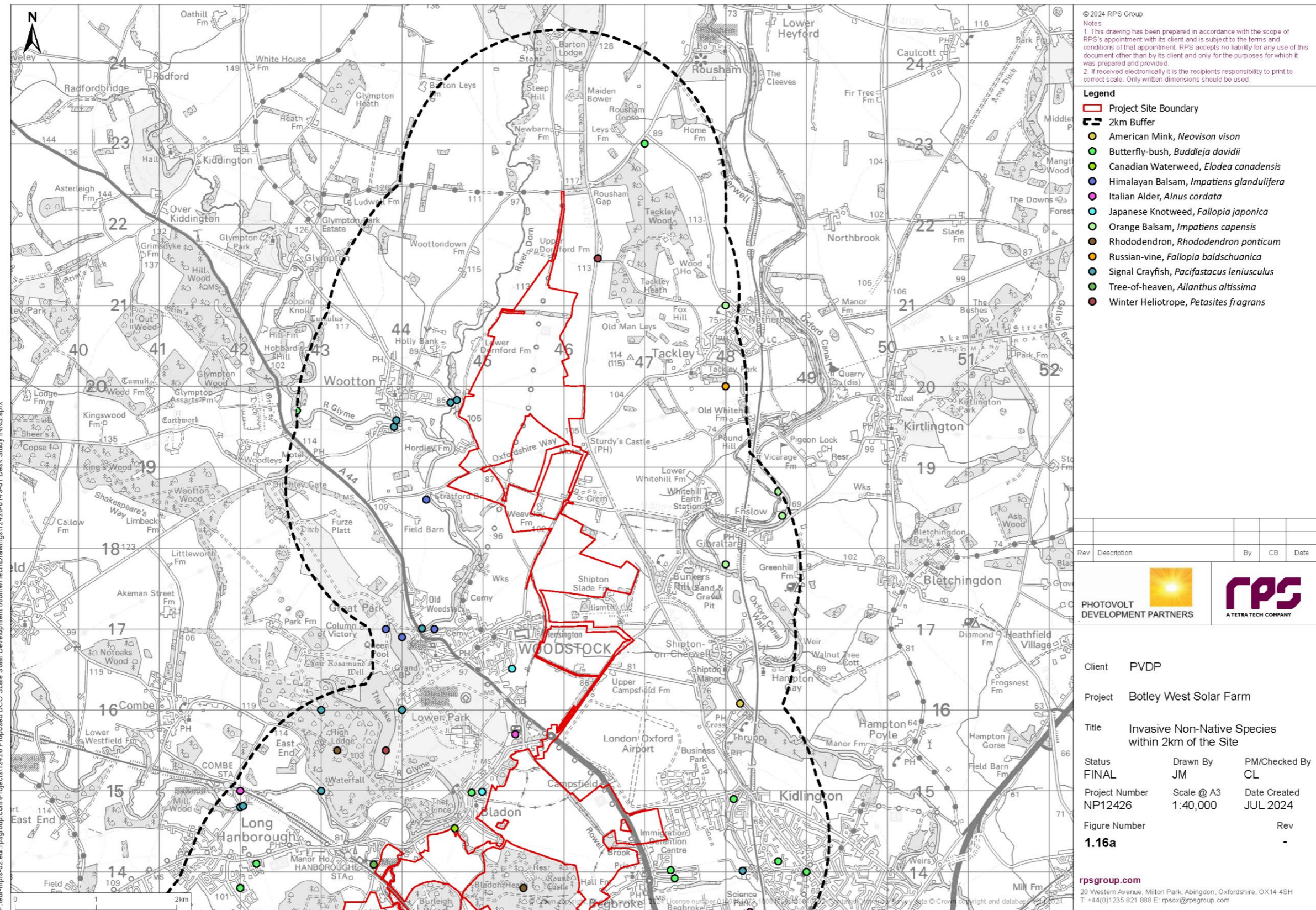
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Figure Number	Rev		
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**Anx Figure 23 Badger records within 2km of the Project site (CONFIDENTIAL).**



Anx Figure 24 Invasive non-native species records within 2km of the Project site (1 of 2).



Anx Figure 25 Invasive non-native species records within 2km of the Project site (2 of 2).

