

# **Environmental Statement**

Volume 7, Annex 3.1: Onshore ecology desk study technical report

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# **Acronyms**

Acronym	Description
BAP	Biodiversity Action Plan
Bern2	Bern Convention on the Conservation of European Wildlife and Natural Habitats, Appendix 2 - Strictly protected fauna species
Bern3	Bern Convention on the Conservation of European Wildlife and Natural Habitats, Appendix 3 - Protected fauna species
Bonn2	Bonn Convention on the Conservation of Migratory Species of Wild Animals, Appendix 2 - Migratory Species to be the subject of agreements
CHS2	The Conservation of Habitats and Species Regulations 2010, Schedule 2 - European Protected Species of Animals
CHS4	The Conservation of Habitats and Species Regulations 2010, Schedule 4 - Animals which may not be captured or killed in certain ways
CITES-A	Convention on International Trade in Endangered Species, Annex A - Species threatened with extinction
CITES-B	Convention on International Trade in Endangered Species, Annex B - Species that may become extinct unless trade is closely controlled
GBNNSIP	Great Britain Non-native Species Inventory Portal Checklist of Non-native Species
HDir2	Habitats Directive, Annex II - Species requiring designation of Special Areas of Conservation
HDir4	Habitats Directive, Annex IV - Species in need of strict protection
HDir5	Habitats Directive, Annex V - Species where population management is decided by individual countries
ID	Identification
INNS	Invasive Non-native Species
IUCN	International Union for Conservation of Nature
JNCC	Joint Nature Conservation Committee
LBAP	Local Biodiversity Action Plan
LBAP-A	Local Biodiversity Action Plan Anglesey
LBAP-C	Local Biodiversity Action Plan Conwy
LBAP-D	Local Biodiversity Action Plan Denbighshire
LBAP-E	National Park Authority Local Biodiversity Action Plan Eryri
LBAP-F	Local Biodiversity Action Plan Flintshire
LBAP-G	Local Biodiversity Action Plan Gwynedd



Acronym	Description
LBAP-T	Biodiversity Action Plan North and Mid Wales Trunk Road
LBAP-W	Local Biodiversity Action Wrexham Plan
LC	Least Concern
LI-	Locally Important Species in Vice Counties
LI-48[EX]	Locally Important Species in Vice-County 48 Merionethshire
LI-48[LR]	Locally Important Species in Vice-County 48 Merionethshire
LI-48[LS]	Locally Important Species in Vice-County 48 Merionethshire
LI-49[LR]	Locally Important Species in Vice-County 49 Caernarvonshire
LI-49[LS]	Locally Important Species in Vice-County 49 Caernarvonshire
LI-50[LR]	Locally Important Species in Vice-County 50 Denbighshire
LI-50[LS]	Locally Important Species in Vice-County 50 Denbighshire
LI-51[EX]	Locally Important Species in Vice-County 51 Flintshire
LI-51[LR]	Locally Important Species in Vice-County 51 Flintshire
LI-51[LS]	Locally Important Species in Vice-County 51 Flintshire
LI-52[EX]	Locally Important Species in Vice-County 52 Anglesey
LI-52[LR]	Locally Important Species in Vice-County 52 Anglesey
LI-52[LS]	Locally Important Species in Vice-County 52 Anglesey
LI-BR	Bryophyte Rarity List for Vice-Counties
LI-BR-48[EX]	Bryophyte Rarity List for Vice-County 48 Merionethshire (Locally extinct)
LI-BR-48[LR]	Bryophyte Rarity List for Vice-County 48 Merionethshire (Locally rare)
LI-BR-49[LR]	Bryophyte Rarity List for Vice-County 49 Caernarvonshire
LI-VP-	Rare Plant Register for Vice Counties
LI-VP-48[LE]	Rare Plant Register for Vice-County 48 Merionethshire (Locally Extinct)
LI-VP-48[LNS]	Rare Plant Register for Vice-County 48 Merionethshire (Locally Not Scarce)
LI-VP-48[LR]	Rare Plant Register for Vice-County 48 Merionethshire (Locally Rare)
LI-VP-48[LS]	Rare Plant Register for Vice-County 48 Merionethshire (Locally Scarce)
LI-VP-49[LE]	Rare Plant Register for Vice-County 49 Caernarvonshire (Locally Extinct)



Acronym	Description	
LI-VP-49[LR]	Rare Plant Register for Vice-County 49 Caernarvonshire (Locally Rare)	
LI-VP-49[LS]	Rare Plant Register for Vice-County 49 Caernarvonshire (Locally Scarce)	
LI-VP-49[NLS]	Rare Plant Register for Vice-County 49 Caernarvonshire (Not Locally Scarce)	
LI-VP-50[LNS]	Rare Plant Register for Vice-County 50 Denbighshire (Locally near scarce)	
LI-VP-50[LR]	Rare Plant Register for Vice-County 50 Denbighshire (Locally rare)	
LI-VP-50[LS]	Rare Plant Register for Vice-County 50 Denbighshire (Locally scarce)	
LI-VP-51[LR]	Rare Plant Register for Vice-County 51 Flintshire (Locally rare)	
LI-VP-51[LS]	Rare Plant Register for Vice-County 51 Flintshire (Locally scarce)	
LI-VP-52[EX]	Rare Plant Register for Vice-County 52 Anglesey (Extinct)	
LI-VP-52[LR]	Rare Plant Register for Vice-County 52 Anglesey (Locally Rare)	
LI-VP-52[LS]	Rare Plant Register for Vice-County 52 Anglesey (Locally Scarce)	
LI-VP-52[PX]	Rare Plant Register for Vice-County 52 Anglesey (Possibly or Probably Extinct)	
LNR	Local Nature Reserve	
LWS	Local Wildlife Sites	
MAGIC	Multi Agency Geographic Information for the Countryside	
MLWS	Mean Low Water Springs	
NNR	National Nature Reserve	
NT	Near Threatened	
PBA	Protection of Badgers Act 1992	
R	Rare	
RDB-NB	Red Data Book listing (not based on IUCN guidelines) - Notable B	
RDB-NR	Red Data Book listing (not based on IUCN guidelines) - Nationally Rare	
RDB-NS	Red Data Book listing (not based on IUCN guidelines) - Nationally Scarce	
RL-DD	IUCN Red List of Threatened Species - Data Deficient	
RL-EN	IUCN Red List of Threatened Species - Endangered	
RL-NT	IUCN Red List of Threatened Species - Near Threatene	
RL-VU	IUCN Red List of Threatened Species - Vulnerable	



Acronym	Description
S7	Environment (Wales) Act 2016 (Section 7)
SAC	Special Area of Conservation
SPA	Special Protection Area
SSSI	Site of Special Scientific Interest
VU	Vulnerable
WCA	Wildlife and Countryside Act 1981
WCA5	Wildlife & Countryside Act 1981 Schedule 5 - Animals which are protected
WCA8	Wildlife & Countryside Act 1981 Schedule 8 - Plants which are protected
WCA9	Wildlife & Countryside Act 1981 Schedule 9 - Animals and plants which may not be released/planted or allowed to escape/grow in the wild
WRL-LI[NT]	Lichen Red Data List for Wales (Near Threatened)
WRL-TM[EN]	IUCN compliant Red List for Britain's Terrestrial Mammals (Endangered)
WRL-TM[NT]	IUCN compliant Red List for Britain's Terrestrial Mammals (Near Threatened)
WRL-TM[VU]	IUCN compliant Red List for Britain's Terrestrial Mammals (Vulnerable)
WRL-VP[DD]	Vascular Plant Red Data List for Wales (Data Deficient)
WRL-VP[NT]	Vascular Plant Red Data List for Wales (Near Threatened)
WRL-VP[VU]	Vascular Plant Red Data List for Wales (Vulnerable)

# Units

Unit	Description
km	Kilometre



# 1 ONSHORE ECOLOGY DESK STUDY TECHNICAL REPORT

### 1.1 Introduction

- 1.1.1.1 This document forms Volume 7, Annex 3.1 Onshore ecology desk study technical report of the Environmental Statement for the Mona Offshore Wind Project.
- 1.1.1.2 The purpose of this technical report is to present the methodology and results of the onshore ecology desk study undertaken in 2023 for the Mona Offshore Wind Project. The results of the desk study have been used to inform Volume 3, Chapter 3: Onshore ecology of the Environmental Statement.
- 1.1.1.3 Two separate areas have been defined for the purposes of this technical report. These include the 'study area', which describes the geographical extent subject to desk based research, and the 'survey area', which describes the area of land subject to Sitespecific surveys. The extent of the study area was selected to ensure data was collected for the Mona Onshore Development Area and the surroundings that may support relevant habitats and species and may reasonably be affected by the Mona Offshore Wind Project. The extent of the study area and the survey area were discussed and agreed with the onshore ecology Expert Working Group.
- 1.1.1.4 For the purposes of this technical report and the ease of geographic reference, the Mona Onshore Development Area has been separated into nine distinct sections, as shown in Figure 1.1 below.

## 1.2 Study area

- 1.2.1.1 The onshore ecology desk study area, which describes the geographical extent subject to desk based research, comprises the Mona Onshore Development Area, landward of Mean Low Water Springs (MLWS) and a series of buffers, each specific to a group of ecological features ('the onshore ecology desk study area'). The buffers used to inform the onshore ecology desk study are:
  - A 20 km buffer around the Mona Onshore Development Area for internationally designated sites, including Special Areas of Conservation (SAC), Special Protection Areas (SPA) and Ramsar sites
  - A 5 km buffer around the Mona Onshore Development Area, for nationally designated sites, including Sites of Special Scientific Interest (SSSIs) and National Nature Reserves (NNRs)
  - A 2 km buffer around the Mona Onshore Development Area for locally designated sites, including Local Nature Reserves (LNRs) and Local Wildlife Sites (LWSs)
  - A 2 km buffer around the Mona Onshore Development Area for records of protected or notable species (except for notable plant and invertebrate species)
  - A 1 km buffer around the Mona Onshore Development Area for records of protected or notable plant and invertebrate species.
- 1.2.1.2 The location and geographic extent of the onshore ecology desk study area, including the buffer distances identified above is presented in Figure 1.2 below.



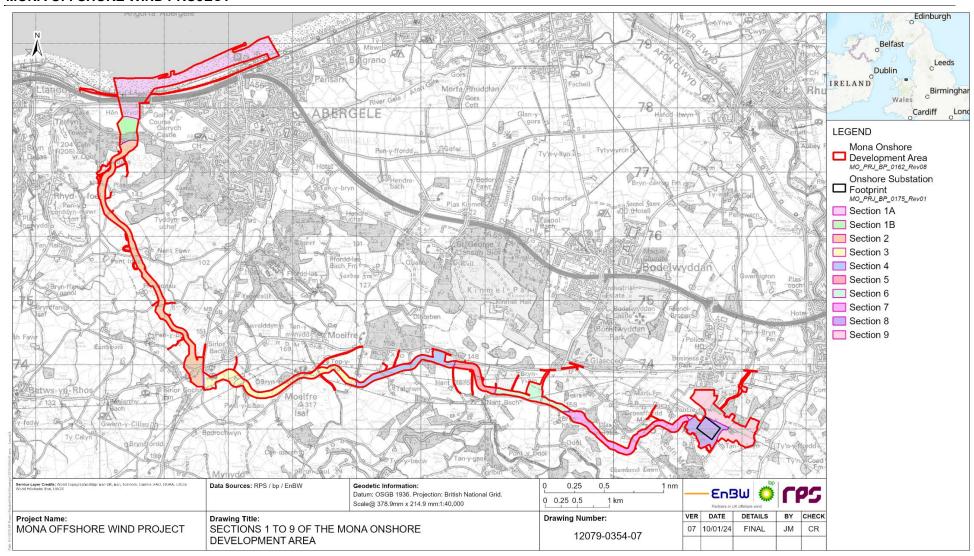


Figure 1.1: Sections 1 to 9 of the Mona Onshore Development Area



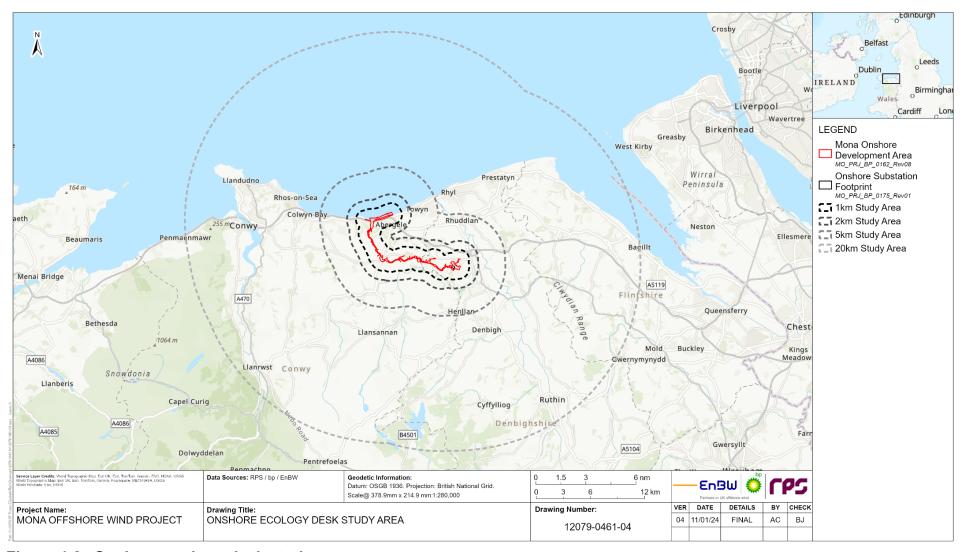


Figure 1.2: Onshore ecology desk study area.



## 1.3 Methodology

### 1.3.1 Desk study

- 1.3.1.1 Historical data from the onshore ecology desk study area was requested in August 2023 from the North Wales Environmental Information Service (Cofnod) (Cofnod, 2023) for statutory and non-statutory designated sites, ancient woodlands, traditional orchards, and protected and notable species.
- 1.3.1.2 The desk study was undertaken in accordance with the relevant guidance provided by Chartered Institute of Ecology and Environmental Management (CIEEM, 2017).
- 1.3.1.3 Standard industry practice accepts that ecological data becomes less reliable after ten years. However, given the wide extent of the onshore ecology desk study area and the rural nature of the project, the precautionary approach was adopted, and the Mona Offshore Wind Project has considered data from 2010 to 2023 (i.e. 13 years' worth of data).
- 1.3.1.4 Supplementary information on statutory and non-statutory designated sites within the onshore ecology desk study area was obtained from the Multi Agency Geographic Information for the Countryside (MAGIC) interactive mapping system (Defra, 2023) and DataMap Wales (NRW, 2023).
- 1.3.1.5 The citations and additional information on the designated features of the SPAs and SACs in the onshore ecology desk study area were obtained from the Joint Nature Conservation Committee (JNCC) website. The citations for the SSSIs were obtained from Cofnod.
- 1.3.1.6 The desktop sources used to inform this technical report are summarised at Table 1.1 below.

Table 1.1: Summary of key desktop sources.

Title	Source	Year	Author
Historical biological records	Cofnod	2023	Cofnod
DataMap Wales	Welsh Government	2023	Welsh Government
UK Bat Mitigation Guidelines: a guide to impact assessment, mitigation and compensation for developments affecting bats	CIEEM	2023	Reason and Wray
Distribution of the Dormouse <i>Muscardinus</i> avellanarius in"Wales	Peoples Trust for Endangered Species	2023	PTES
Plant distribution maps	Botanical Society of Britain and Ireland (BSBI)	2023	BSBI
Red List	International Union for the Conservation of Nature	2023	IUCN
Great Crested Newt Survey Report	Burbo Bank Extension Offshore Windfarm – Onshore Infrastructure	2022 - 2023	RPS



Title	Source	Year	Author
Great Crested Newt Survey Report	Awel Y Môr Offshore Wind Farm Environmental Statement Annexe	2022	RWE Renewables
St Asaph Business Park Monitoring GCN Report	St. Asaph Business Park Monitoring	2023	Biodiversity Advanced
St. Asaph Solar Farm Great Crested Newt Surveys	St. Asaph Solar Farm	2022	SLR
Invertebrate database	Pantheon	2023	Pantheon
UK Protected Area Joint Nature Conservation Committee (JNCC)	JNCC website	2023	JNCC

### 1.3.2 Limitations

- 1.3.2.1 The desk top sources used to inform this technical report comprise third party controlled data, purchased for the purposes of onshore ecology desk study only. The Applicant cannot be held liable for any inaccuracies in this data.
- 1.3.2.2 Desk study data shows where species have been recorded. The absence of records, however, may be due to the absence of surveys in that area or a lack of reporting of results and incidental sighting. The absence of data does not therefore 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 Extended phase 1 Habitat Surveys (see Volume 7, Annex 3.2: Extended phase 1 Habitat Survey technical report of the Environmental Statement) and habitat and species specific surveys.

### 1.4 Results

# 1.4.1 Statutory designated sites

### Internationally designated sites

- 1.4.1.1 There were 11 internationally designated sites within 20 km of the Mona Onshore Development Area. The name of each site, its designation, the distance from the Mona Onshore Development Area and a description is presented in Table 1.2 below. Their location in relation the Mona Onshore Development Area and their geographic extent are illustrated in Figure 1.3.
- 1.4.1.2 Of the 11 internationally designated sites identified, Bae Lerpwl/ Liverpool Bay coincides with the Mona Onshore Development Area. The ten other internationally designated sites are located outside the Mona Onshore Development Area.



Table 1.2: Internationally designated sites within 20 km of the Mona Onshore Development Area.

Site name	Designation	Distance from the Mona Onshore Development Area (km)	Description
Bae Lerpwl / Liverpool Bay	SPA	0.00	Liverpool Bay / Bae Lerpwl SPA, East of the Irish Sea, borders the coastlines of north-west England and north Wales. Running as a broad arc from Morecambe Bay to the east coast of Anglesey. It is designated for the protection of red-throated diver <i>Gavia stellata</i> , common scoter <i>Melanitta nigra</i> , and little gull <i>Hydrocoloeus minutus</i> in the non-breeding season; common tern <i>Sterna hirundo</i> and little tern <i>Sterna albifrons</i> in the breeding season, and an internationally important waterbird assemblage.
Coedwigoedd Dyffryn Elwy / Elwy Valley Woods	SAC	0.81	Elwy Valley Woods is one of three sites selected to represent Tilio-Acerion Forest across its geographic range on the Carboniferous limestone of north Wales, and is an example of the habitat with an outstanding lower-plant flora. The canopy is quite varied: ash <i>Fraxinus excelsior</i> is the most common tree, but there is also occasional small-leaved lime <i>Tilia cordata</i> and wild service-tree <i>Sorbus torminalis</i> . There is a rich calcicolous understorey and ground flora, and rare bryophytes include <i>Bryum canariense</i> , <i>Cololejeunea rossettiana</i> , <i>Plagiochila 6ritannica</i> , <i>Platydictya confervoides</i> and <i>Isothecium striatulum</i> . The woods have developed along steep valley-sides and ravines that are also important for their cave systems and Pleistocene fossil mammal assemblages.
Coedwigoedd Penrhyn Creuddyn / Creuddyn Peninsula Woods	SAC	9.48	Creuddyn Peninsula Woods is designated for its Tilio-Acerion forests of slopes, screes and ravines. Creuddyn Peninsula Woods developed on a series of craggy Carboniferous limestone hills and is an example of a large Tilio-Acerion forest at the westerly-most edge of its range, at this latitude in the UK. Semi-natural dry grasslands and srubland facies on calcareous substrates, and English yew <i>Taxus baccata</i> woods are also present and are qualifying features of the SAC, but not the primary reason for its designation.
Llwyn	SAC	9.78	Llwyn is one of the largest examples of alluvial forest in Wales. The woodland has formed on level ground on the floodplain of the River Clywedog, and has a canopy of alder <i>Alnus glutinosa</i> , which transitions to ash dominance on relatively drier ground.
Y Fenai a Bae Conwy / Menai Strait and Conwy Bay	SAC	10.58	Menai Strait and Conwy Bay is designated for the presence of sandbanks, which are always slightly covered by sea water, mudflats and sandflats not covered by seawater at low tide, and reefs. Large shallow inlets and bays and submerged or partially submerged sea caves are also present as qualifying features but not a primary reason for its designation.



Site name	Designation	Distance from the Mona Onshore Development Area (km)	Description
Aber Dyfrdwy / Dee Estuary			The primary reasons for designation of the Dee Estuary as an SAC are the presence of mudflats and sandflats not covered by seawater at low tide, Salicornia and other annuals colonising mud and sand, and Atlantic salt meadows. Other habitats present as a qualifying feature (but not primary reason for designation) include estuaries, annual vegetation of drift lines, vegetated sea cliffs of the Atlantic and Baltic Coasts, embryonic shifting dunes, shifting dunes along the shoreline with European beachgrass <i>Ammophila arenari</i> , fixed coastal dunes with herbaceous vegetation, and humid dune slacks. Species present as a qualifying feature (but not primary reason for designation) include sea lamprey <i>Petromzon marinus</i> , river lamprey <i>Lampetra fluviatilis</i> and petalwort <i>Petalophyllum ralfsii</i> .
			The site also qualifies as an SPA and Ramsar as it is used regularly by 1% or more of the Great Britain populations of bartailed godwit <i>Limosa lapponica</i> , common tern, little tern, and sandwich tern <i>Sterna sandvicensis</i> . The site also qualifies as an SPA it is used regularly by 1% or more of the biogeographical populations of redshank <i>Tringa tetanus</i> , shelduck <i>Tadorna tadorna</i> , teal <i>Anas crecca</i> , pintail <i>Anas acuta</i> , oystercatcher <i>Haematopus ostralegus</i> , grey plover <i>Pluvalis squatarola</i> , knot <i>Calidris canutus islandica</i> , dunlin <i>Calidris alpina</i> , black-tailed godwit <i>Limosa limosa islandica</i> , curlew <i>Numenius arquata</i> , and redshank.
Mynydd Helygain / Halkyn Mountain	SAC	13.54	Halkyn Mountain comprises the most extensive recorded area of the metalliferous National Vegetation Classification (NVC) type OV37 Festuca ovina – Minuartia verna grassland community in Wales and is designated for the presence of Calaminarian grasslands of the Violetalia calaminariae, as well as the presence a large great crested newt Triturus cristatus breeding population. European dry heaths, semi-natural dry grasslands and srubland facies on calcareous substrates, and Molinia meadows on calcareous peaty or clayey-silt-laden soils are also present as qualifying features but are not primary reasons for designation.
Pen y Gogarth / Great Orme's Head	SAC	14.15	Great Orne's Head is designated for its European dry heaths and semi-natural dry grasslands and scrubland facies on calcareous substrates. This site is the finest example of limestone heath in the UK and supports one of the largest stands in the UK of Avenula Grassland NVC type CG1 Festuca ovina – carlina vulgaris grassland. Vegetated sea cliffs are also a qualifying feature, but not a primary reason for its designation.
Coedwigoedd Dyffryn Alun / Alyn Valley Woods	SAC	17.43	Alyn Valley Woods holds one of the largest continuous areas of Tilio-Acerion forest in Wales, and is one of three sites selected to represent the geographic range and variation of the habitat on the Carboniferous limestone of north Wales. Semi-natural dry grasslands and srubland facies on calcareous substrates, and alluvial forests with alder and ash are also present as qualifying features but are not primary reasons for its designation.



Site name	Designation	Distance from the Mona Onshore Development Area (km)	Description
Mwyngloddiau Fforest Gwydir / Gwydyr Forest Mines	SAC	18.82	Mwyngloddiau Fforest Gwydir / Gwydyr Forest Mines SAC is primarily designated for the presence of Calaminarian grasslands of the Violetalia calaminariae. A lesser horseshoe <i>Rhinolophus hipposideros</i> bat colony is also present which is a qualifying feature of the SAC, but not a primary reason for its designation.
Eryri / Snowdonia	SAC	18.75	Eryi / Snowdonia SAC is primarily designated for the following habitats: Oligotrophic to mesotrophic standing waters with vegetation of the Littorelletea uniflorae and/or of the Isoëto-Nanojuncetea, Siliceous alpine and boreal grasslands, Hydrophilous tall herb fringe communities of plains and of the montane to alpine levels, Siliceous scree of the montane to snow levels <i>Androsacetalia alpinae</i> and <i>Galeopsietalia ladani</i> , Calcareous rocky slopes with chasmophytic vegetation, and Siliceous rocky slopes with chasmophytic vegetation. Species included as primary reasons for the designation include slender green feather-moss, <i>Drepanocladus vernicosus</i> and floating water-plantain <i>Luronium natans</i> . Several other habitats are present that are qualifying features but are not primary reasons for its designation.



## **Nationally designated sites**

- 1.4.1.3 There are six nationally designated sites within 5 km of the Mona Onshore Development Area. The name of each site, its designation, the distance from the Mona Onshore Development Area and a description is presented in Table 1.3 below. Their location in relation the Mona Onshore Development Area and their geographic extent are illustrated in Figure 1.4.
- 1.4.1.4 Of the six statutory designated sites identified, Llanddulas Limestone and Gwrych Castle Wood SSSI and Traeth Pensarn SSSI coincide with the Mona Onshore Development Area. The remaining four designated sites are located outside the Mona Onshore Development Area.

Table 1.3: Nationally designated sites within 5 km of the Mona Onshore Development Area.

Site name	Designation	Distance from the Mona Onshore Development Area (km)	Description
Llanddulas Limestone and Gwrych Castle Wood	SSSI	0.00	This site is of special interest for its limestone (calcicolous) grassland, heath and woodland communities, the first two of which comprise some of the largest examples in Wales as well as its populations of vascular plants; bryophytes; butterflies; moths and a winter roost of lesser horseshoe bat.
Traeth Pensarn	SSSI	0.00	This site is of special interest for its vegetated shingle beach plant communities. The site supports both 'pioneer' and 'stable vegetated' shingle, extending approximately 1.7 km along the Pensarn beach, from the promenade westward towards Llanddulas.
Coedydd ac Ogofau Elwy a Meichion	SSSI	0.81	The site is of special interest for its semi-natural broadleaved woodland, its rare flowering plant assemblage, its scarce bryophyte assemblage, and the geological and palaeontological interest of Galltfaenan, Cefn and Pontnewydd Caves. The caves also provide roosting habitat for Natterer's bat <i>Myotis nattereri</i> , brown long-eared bat <i>Plecotus auritus</i> , common pipistrelles ( <i>Pipistrellus pipistrellus</i> ), and lesser horseshoe bats.
Coed y Gopa	SSSI	0.82	The site occupies a prominent carboniferous limestone hill. There is a disused stone quarry in the south-east corner. The many natural caves and underground mine workings provide opportunities for roosting bats including a large hibernaculum of lesser horseshoe bats, and smaller numbers of Natterer's bat and Daubenton's bat <i>Myotis daubentonii</i> .
Mynydd Marian	SSSI	2.48	Mynydd Marian is of special interest for its range of limestone grassland communities and its population of the dwarf race of silver studded blue butterfly <i>Plebejus argus ssp. caernensis</i> .
Coedydd Derw Elwy	SSSI	3.92	Coedydd Derw Elwy is of special interest for its seminatural broadleaved woodland. Most of the site is comprised of sessile oak <i>Quercus petraea</i> , downy birch <i>Betula pubescens</i> , and wood-sorrel <i>Pxalis acetosella</i> .





# **Locally designated sites**

**MONA OFFSHORE WIND PROJECT** 

1.4.1.5 The onshore ecology desk study confirmed that there were no locally designated statutory sites (e.g. LNRs) within 2 km of the Mona Onshore Development Area. The location and geographic extent of LNRs in proximity to the Mona Onshore Development Area are presented in Figure 1.5 of this technical report below.



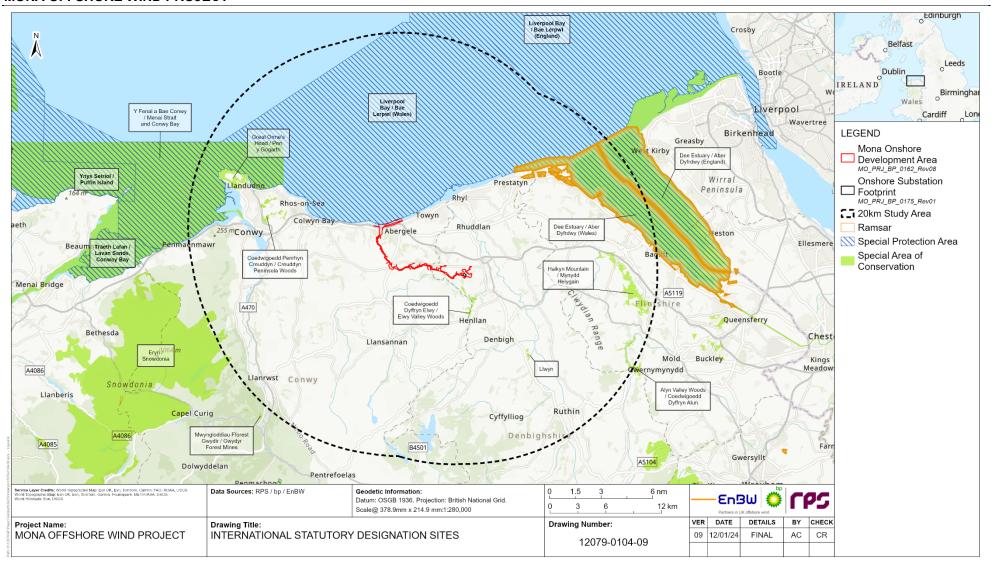


Figure 1.3: Internationally designated sites within 20 km of the Mona Onshore Development Area.

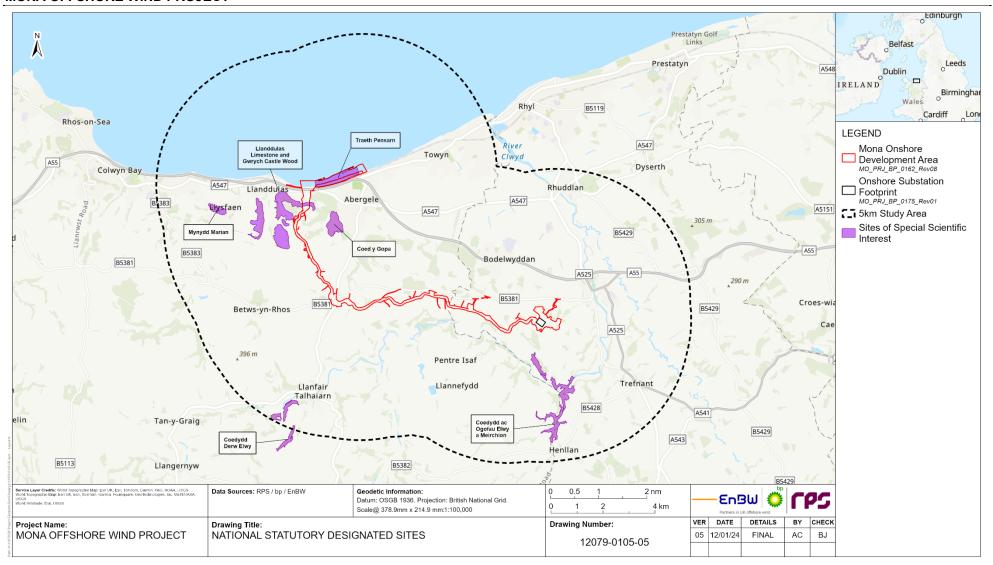


Figure 1.4: Nationally designated sites within 5 km of the Mona Onshore Development Area.



Figure 1.5: Locally designated sites (statutory) within 2 km of the Mona Onshore Development Area.



### 1.4.2 Non-statutory designated sites

### **Locally designated sites**

- 1.4.2.1 There are 77 non-statutory locally designated sites within 2 km of the Mona Onshore Development Area.
- 1.4.2.2 The name of each site, its designation, the distance from the Mona Onshore Development Area and a description is presented in Table 1.4 below. Their location in relation the Mona Onshore Development Area and their geographic extent are illustrated in Figure 1.6.
- 1.4.2.3 Of the 77 LWSs identified, two coincide with the eastern extent of the Mona Onshore Development Area, which are Coed Cord LWS and Coed y Saeson LWS.

Table 1.4: LWSs located within 2 km of the Mona Onshore Development Area.

Site Name	Designation	Distance from the Mona Onshore Development Area (km)
Coed Cord	LWS	0.00
Coed y Saeson	LWS	0.00
Pensarn Reedbed	LWS	0.03
Coed Betws Lodge	LWS	0.06
Tan-yr-ogof Farm	LWS	0.09
Pwll Coed Cae Mach	LWS	0.12
Siror Hir Dingles	LWS	0.12
Pentre Mawr Park Pools & Reedbed	LWS	0.13
Moelfre Isaf Heath	LWS	0.13
Moelfre Isaf heath fragments	LWS	0.16
Abergele Golf Course 4	LWS	0.16
Coed Y Waen	LWS	0.19
Pwll Coed Pen y Bryn	LWS	0.23
Hen Wrych Pond	LWS	0.24
Bryn Meiriadog	LWS	0.25
Pwll Rookery	LWS	0.30
Abergele Golf Course 2	LWS	0.37
Tan y mynydd	LWS	0.38
Abergele Golf Course 3	LWS	0.41
Dinorben Lodge Quarry	LWS	0.43
North Wales Holiday Camp	LWS	0.46
Glascoed	LWS	0.48



Site Name	Designation	Distance from the Mona Onshore Development Area (km)
Coed Pen-y-bryn	LWS	0.48
Coed Wig	LWS	0.50
Moelfre Isaf heath fragments	LWS	0.52
Afon Gele Grassland	LWS	0.53
St Cynbryd's Church Verge	LWS	0.54
Abergele grazing marsh	LWS	0.55
Coed Meibion	LWS	0.58
Ty'n-y-Coed Rough	LWS	0.60
Glascoed	LWS	0.62
Moelfre Isaf heath fragments	LWS	0.66
Abergele Golf Course 1	LWS	0.70
Afon Gele	LWS	0.71
Coed Bron Haul	LWS	0.72
Coed Ysgerirallt	LWS	0.75
Ty'n-y-Coed Rough	LWS	0.78
Coed Tan-y-bryn	LWS	0.78
Llyn Tyddyn Uchaf	LWS	0.81
Coed Fron and Eryl Hall Wood	LWS	0.92
Pwll Fardre	LWS	0.95
Pwllau Graig	LWS	0.98
Ffordd Llindir	LWS	1.12
Berthglyd Pond	LWS	1.14
Mynydd y Gaer	LWS	1.14
Coed Parc y Meirch / Coed Ty Croes	LWS	1.14
Coed Nant-y-graig	LWS	1.22
Coed Kendrick	LWS	1.28
Abergele Hospital Grounds	LWS	1.31
Coed y Gopa Extension	LWS	1.32
Coed Ty Brith	LWS	1.33
Coed Bont Newydd	LWS	1.44
Mynydd Bodrochwyn / Bron Heulog Heath	LWS	1.44
Coed y Geufron	LWS	1.48
Coed Mawr	LWS	1.48



Site Name	Designation	Distance from the Mona Onshore Development Area (km)
Coed Parc Kinmel	LWS	1.52
Fferam Ffordd Las Bach	LWS	1.55
Llanddulas limestone	LWS	1.56
Nant Glyd	LWS	1.59
Pwll Parc Kimmel	LWS	1.63
The Warren	LWS	1.64
Mount Road Churchyard, St Asaph	LWS	1.67
Mynydd y Gaer Grassland	LWS	1.68
Llyn Brynffanigi Uchaf	LWS	1.69
Coed PlasUchaf	LWS	1.71
Chapel Wood/Coed Mawr	LWS	1.78
Coed Peniarth Fawr	LWS	1.80
Geuallt Isaf Wood	LWS	1.81
Coed Mynydd Bodrochwyn	LWS	1.81
Coed Nant Ddu	LWS	1.84
Cynant Ganol, eastern pond	LWS	1.88
Cynant Ganol, western pond	LWS	1.88
Isallt crags and Bryn Gwylan	LWS	1.89
Afon Elwy (N1)	LWS	1.89
Trawscoed	LWS	1.90
Bryn Plas Uchaf	LWS	1.93
Ffordd Las	LWS	1.99



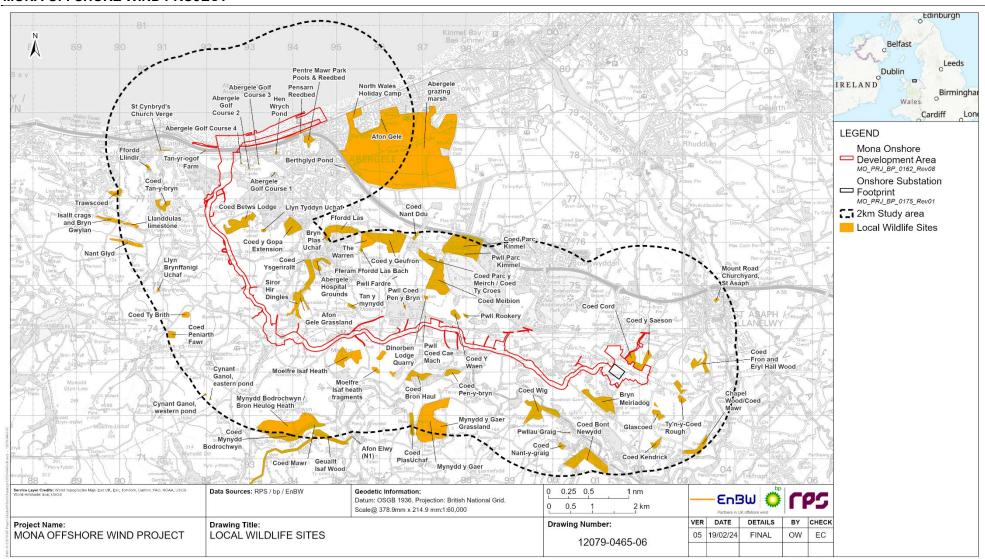


Figure 1.6: Locally designated sites (non-statutory) within 2 km of the Mona Onshore Development Area.



### 1.4.3 Habitats of Principal Importance

1.4.3.1 In Wales, Section 7 of the Environment (Wales) Act 2016 affords 55 habitats due regard in the planning system. All habitats listed under Section 7 of the Environment (Wales) Act 2016 are Habitats of Principal Importance (SPI) in Wales and represent rare and notable habitats. Public bodies and local planning authorities have a legal duty to conserve SPI and HPI when exercising their duties.

## **Ancient Woodland**

- 1.4.3.2 There are 156 ancient woodlands within 2km of the Mona Onshore Development Area. Of the areas of ancient woodland identified, 5 are within the Mona Onshore Development Area. The location in relation to the Mona Onshore Development Area and their geographic extent are illustrated in Figure 1.7 below.
- 1.4.3.3 It is acknowledged that an ancient woodland may comprise one or more woodland compartments. A woodland compartment maybe defined by the quality or age of the ancient woodland, or the associated habitat management practices. The exact number of ancient woodlands within the onshore ecology desk study area is therefore subjective and dependent on how an ancient woodland is defined. This assessment groups contiguous ancient woodland compartments as one woodland.

### **Traditional orchard**

1.4.3.4 There are 24 traditional orchards within 2 km of the Mona Onshore Development Area. Of these, none are within the Mona Onshore Development Area. Orchards vary in their size, age and quality, and some have been subject to detailed survey, whereas others have been identified and assessed from aerial imagery. For the purposes of this assessment all traditional orchards that have been categorised as HPI have been included. All orchards that have been categorised as 'probably' traditional orchards have been assumed to be HPI in line with the precautionary approach. No other orchard types have been assumed to be HPI. The location in relation to the Mona Onshore Development Area and their geographic extent are illustrated in Figure 1.8 below.

### **Wood Pasture and Parkland**

1.4.3.5 There is one area of wood pasture and three areas of parkland within 2 km of the Mona Onshore Development Area. Two areas of parkland are within the Mona Onshore Development area. Their relation to the Mona Onshore Development Area and their geographic extent are illustrated in Figure 1.9 Below.

## Lowland Calcareous Grassland

- 1.4.3.6 There are 9 areas of lowland calcareous grassland within 2 km of the Mona Onshore Development Area. None of these were within the Mona Onshore Development Area. Their relation to the Mona Onshore Development Area and their geographic extent are illustrated in Figure 1.9 below.
- 1.4.3.7 It is acknowledged that lowland calcareous grassland may comprise one or more grassland compartments (e.g. sub-sections of fields, field or adjacent fields). A grassland compartment may be defined by quality, extent or its management practices. The exact number of lowland calcareous grasslands within the onshore ecology desk study area is therefore subjective and dependent on how this type of grassland is



defined. This assessment groups contiguous lowland calcareous grassland compartments as one grassland.

### **Lowland Dry Acid Grassland**

1.4.3.8 There are 39 areas of lowland dry acid grassland within 2 km of the Mona Onshore Development Area. Of these, one lies within the Mona Onshore Development Area. Their relation to the Mona Onshore Development Area and their geographic extent are illustrated in Figure 1.9 below.

### **Lowland Heath**

1.4.3.9 There are 34 areas of lowland heath within 2 km of the Mona Onshore Development Area. None of the lowland heath was within the Mona Onshore Development Area. The relation to the Mona Onshore Development Area and their geographic extent are depicted below in Figure 1.9.

### Open Mosaic Habitat on previously Developed Land

1.4.3.10 There are five areas of open mosaic habitat on previously developed land located within 2 km of the Mona Onshore Development Area. None of this habitat was within the Mona Onshore Development Area. The geographic extent and relation to the Mona Onshore Development Area is shown in Figure 1.10 below.

### **Lowland Fens and Reedbeds**

1.4.3.11 There are four areas of lowland fens and reedbeds within 2 km of the Mona Onshore Development Area. None of this habitat was within the Mona Onshore Development area. The location of these lowland fens and reedbeds and their geographic extent are illustrated in Figure 1.10 below.

### **Coastal Vegetated Shingle**

1.4.3.12 There is one area of coastal vegetated shingle within 2 km of the Mona Onshore Development Area. The habitat was within the Mona Onshore Development Area, the position of this area and its geographic extent is illustrated in Figure 1.10 below.



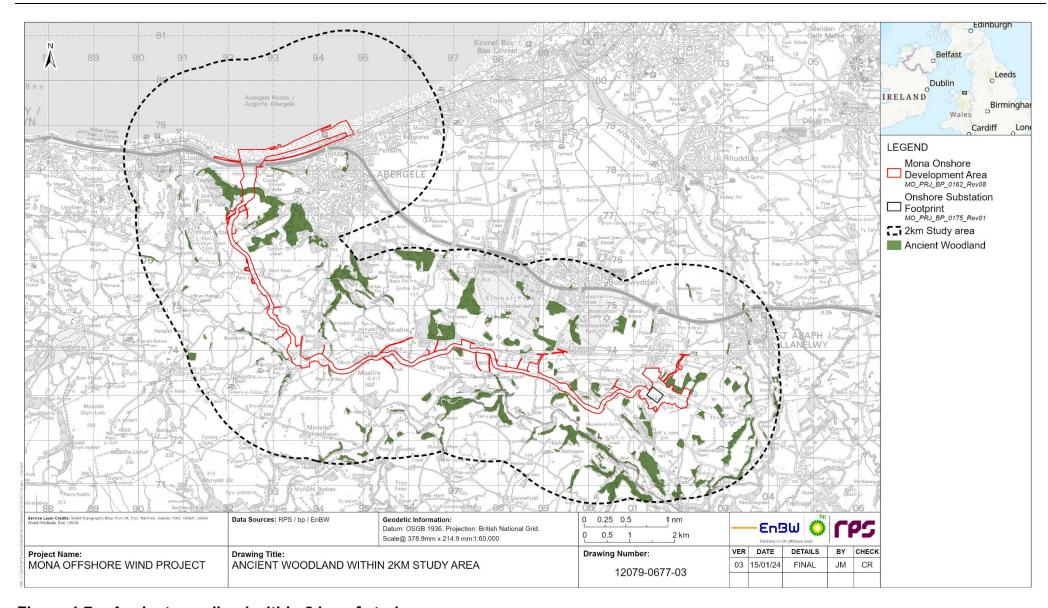


Figure 1.7: Ancient woodland within 2 km of study area.



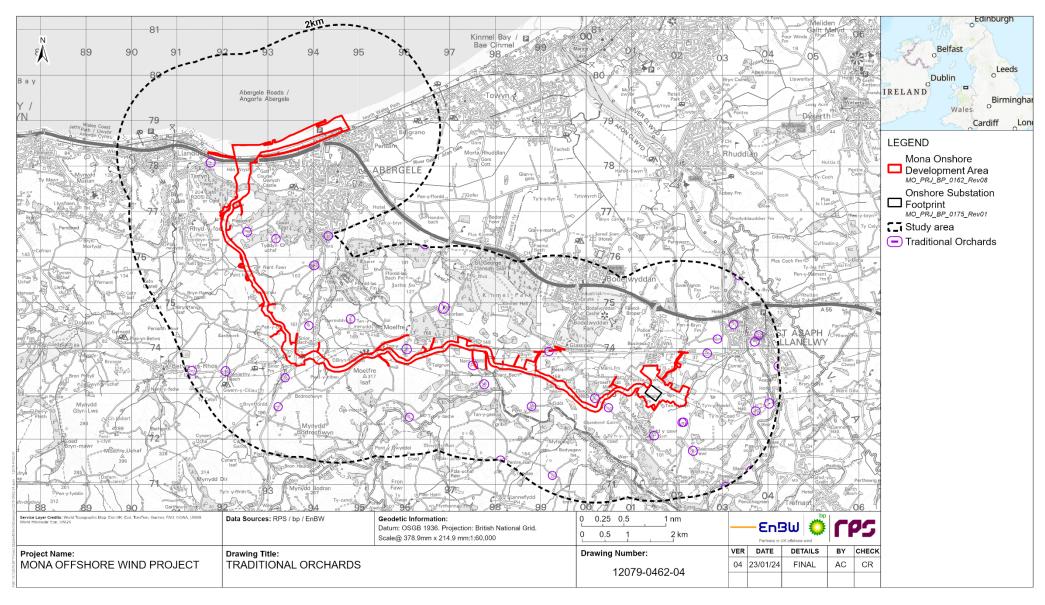


Figure 1.8: Traditional orchards.



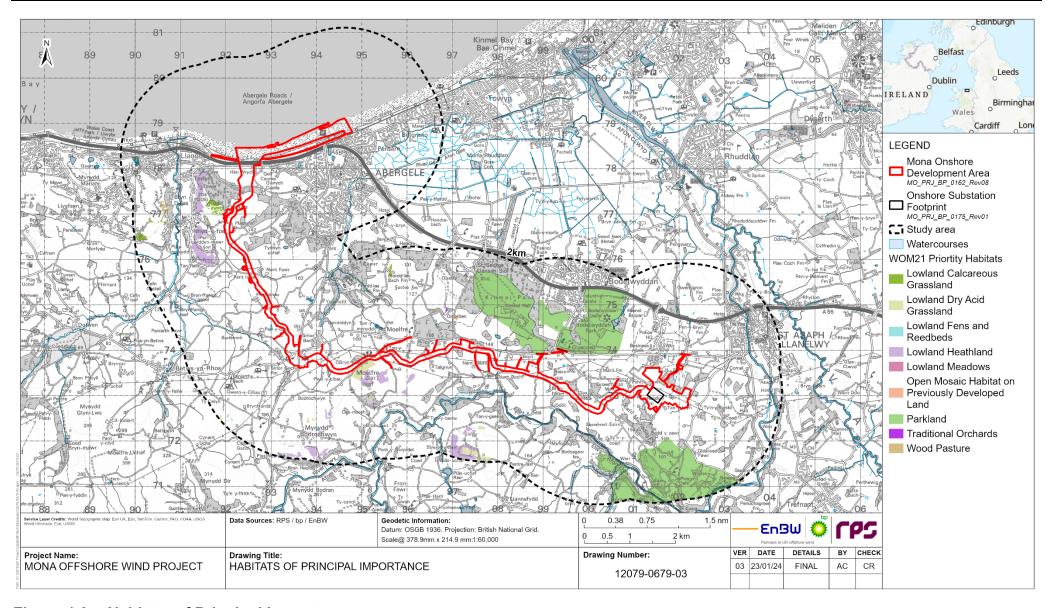


Figure 1.9: Habitats of Principal Importance.



### 1.4.4 Protected and notable species

1.4.4.1 Protected and notable species refers to any species specially protected or listed under the following legislation or which is identified as being of nature conservation concern in the lists referred to below:

### **Protected species**

- The Conservation of Habitats and Species Regulations 2017 Schedule 2 (European Protected Species) (CHS2) and Schedule 4 (Animals which may not be captured or killed in certain ways) (CHS4)
- Schedules 5, 8 and 9 of the Wildlife and Countryside Act 1981 (as amended) (referred to as WCA5, WCA8 and WCA9 respectively)
- The Protection of Badgers Act 1992 (PBA)
- Environment (Wales) Act 2016 (Section 7) (S7)
- Bern Convention on the Conservation of European Wildlife and Natural Habitats, Appendix 2 - Strictly protected fauna species (Bern2), Appendix 3 -Protected fauna species (Bern3)

## **Notable species**

- Red list based on The International Union for Conservation of Nature (IUCN) guidelines Critically Endangered (CE), Data Deficient (DD), Endangered (EN), Extinct (EX), Least Concern (LC), Near Threatened (NT), Rare (R), Vulnerable (VU)
- UK Biodiversity Action Plan (BAP) Priority Species
- Great Britain Non-native Species Inventory Portal Checklist of Non-native Species
- 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)
- Invasive Non-native species (INNS)
- Local Biodiversity Actional Plan (LBAP)
- Locally Important Species in Vice-Counties (LI-)
- Bryophyte Rarity List for Vice-County (LI-BR-)
- Rare Plant Register for Vice-Counties (LI-VP-).
- 1.4.4.2 Noteworthy records of protected and otherwise important species are described in the following sections of this technical report below and a full summary of these species can be found in Appendix A of this technical report.

### **Flora**

1.4.4.3 The onshore ecology desk study identified one plant species protected under WCA8 that had historically been recorded within the Mona Onshore Development Area, bluebell *Hyacinthoides non-scripta*.



- 1.4.4.4 The onshore ecology desk study identified ten flora species, comprising 164 records, that are of national importance and were recorded within the onshore ecology desk study area. Species of national importance include species listed in a national Biodiversity Action Plan, cited in an IUCN Red Data Book as Nationally Scarce, listed as Critically Endangered or Endangered by IUCN or listed as nationally important on the Rare Plant Register or the Vascular Plant Red Data List. All ten species had been recorded within the Mona Onshore Development Area. The records, common name, Latin name, their conservation status and how many records were from within the Mona Onshore Development Area are presented in Table 1.5 below.
- 1.4.4.5 The onshore ecology desk study returned hundreds of records of notable flora species that were of county or local importance within 1 km of the Mona Onshore Development Area. Given their number, the data are presented in Appendix A of this technical report.

Table 1.5: Flora of national importance within the Mona Onshore Development Area.

Number of records	Number of records within Mona Onshore Development Area	Common name	Latin name	Conservation status
40	2	Alexanders	Smyrnium olusatrum	GBNNSIP, LI-48[LS], LI- VP-48[LS]
7	1	Autumn Lady's tresses	Spiranthes spiralis	LBAP-C, LBAP-G, LI- 48[LS], LI-49[LS], LI- 50[LR], LI-51[LS], LI- 52[LS], LI-VP-48[LS], LI- VP-49[LS], LI-VP-50[LS], LI-VP-51[LS], LI-VP- 52[LS], RL-NT
47	2	Bluebell	Hyacinthoides non- scripta	LBAP-A, LBAP-C, LBAP- E, LBAP-F, LBAP-T, WCA8
11	3	Chicory	Cichorium intybus	GBNNSIP, LI-49[LR], LI-50[LS], LI-51[LS], LI-VP-49[LR], LI-VP-50[LNS], LI-VP-51[LS]
8	1	Scented Mayweed	Matricaria chamomilla	GBNNSIP, LI-48[LS], LI- VP-48[LS]
9	1	Scentless Mayweed	Tripleurospermum inodorum	GBNNSIP, LI-48[LS], LI- VP-48[LS]
11	1	Weld	Reseda luteola	GBNNSIP, LI-48[LS], LI- VP-48[LS]
18	3	White Campion	Silene latifolia	GBNNSIP, LI-48[LS], LI- VP-48[LS]
9	1	Wild Leek	Allium ampeloprasum	GBNNSIP, LBAP-C, LI- 50[LS], LI-52[LR], LI-VP- 49[LE], LI-VP-50[LS], LI- VP-52[LR], RDB-NS, WRL-VP[VU]
3	1	Wormwood	Artemisia absinthium	GBNNSIP, LI-48[LS], LI- VP-48[LS], LI-VP- 50[LNS]



1.4.4.6 Flora of national importance recorded within 1 km of the Mona Onshore Development Area are presented in Figure 1.10 to Figure 1.12, and Appendix A of this technical report. The Identification (ID) numbers for each species of flora presented in Figure 1.10 to Figure 1.12 are presented in Table 1.6 below.

Table 1.6: Flora species of national importance within 1 km of the Mona Onshore Development Area and associated ID numbers presented in Figure 1.10 to Figure 1.12.

ID	ENGLISH	ID	ENGLISH	ID	ENGLISH
1	Alexanders	26	Field Pansy	51	Scentless Mayweed
			,		
2	Annual Beard-grass	27	Field Woundwort	52	Scots Pine
3	Autumn Lady's-tresses	28	Fig-leaved Goosefoot	53	Sea-buckthorn
4	Black-bindweed	29	Flowering-rush	54	Sharp-leaved Fluellen
5	Black-poplar	30	Fly Orchid	55	Sheep's-bit
6	Black Bent	31	Good-King-Henry	56	Small Nettle
7	Bladder Campion	32	Greater Burdock	57	Small Scabious
8	Bluebell	33	Greater Butterfly-orchid	58	Southern Crestwort
9	Вох	34	Green-winged Orchid	59	Spiked Speedwell
10	Broad-leaved Osier	35	Green Field-speedwell	60	Spring Cinquefoil
11	Butcher's-broom	36	Helianthemum oelandicum subsp. Incanum	61	Stinking Hellebore
12	Caper Spurge	37	Henbit Dead-nettle	62	Strawberry Clover
13	Chaffweed	38	Juniper	63	Tall Melilot
14	Charlock	39	Keeled-fruited Cornsalad	64	Vervain
15	Chicory	40	Lesser Butterfly-orchid	65	Weld
16	Cladophora glomerata	41	Lesser Periwinkle	66	Welsh Poppy
17	Corn Marigold	42	Mountain Currant	67	Western Spiked Speedwell
18	Corn Spurrey	43	Musk Stork's-bill	68	White Campion



ID	ENGLISH	ID	ENGLISH	ID	ENGLISH
19	Cornish Heath	44	Pale St John's-wort	69	White Horehound
20	Cotton Thistle	45	Prickly Lettuce	70	White Willow
21	Cyperus Sedge	46	Rat's-tail Fescue	71	Wild-oat
22	Dwarf Mouse-ear	47	Reindeer Moss	72	Wild Cabbage
23	Elecampane	48	Rock Whitebeam	73	Wild Leek
24	Euphorbia amygdaloides subsp. Robbiae	49	Rough Hawk's-beard	74	Wormwood
25	Euphrasia arctica	50	Scented Mayweed		



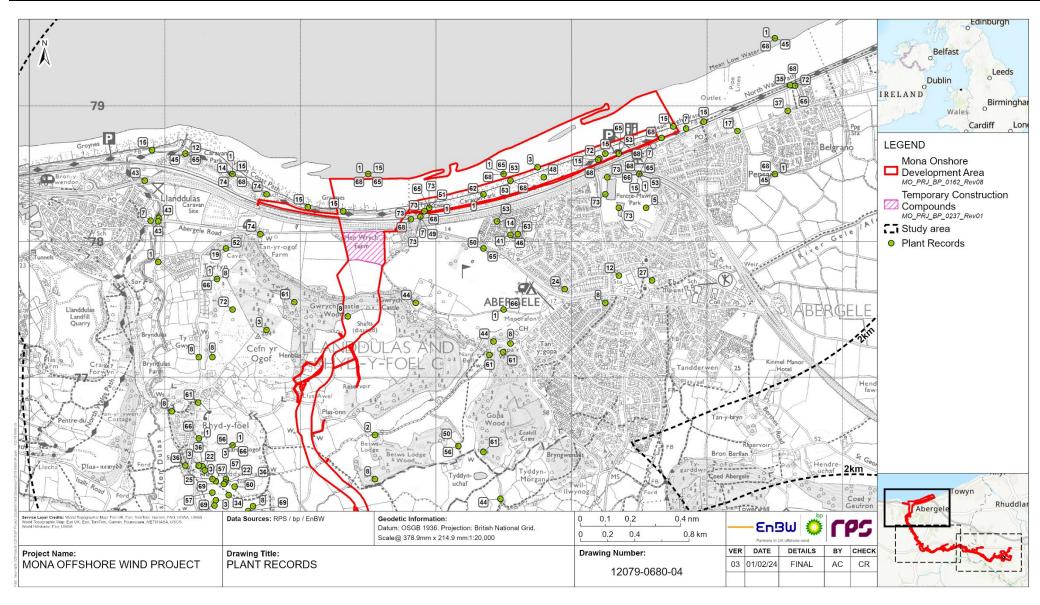


Figure 1.10: Plant records.



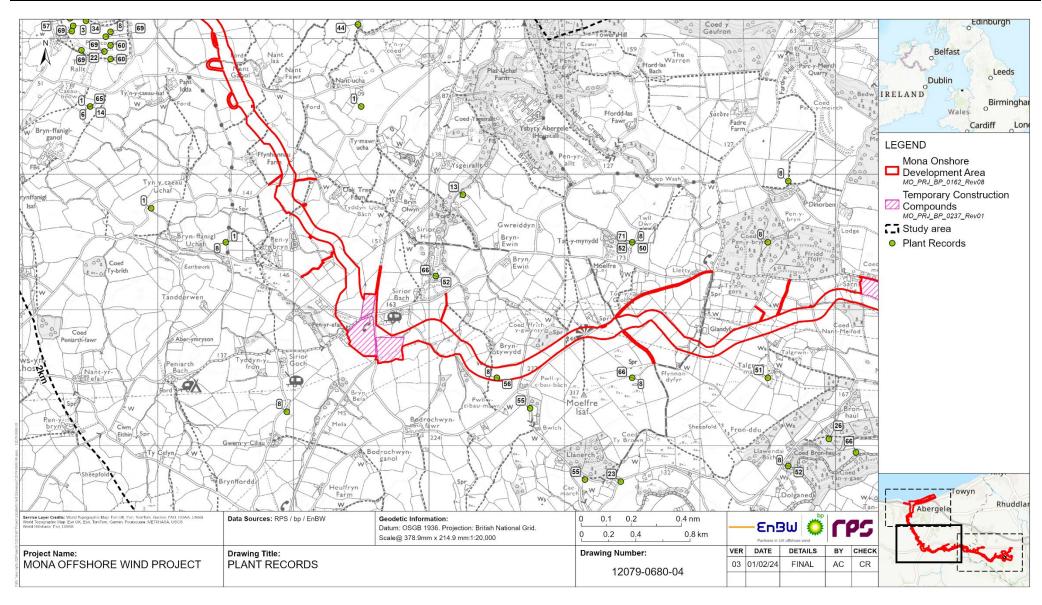


Figure 1.11: Plant records.



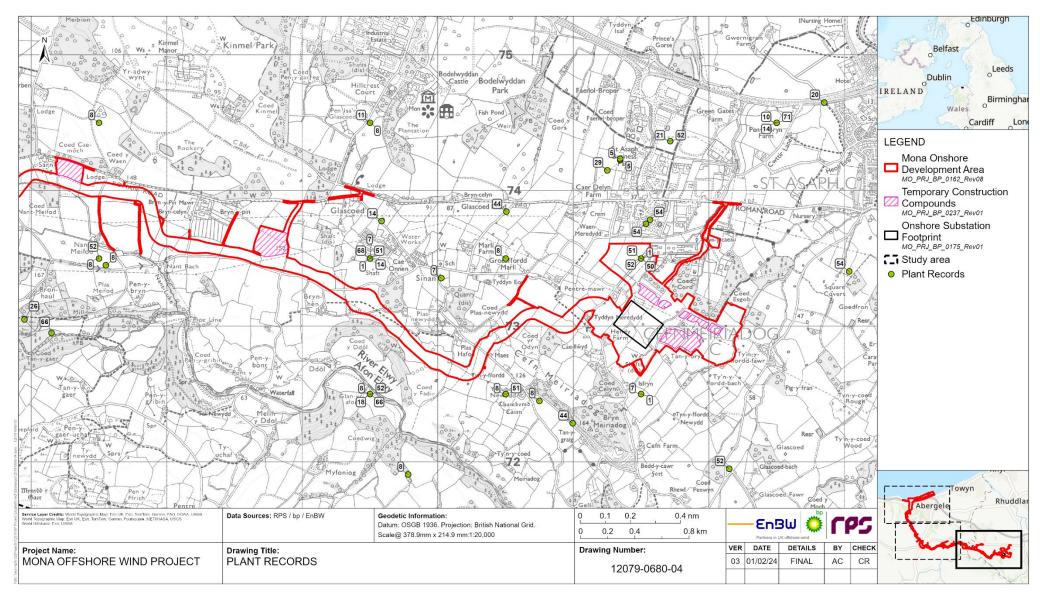


Figure 1.12: Plant records.





# **Terrestrial invertebrates**

- 1.4.4.7 The onshore ecology desk study identified two protected terrestrial invertebrate species within the Mona Onshore Development Area, White-letter Hairstreak Satyrium w-album and Silver-studded Blue Plebejus argus. Both species are protected under the WCA5.
- 1.4.4.8 The onshore ecology desk study identified 19 terrestrial invertebrate species, comprising 30 records, that are of national importance and were recorded within onshore ecology desk study area. Species of national importance include protected species, species listed in a national Biodiversity Action Plan, and species cited in an IUCN Red Data Book as Nationally Scarce. One of the records were recorded within the Mona Onshore Development Area, Common Darter Sympetrum striolatum. The records, common name, Latin name, their conservation status and if they were located within the Mona Onshore Development Area are presented in Table 1.7 below.
- 1.4.4.9 The onshore ecology desk study returned hundreds of records of notable terrestrial invertebrate species that were of county or local importance within 1km of the Mona Onshore Development Area. Given their number, the data are presented in Appendix A of this technical report.



Table 1.7: Records of notable terrestrial invertebrates within 1 km of the Mona Onshore Development Area.

Number of records	Within Mona Onshore Development Area (Yes/No)	Common Name	Latin Name	Conservation Status
1	No	Chalk carpet	Scotopteryx bipunctaria	BAP, S7
6	No	Cinnabar	Tyria jacobaeae	BAP
1	No	Coastal Pearl	Mecyna asinalis	RDN-NB
7	Yes (1 record)	Common Darter	Sympetrum striolatum	RL-DD
1	No	Dark Brocade	Mniotype adusta	BAP, S7
1	No	Dingy Skipper	Erynnis tages	BAP, RL-VU, S7
1	No	Dusky Brocade	Apamea remissa	BAP, S7
1	No	Ghost Moth	Hepialus humuli	BAP, S7
1	No	Grayling	Hipparchia Semele	BAP, RL-VU, S7
1	No	Large Wainscot	Rhizedra lutosa	BAP, S7
1	No	Latticed Heath	Chiasmia clathrate	BAP, S7
1	No	Mouse Moth	Amphipyra tragopoginis	BAP, S7
1	No	Shaded Broad-bar	Scotopteryx chenopodiata	BAP, S7
1	No	Shaded Broad-bar	Scotopteryx chenopodiata	BAP, S7
1	No	Shoulder-striped Wainscot	Leucania comma	BAP, S7
1	No	Silver-studded Blue	Plebejus argus	BAP, RL-VU, S7, WCA5
1	No	Small Heath	Coenonympha pamphilus	BAP, RL-NT, S7
1	No	Wall	Lasiommata megera	BAP, RL-NT, S7
1	No	White-letter Hairstreak	Satyrium w-album	BAP, S7, WCA5

1.4.4.10 The terrestrial invertebrate species of national importance recorded within 1 km of the Mona Onshore Development Area are presented in Figure 1.13 to Figure 1.15, and Appendix A of this technical report. The ID numbers for each species of flora are presented in Table 1.8 below.



Table 1.8: Terrestrial invertebrates species of national importance within 1 km of the Mona Onshore Development Area and associated ID numbers presented in Figure 1.13 to Figure 1.15.

ID	ENGLISH	ID	ENGLISH
1	August Thorn	26	Grey Dagger
2	Beaded Chestnut	27	Hedge Rustic
3	Blood-vein	28	Large Wainscot
4	Brindled Beauty	29	Latticed Heath
5	Broom Moth	30	Mottled Rustic
6	Brown-spot Pinion	31	Mouse Moth
7	Buff-tailed Bumblebee	32	Oak Hook-tip
8	Buff Ermine	33	Plebejus argus caernensis
9	Centre-barred Sallow	34	Powdered Quaker
10	Chalk Carpet	35	Rosy Rustic
11	Cinnabar	36	Rustic
12	Coastal Pearl	37	Sallow
13	Common Darter	38	September Thorn
14	Dark Brocade	39	Shaded Broad-bar
15	Dingy Skipper	40	Shoulder-striped Wainscot
16	Dot Moth	41	Silver-studded Blue
17	Dusky-lemon Sallow	42	Silver-Studded Blue
18	Dusky Brocade	43	Sitona macularius
19	Dusky Thorn	44	Small Heath
20	Feathered Gothic	45	Small Phoenix
21	Figure of Eight	46	Small Square-spot
22	Garden Tiger	47	Wall
23	Ghost Moth	48	White-letter Hairstreak
24	Grayling	49	White Ermine
25	Green-brindled Crescent		



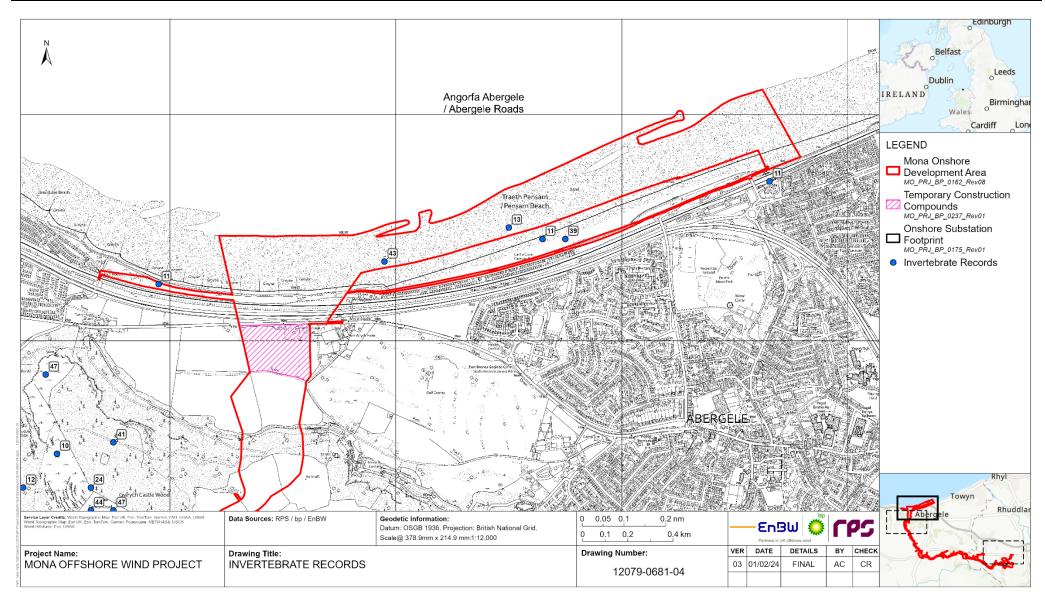


Figure 1.13: Invertebrate records.



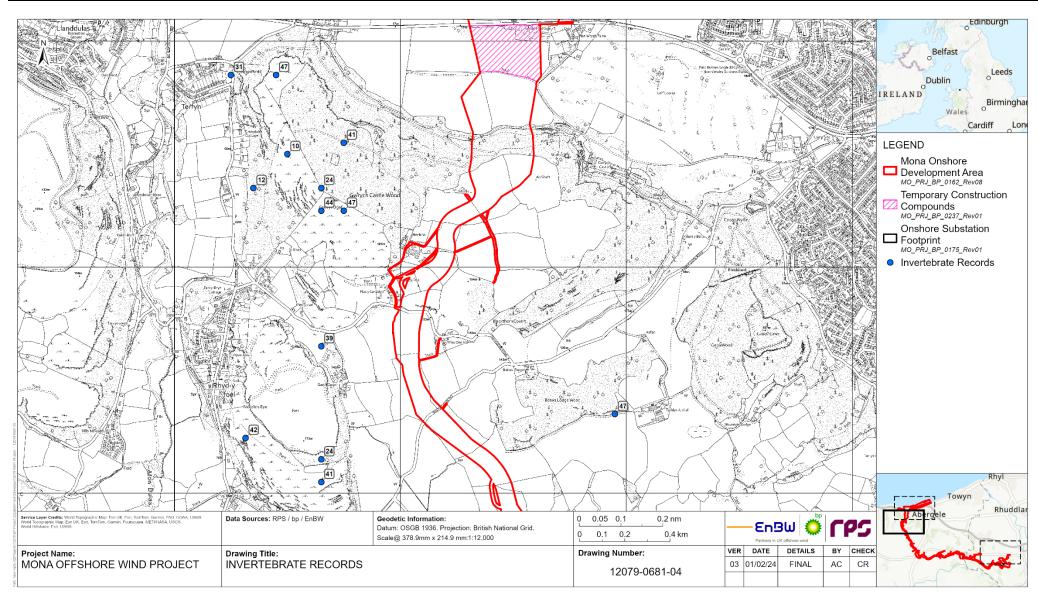


Figure 1.14: Invertebrate records.



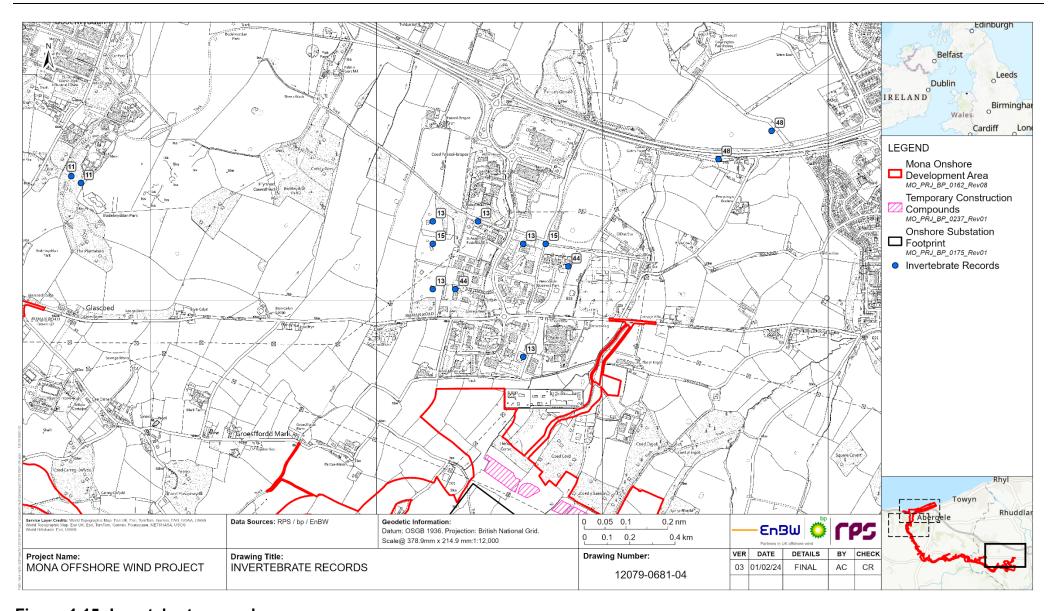


Figure 1.15: Invertebrate records.



# Aquatic invertebrates and fish

- 1.4.4.11 The onshore ecology desk study did not identify any records of protected or notable aquatic invertebrates or fish within 2 km of the Mona Onshore Development Area.
- 1.4.4.12 The European eel is a Critically Endangered species in accordance with the International Union for Conservation of Nature's Red List. Critically Endangered species are facing an extremely high risk of extinction in the wild. The most recent record was of a European eel from 2009, located 440 m outside the Mona Onshore Development Area. No records were recorded within the Mona Onshore Development Area.

# **Amphibians and reptiles**

# **Great Crested Newt (GCN)**

- 1.4.4.13 In total, 31 record of GCN were identified within 2 km of the Mona Onshore Development Area. Of these, the most recent record dates from 2023. The most recent record was identified in 2023 in a pond at the St Asaph Business Park, less than 500 m to the north of the Mona Onshore Development Area. Two records were within the Mona Onshore Development Area, north of the Onshore Substation. The locations of the GCN records within 2 km of the Mona Onshore Development Area are presented in Figure 1.16 of this technical report below.
- 1.4.4.14 GCN survey data from other sources was obtained from infrastructure projects and monitoring schemes that overlapped with or were in proximity to the Mona Onshore Development Area. These projects were located to the Eastern end of the Mona Onshore Development Area and include: Burbo Bank Extension Offshore Wind Farm, Awel Y Môr Offshore Wind Farm, St Asaph Business Park and St Asaph Solar Farm. The results are summarised in Volume 7, Annex 3.3: Great Crested Newt technical report.

# Other amphibians

1.4.4.15 The location of other amphibian records, including common toad *Bufo bufo*, common frog *Rana temporaria*, smooth newt *Lissotriton vulgaris* and palmate newt *Lissotriton helveticus* within 2 km of the Mona Onshore Development Area are presented in Figure 1.17 of this technical report below. The number of records, common name, Latin name, legal protection and if they were located within the Mona Onshore Development Area are presented in Table 1.9 below.

Table 1.9: Records of other notable amphibian species within 2 km of the Mona Onshore Development Area.

Number of records	Within Mona Onshore Development Area (Yes/No)	Common Name	Latin Name	Conservation Status
20	Yes (5 records)	Common Frog	Rana temporaria	Bern3, HDir5, LBAP- A, LBAP-C, LBAP-F, LBAP-T, WCA5
18	Yes (5 records)	Common Toad	Bufo bufo	BAP, Bern3, LBAP-A, LBAP-C, LBAP-D,

Number of records	Within Mona Onshore Development Area (Yes/No)	Common Name	Latin Name	Conservation Status
				LBAP-F, LBAP-G, LBAP-T, S7, WCA5
27	Yes (6 records)	Palmate Newt	Lissotriton helveticus	Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5
25	Yes (6 records)	Smooth Newt	Lissotriton vulgaris	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5

# **Reptiles**

1.4.4.16 Three species of reptile were identified within 2 km of the Mona Onshore Development Area. Notably, a large population of grass snake *Natrix helvetica* north of the Onshore Substation and slow worm *Anguis fragilis* north-east of the onshore substation footprint. The location of reptile records within 2 km of the Mona Onshore Development Area are presented in Figure 1.18 of this technical report. The number of records, common name, Latin name, legal protection and if they were located within the Mona Onshore Development Area are presented in Table 1.10 below.

Table 1.10: Records of notable reptile species within 2 km of the Mona Onshore Development Area.

Number of records	Within Mona Onshore Development Area (Yes/No)	Common Name	Latin Name	Conservation Status
6	No	Common Lizard	Zootoca vivipara	BAP, Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, LBAP-T, S7, WCA5
7	No	Grass Snake	Natrix helvetica	BAP, Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, LBAP-T, S7, WCA5
17	No	Slow Worm	Anguis fragilis	BAP, Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, LBAP-T, S7, WCA5

# **Mammals**

## **Bats**

1.4.4.17 In total, 10 species of bat were identified within 2 km of the Mona Onshore Development Area. However, several records were not identified to the species level.



There were 124 historical records of bats identified within 2km of the Mona Onshore Development Area.

- 1.4.4.18 There were 46 records of bat roosts within 2 km of the Mona Onshore Development Area, which included 11 record of lesser horseshoe bat *Rhinolophus hipposideros* roosts. Of the lesser horseshoe bat records identified, one was located in Elwy Valley Woods, one was in the Coed Y Gopa SSSI, and one was in the Llanddulas Limestone and Gwrych Castle Wood SSSI. No bats were recorded within the Mona Onshore Development Area. The details of records within 2 km of the Onshore Development Area are listed in Appendix A, Table A. 4 of this technical report.
- 1.4.4.19 The location of recorded bat roosts are presented in Figure 1.19 to Figure 1.22 and other protected or notable bat records from bat detectors, ringing/ tagging or droppings are presented in Figure 1.23 to Figure 1.26 of this technical report below.

## Other mammals

- 1.4.4.20 The desk study found records of water vole, otter, badger and hazel dormouse within 2 km of the Mona Onshore Development Area.
- 1.4.4.21 The desktop study confirmed that otter are distributed across Wales, but the population is in decline. Otter were present at 90% of the 1073 sites surveyed by Natural Resources Wales in 2010 but the occupancy had dropped to 70% in 2015 to 2018, indicating a decline of approximate 20% (Natural Resources Wales, 2021).
- 1.4.4.22 There were 19 historical records of otter from between 2011 and 2022 within the otter study area (i.e. within 2 km of the Mona Onshore Development Area). No otter records were recorded within the Mona Onshore Development Area.
- 1.4.4.23 The desktop study confirmed that water vole is the fastest declining mammal across the UK and populations in Wales have declined by 89% since 1995 (DataMapWales, 2023). Isolated patches of potential habitat are present across Wales. The north-west of Wales and the northern coast are recognised as having a high likelihood of being suitable for the species.
- 1.4.4.24 There were four records of water vole from between 2012 and 2019 within 2 km of the Mona Onshore Development Area (the water vole study area). No water vole records were recorded within the Mona Onshore Development Area.
- 1.4.4.25 There were 88 historical records of badger dated between 2013 and 2023 within the badger study area (i.e. within 2 km of the Mona Onshore Development Area). Six badger records were recorded within the Mona Onshore Development Area. No badger records were recorded within the Onshore Substation.
- 1.4.4.26 Wales is on the edge of the distribution range of hazel dormouse in Britain and records indicate a sparse distribution of the species in this country (Peoples Trust for Endangered Species, 2023). Hazel dormouse are widely distributed in Wales but individual populations are usually small and often isolated. Hazel dormouse are infrequently recorded in North Wales with few known populations, which are scattered (www.gwynedd.llyw.cymru). The species is more abundant in South Wales.
- 1.4.4.27 There were five historical records of hazel dormouse dated between 2010 and 2017 within the hazel dormouse study area. All five records were located outside the Mona Onshore Development Area but within the 2 km hazel dormouse study area buffer. Further information is provided in Annex 3.1 Onshore Ecology Desk Study.
- 1.4.4.28 Data for the following notable mammals was also identified within 2 km of the Mona Onshore Development Area:

- One record of common shrew Sorex araneus was recorded outside the Mona Onshore Development Area.
- 23 records of fallow deer *Dama dama* were recorded outside the Mona Onshore Development Area.
- 91 record of hedgehog *Erinaceus europaeus*. One of these was within the Mona Onshore Development Area.
- Three records of hare *Lepus europaeus* were recorded outside the Mona Onshore Development Area.
- Seven records of polecat Mustela putorius were recorded outside the Mona Onshore Development Area.
- 1.4.4.29 The date ranges of these records are in Appendix A, Table A. 5 of this technical report.
- 1.4.4.30 The location of protected or notable other mammal records within 2 km of the Mona Onshore Development Area is presented in Figure 1.27 to Figure 1.29 of this technical report below, with the exception of badger which are kept confidential to avoid persecution of badgers. The number of records, common name, Latin name, legal protection and if they were located within the Mona Onshore Development Area are presented in Table 1.11 below.

Table 1.11: Records of notable mammal species within 2 km of the Mona Onshore Development Area.

Number of records	Within Mona Onshore Development Area (Yes/No)	Common Name	Latin Name	Conservation Status
88	Yes (6 records)	Badger	Meles meles	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-W, PBA
1	No	Common Shrew	Sorex araneus	Bern3, LBAP-A, LBAP-C
23	No	Fallow Deer	Dama dama	Bern3, GBNNSIP, LBAP-C
3	No	Hare	Lepus europaeus	BAP, LBAP-A, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, S7
5	No	Hazel Dormouse	Muscardinus avellanarius	BAP, Bern3, CHS2, HDir4, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, LBAP-T, RL-VU, S7, WCA5, WRL-TM[VU]
91	Yes (1 record)	Hedgehog	Erinaceus europaeus	BAP, Bern3, LBAP-A, LBAP-C, LBAP-F, LBAP-G, RL-VU, S7, WRL-TM[VU]
19	No	Otter	Lutra lutra	BAP, Bern2, CHS2, CITES-A, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-E, LBAP-F,



Number of records	Within Mona Onshore Development Area (Yes/No)	Common Name	Latin Name	Conservation Status
				LBAP-G, LBAP-T, LBAP-W, S7, WCA5, WRL-TM[VU]
7	No	Polecat	Mustela putorius	BAP, Bern3, CHS4, HDir5, LBAP-C, LBAP-E, LBAP-F, LBAP-G, S7
4	No	Water Vole	Arvicola amphibius	BAP, LBAP-A, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, LBAP-T, RL-EN, S7, WCA5, WRL-TM[EN]

1.4.4.31 To protect the welfare of badgers, all data regarding the location of active badger setts has been removed. Details are provided in the Volume 7, Annex 3.12: Badger technical report of the Environmental Statement. Volume 7, Annex 3.12: Badger technical report of the Environmental Statement is a confidential document and available upon request to those with a legitimate need to view this information.



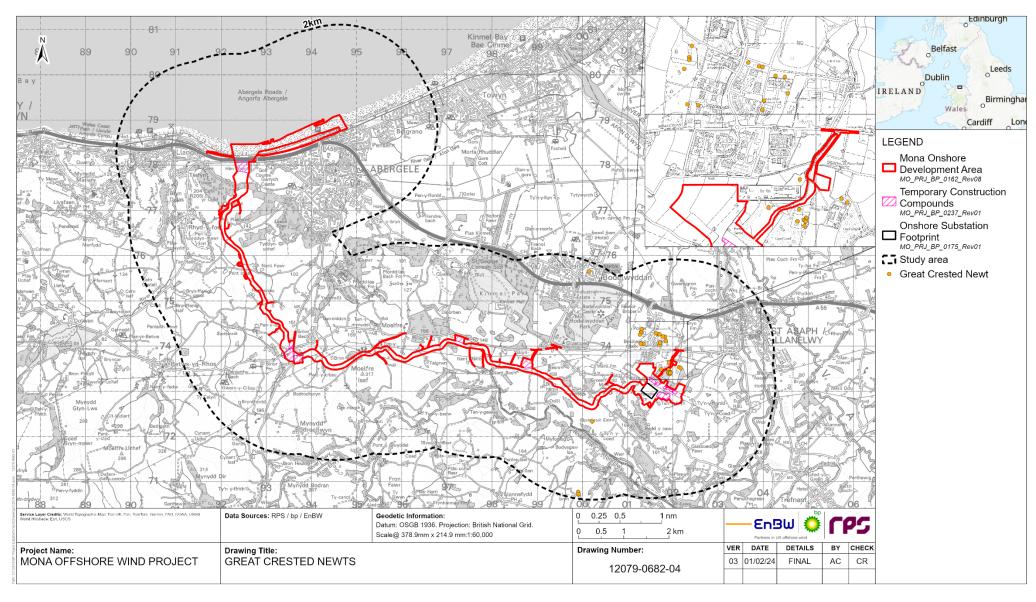


Figure 1.16: Great crested newt records.



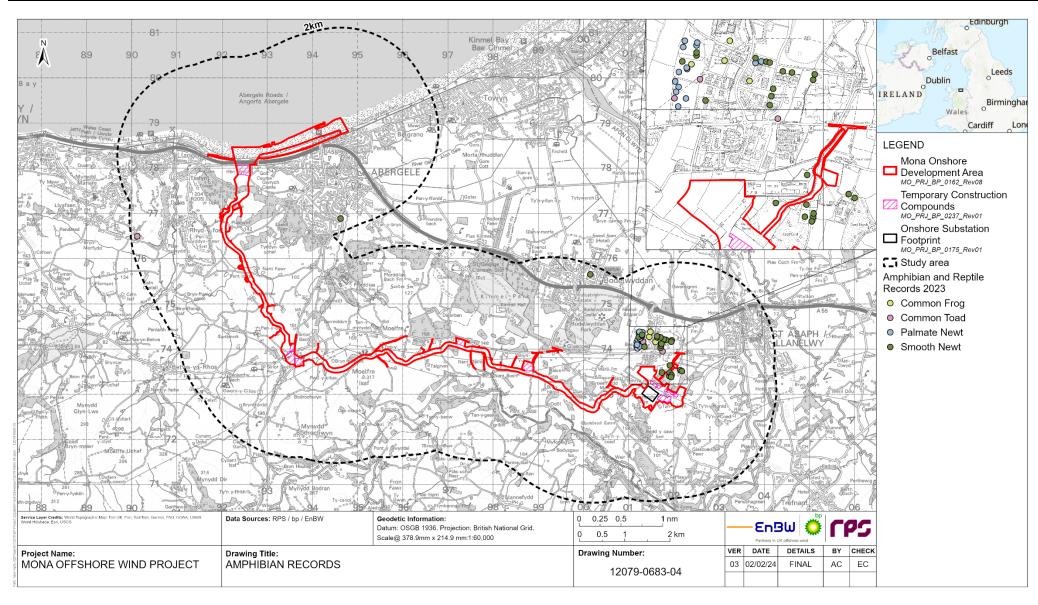


Figure 1.17: Amphibian records.



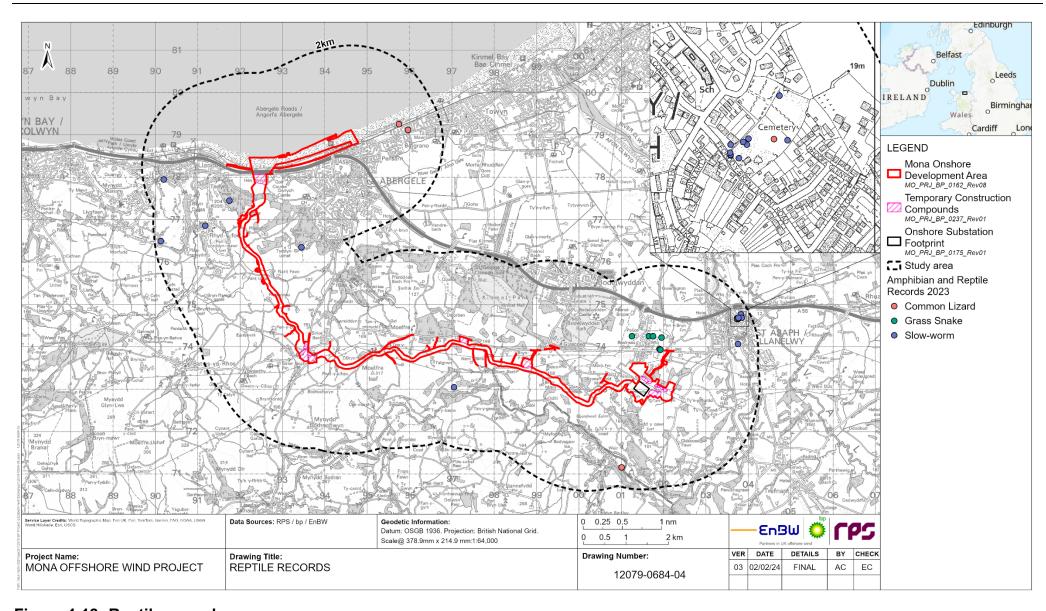


Figure 1.18: Reptile records.

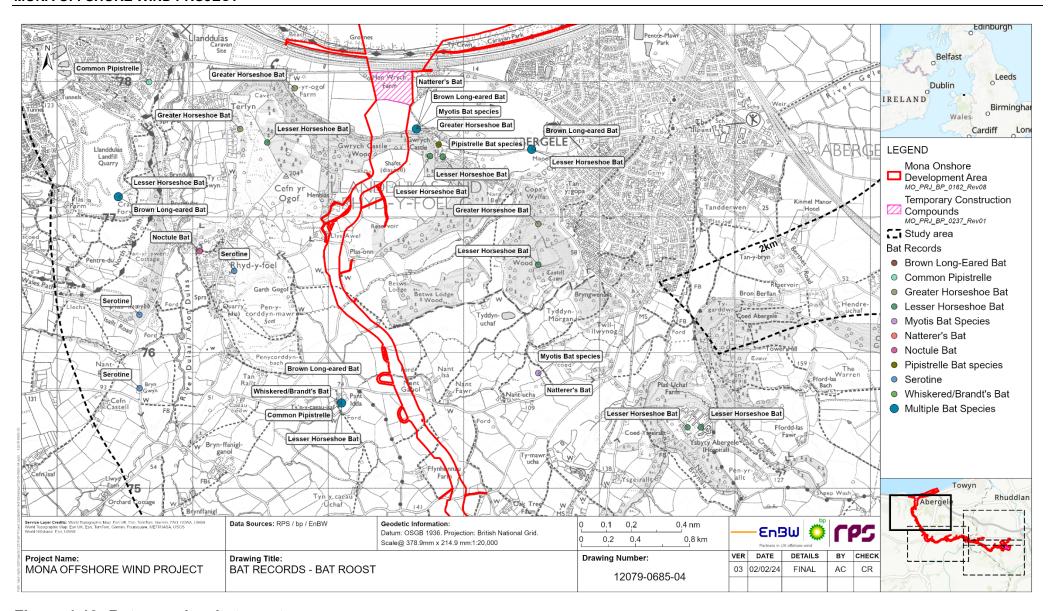


Figure 1.19: Bat records – bat roost.



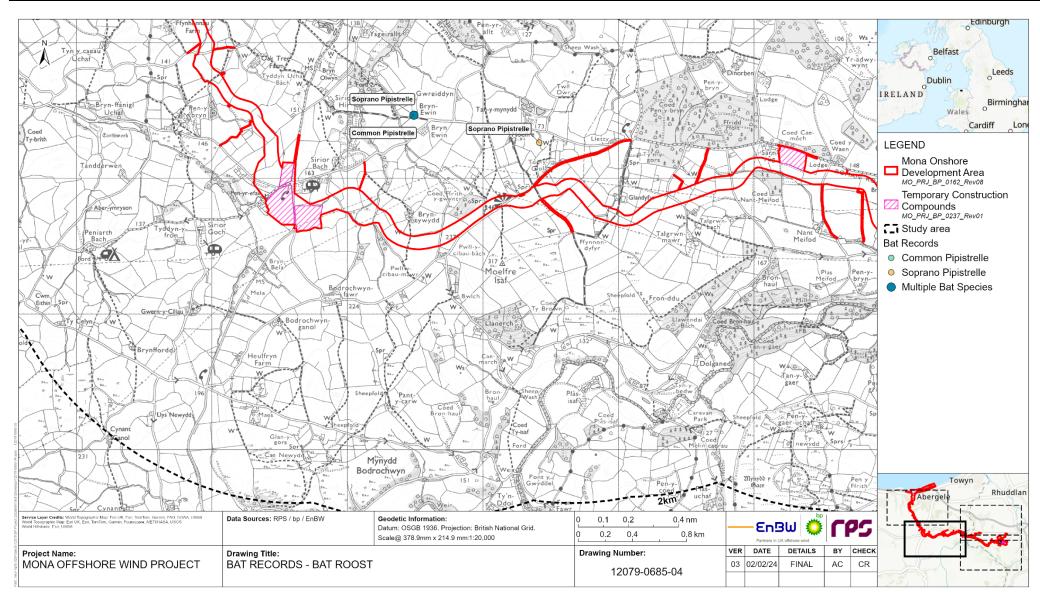


Figure 1.20: Bat records - bat roost.

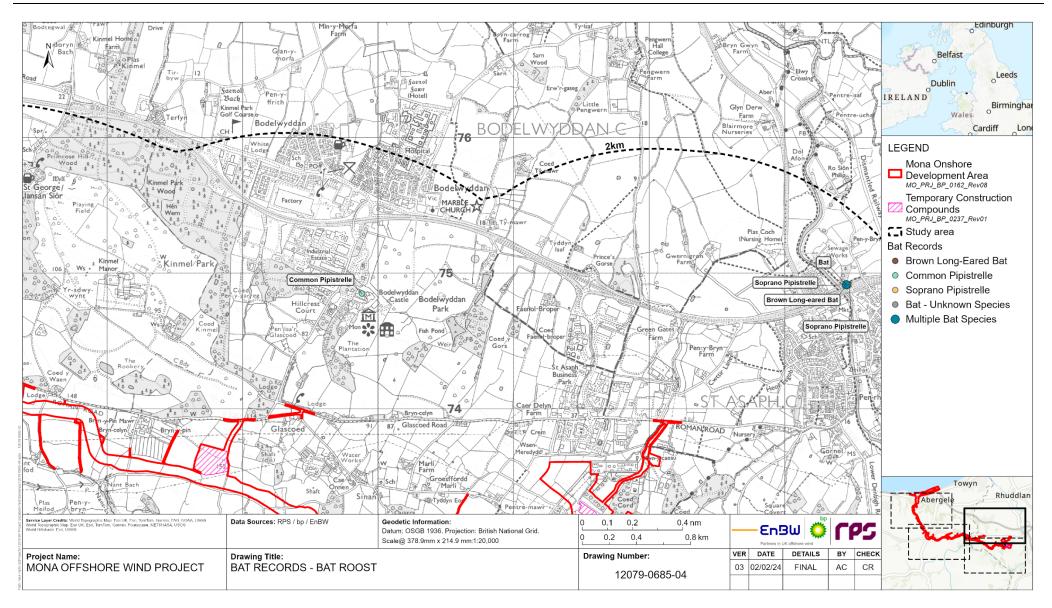


Figure 1.21: Bat records – bat roost.



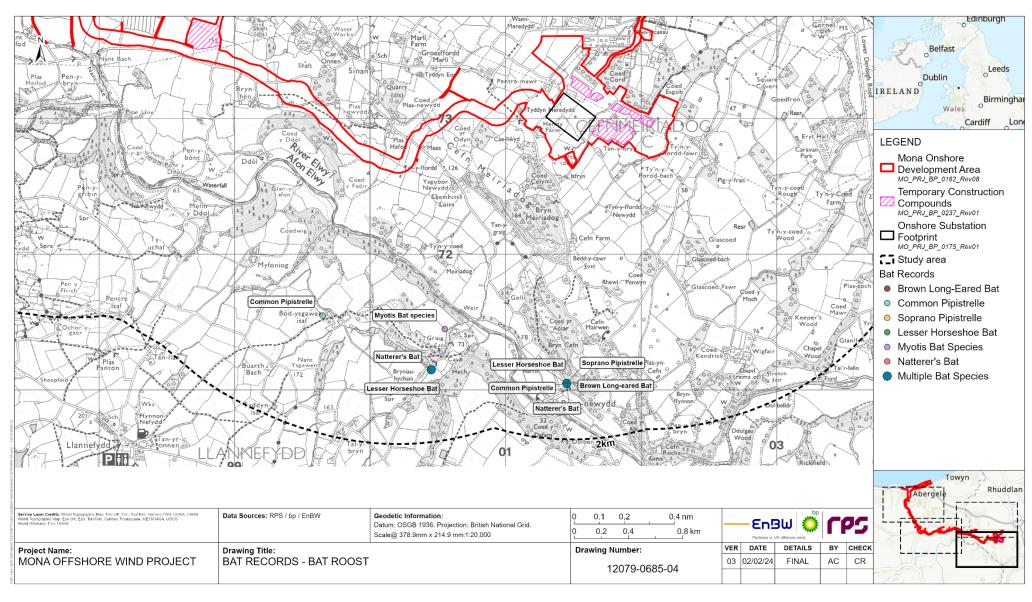


Figure 1.22: Bat records - bat roost.

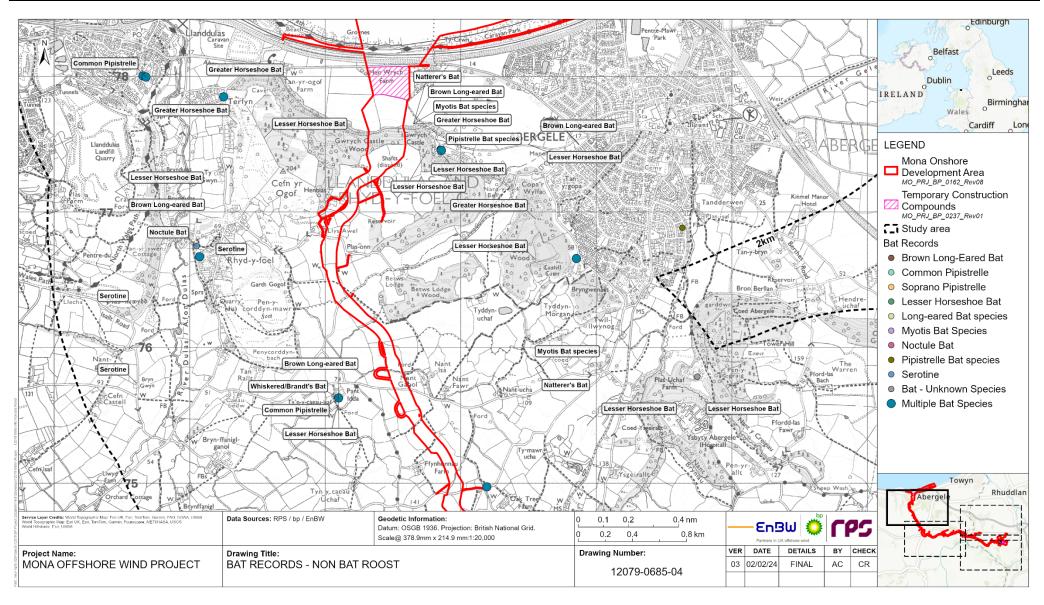


Figure 1.23: Bat records – non bat roost.



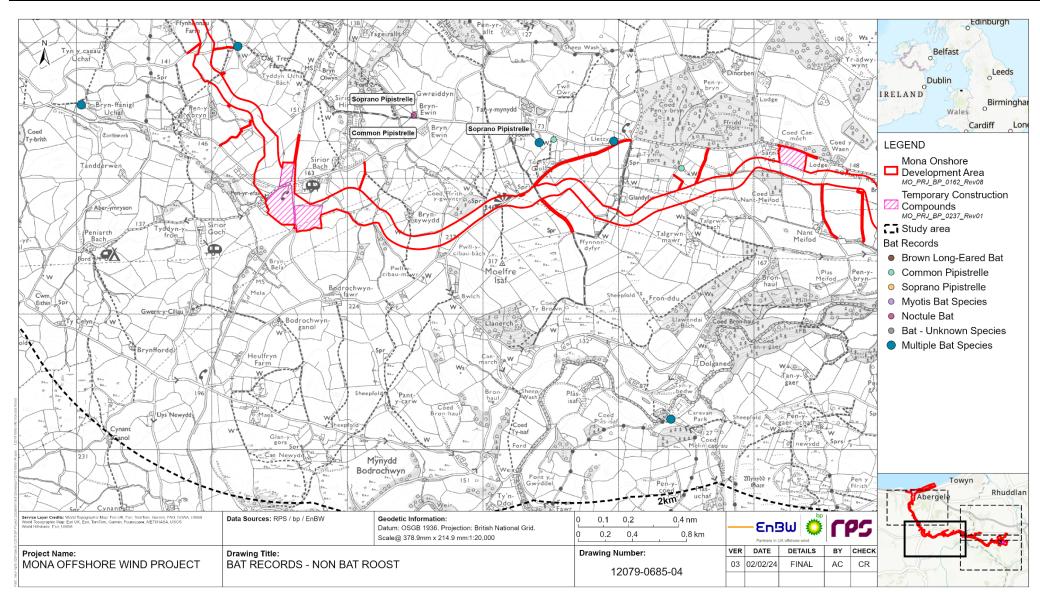


Figure 1.24: Bat records – non bat roost.

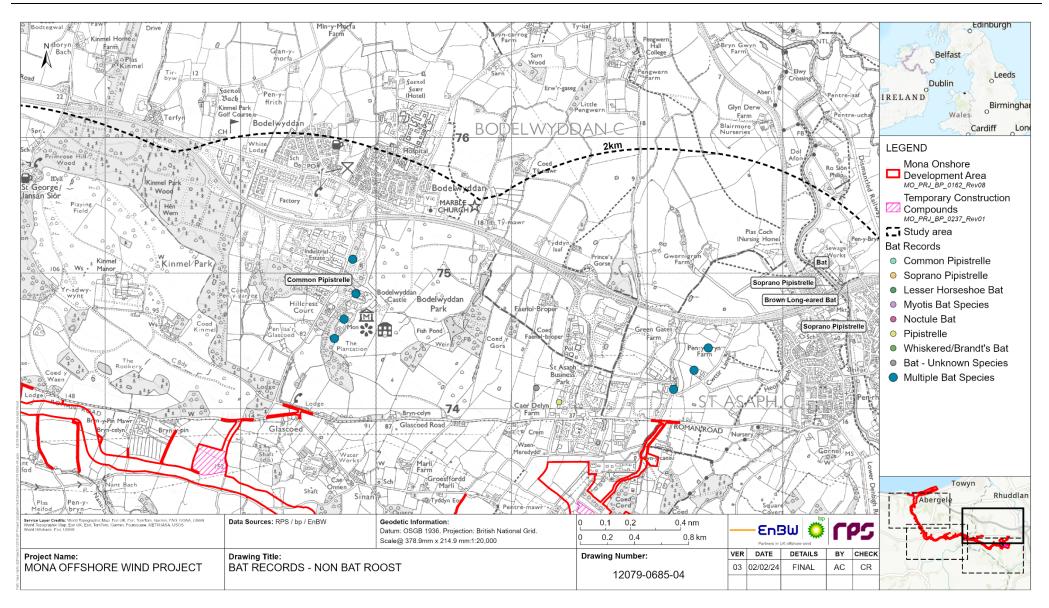


Figure 1.25: Bat records – non bat roost.



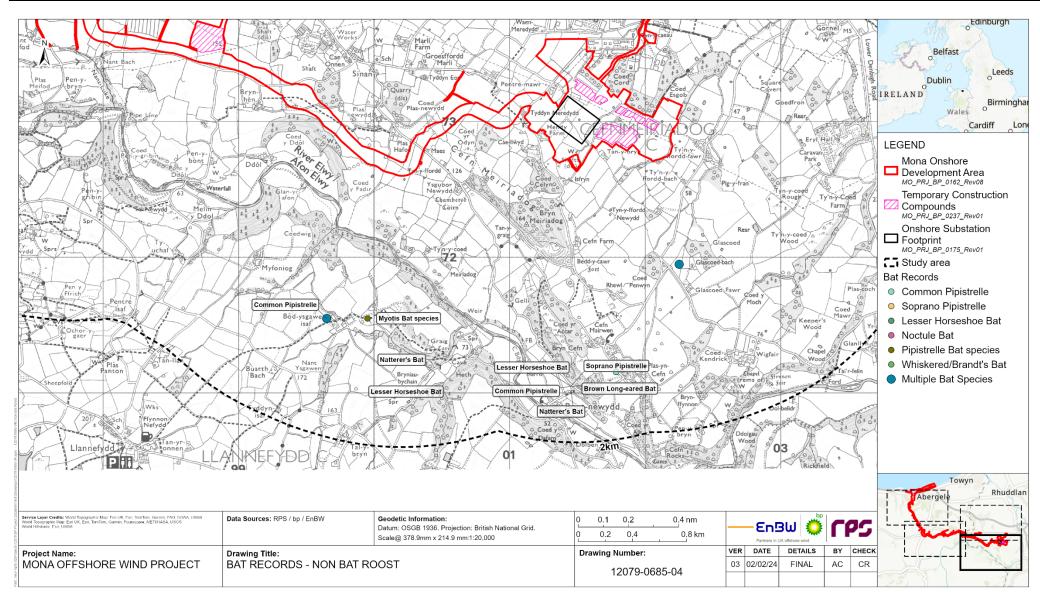


Figure 1.26: Bat records – non bat roost.



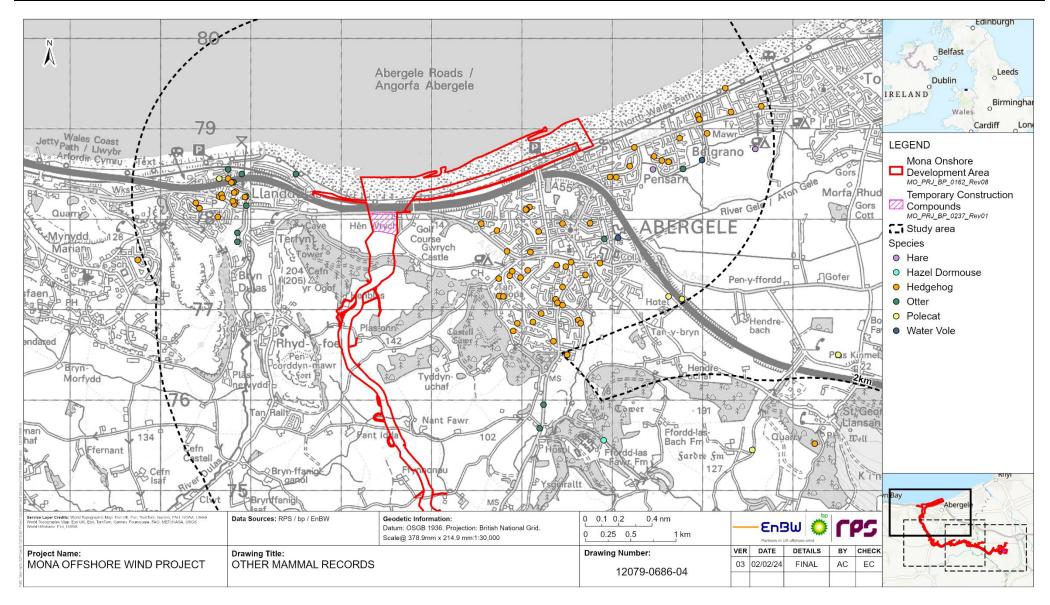


Figure 1.27: Other mammal records.



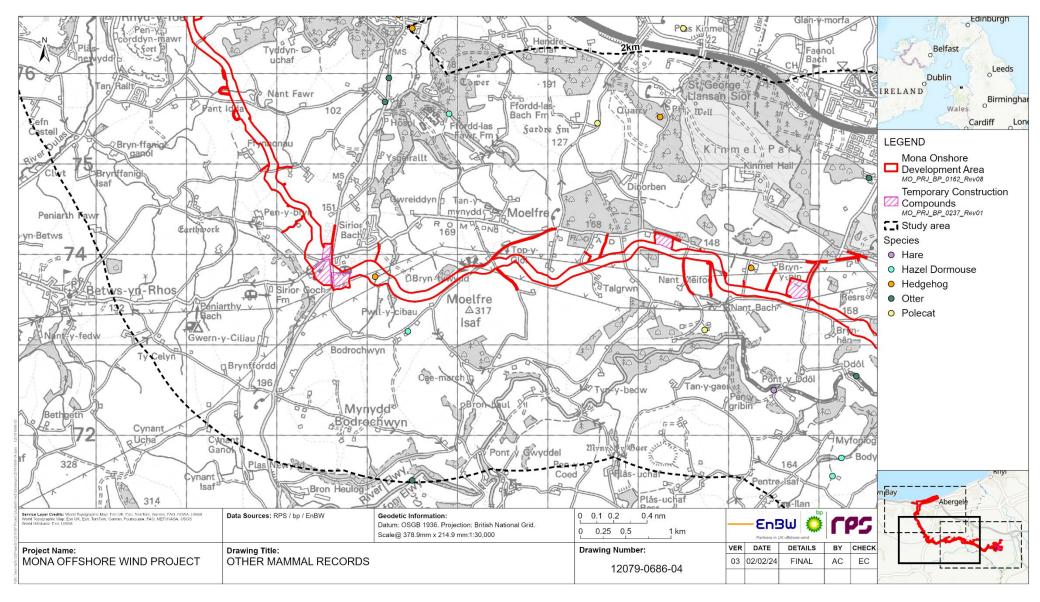


Figure 1.28: Other mammal records.



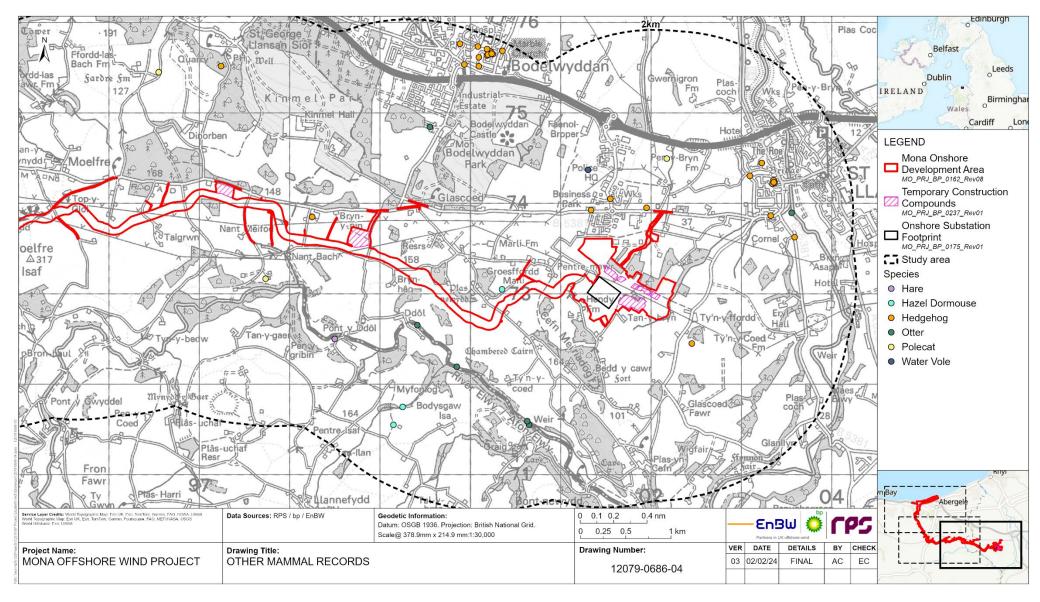


Figure 1.29: Other mammal records.



# 1.5 Summary and conclusions

# 1.5.1 Designated sites

- 1.5.1.1 The onshore ecology desk study identified 11 internationally designated sites within 20 km, 6 nationally designated sites within 5 km and 72 non-statutory designated sites within 2 km of the Mona Onshore Development Area. No locally important statutory designated sites were present within 2 km. Of the designated sites identified, one SPA, two SSSIs and two LWS are located within the Mona Onshore Development Area.
- 1.5.1.2 The onshore ecology desk study identified 353 ancient woodlands and 66 traditional orchards within 2 km of the Mona Onshore Development Area. Of these 12 ancient woodlands are within the Mona Onshore Development Area. There are no traditional orchards within the Mona Onshore Development Area.
- 1.5.1.3 Other habitats of principal importance were also identified within 2 km of the Mona Onshore Development Area including: wood pasture and parkland, lowland calcareous grassland, lowland heath, lowland dry acid grassland, grazing marsh, lowland fens and reedbeds and coastal vegetated shingle.

# 1.5.2 Protected and other notable species

- 1.5.2.1 The onshore ecology desk study confirmed the presence of a number of protected species within Mona Onshore Development Area.
- 1.5.2.2 Ten flora species were identified, comprising 164 records that are of national importance, including Bluebell which is protected under WCA8. Two protected terrestrial invertebrate species were recorded within the Mona Onshore Development Area, White-letter Hairstreak *Satyrium w-album* and Silver-studded Blue *Plebejus argus*. Both species are protected under the WCA5. 19 terrestrial invertebrate species of national importance were recorded within the desk study area.
- 1.5.2.3 31 records of GCN were recorded within 2 km of the Mona Onshore Development Area. Two records were within the Mona Onshore Development Area. Other amphibians including common frog, common toa, smooth newt and palmate newt were all recorded within the Mona Onshore Development Area. Three species of reptiles were identified within 2 km of the Mona Onshore Development Area. A large population of grass snake and slow worm near the proposed Onshore Substation.
- 1.5.2.4 124 historical records of bats including 46 bat roosts were recorded within 2 km of the Mona Onshore Development Area. Other mammals included hedgehogs, otter, badgers, and hazel dormouse. Badgers and otters were both recorded within the Mona Onshore Development Area.



## 1.6 References

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# A.1. Summary of protected and notable species records within 2 km of Mona Onshore Development Area.

# A.1.1 Plants and lichens

Table A. 1 Plants and lichens.

Group	Scientific Name	Common Name	Number and date of records	Conservation Status
Flowering Plant	Acer campestre	Field Maple	12 records from 2010 to 2019	LI-48[LS], LI-49[LS], LI-VP- 48[LS], LI-VP-49[LS]
Flowering Plant	Aethusa cynapium	Fool's Parsley	3 records from 2013 to 2015	LI-48[LR], LI-VP-48[LR]
Flowering Plant	Agrimonia procera	Fragrant Agrimony	1 record from 2018 to 2018	LBAP-G, LI-48[LS], LI- 49[LR], LI-50[LR], LI-51[LS], LI-VP-48[LS], LI-VP-49[LR], LI-VP-50[LS], LI-VP-51[LR]
Flowering Plant	Agrostis gigantea	Black Bent	2 records from 2014 to 2016	GBNNSIP, LI-48[LS], LI-VP- 48[LS], LI-VP-50[LNS]
Flowering Plant	Allium ampeloprasum	Wild Leek	9 records from 2011 to 2021	GBNNSIP, LBAP-C, LI- 50[LS], LI-52[LR], LI-VP- 49[LE], LI-VP-50[LS], LI-VP- 52[LR], RDB-NS, WRL- VP[VU]
Flowering Plant	Allium vineale	Wild Onion	2 records from 2015 to 2015	LI-48[LR], LI-51[LS], LI-VP- 48[LR], LI-VP-50[LNS]
Moss	Aloina aloides	Common Aloe-moss	1 record from 2019 to 2019	LBAP-C, LBAP-F, LI-48[LR], LI-BR-48[LR]
Flowering Plant	Ammophila arenaria	Marram	8 records from 2014 to 2021	LI-50[LR], LI-VP-50[LS], LI- VP-51[LS]



Group	Scientific Name	Common Name	Number and date of records	Conservation Status
Flowering Plant	Anacamptis morio	Green-winged Orchid	4 records from 2011 to 2021	CITES-B, LBAP-A, LBAP-C, LBAP-F, LBAP-G, LI-48[LR], LI-49[LS], LI-50[LR], LI- 51[LS], LI-52[LS], LI-VP- 48[LR], LI-VP-49[LS], LI-VP- 50[LS], LI-VP-51[LS], LI-VP- 52[LS], RL-NT
Flowering Plant	Anacamptis pyramidalis	Pyramidal Orchid	30 records from 2014 to 2022	LI-48[LS], LI-VP-48[LS], LI- VP-50[LNS]
Moss	Anomodon viticulosus	Rambling Tail-moss	15 records from 2012 to 2020	LI-48[LR], LI-BR-48[LR]
Flowering Plant	Anthriscus caucalis	Bur Chervil	2 records from 2015 to 2015	LI-49[LS], LI-50, LI-52[LR], LI-VP-49[LS], LI-VP-50[LR], LI-VP-51[LR], LI-VP-52[LS]
Flowering Plant	Anthyllis vulneraria	Kidney Vetch	9 records from 2015 to 2021	LI-48[LS], LI-VP-48[LS], LI- VP-50[LNS]
Flowering Plant	Aphanes australis	Slender Parsley-piert	2 records from 2021 to 2021	LI-51[LR], LI-VP-51[LS]
Flowering Plant	Apium graveolens	Wild Celery	2 records from 2020 to 2020	LI-48[LS], LI-49[LR], LI-50, LI-52[LS], LI-VP-48[LS], LI- VP-49[LR], LI-VP-50[LS], LI- VP-51[LS], LI-VP-52[LR]
Flowering Plant	Arabis hirsuta	Hairy Rock-cress	3 records from 2011 to 2022	LI-48[LR], LI-52[LS], LI-VP- 48[LR], LI-VP-50[LNS], LI- VP-51[LR], LI-VP-52[LS]
Flowering Plant	Arctium lappa	Greater Burdock	1 record from 2017 to 2017	GBNNSIP, LI-51[LR], LI-VP-50[LNS], LI-VP-51[LS]
Flowering Plant	Artemisia absinthium	Wormwood	3 records from 2015 to 2021	GBNNSIP, LI-48[LS], LI-VP-48[LS], LI-VP-50[LNS]



Group	Scientific Name	Common Name	Number and date of records	Conservation Status
Flowering Plant	Arum italicum	Italian Lords-and-Ladies	2 records from 2012 to 2017	LBAP-D
Flowering Plant	Asparagus		1 record from 2021 to 2021	LI-51[LS]
Flowering Plant	Aster tripolium	Sea Aster	1 record from 2015 to 2015	LI-50[LS]
Flowering Plant	Atriplex glabriuscula	Babington's Orache	4 records from 2015 to 2020	LI-48[LR], LI-50[LR], LI- 51[LR], LI-VP-48[LR], LI-VP- 50[LS], LI-VP-51[LR]
Flowering Plant	Atriplex littoralis	Grass-leaved Orache	1 record from 2015 to 2015	LBAP-C, LBAP-G, LI-48[LR], LI-49[LR], LI-VP-48[LR], LI- VP-49[LR], LI-VP-50[LNS]
Flowering Plant	Atriplex prostrata x glabriuscula		3 records from 2015 to 2022	LI-50, LI-VP-50[LR]
Flowering Plant	Avena fatua	Wild-oat	2 records from 2015 to 2019	GBNNSIP, LI-49[LR], LI-VP- 49[LR]
Flowering Plant	Barbarea vulgaris	Winter-cress	6 records from 2011 to 2017	LI-48[LS], LI-VP-48[LS]
Flowering Plant	Beta vulgaris subsp. maritima	Sea Beet	15 records from 2014 to 2021	LI-48[LS], LI-VP-48[LS], LI- VP-50[LNS]
Flowering Plant	Blackstonia perfoliata	Yellow-wort	14 records from 2014 to 2021	LBAP-G, LI-48[LR], LI- 49[LS], LI-52[LS], LI-VP- 48[LR], LI-VP-49[LS], LI-VP- 52[LS]
Flowering Plant	Bolboschoenus maritimus	Sea Club-rush	2 records from 2017 to 2021	LI-50[LS], LI-VP-50[LNS]
Flowering Plant	Brassica nigra	Black Mustard	4 records from 2014 to 2017	LI-48[LR], LI-VP-48[LR], LI- VP-50[LNS]



Group	Scientific Name	Common Name	Number and date of records	Conservation Status
Flowering Plant	Brassica oleracea	Wild Cabbage	3 records from 2012 to 2020	LBAP-A, LBAP-C, LI-49[LS], LI-50[LR], LI-52[LS], LI-VP- 49[LS], LI-VP-50[LS], LI-VP- 51[LR], LI-VP-52, RDB-NS
Flowering Plant	Bromopsis erecta	Upright Brome	1 record from 2022 to 2022	LBAP-C, LI-49[LR], LI-50[LS], LI-51[LS], LI-52[LR], LI-VP-49[LR], LI-VP-50[LS], LI-VP-52[LR]
Flowering Plant	Bromopsis ramosa	Hairy-brome	31 record from 2013 to 2021	LI-48[LS], LI-VP-48[LS]
Flowering Plant	Bromus racemosus	Smooth Brome	1 record from 2016 to 2016	LBAP-G, LI-49[LR], LI-50[LR], LI-51[LR], LI-52[LR], LI-VP-49[LR], LI-VP-50[LS], LI-VP-51[LR], LI-VP-52[LR]
Moss	Bryum argenteum	Silver-moss	5 records from 2012 to 2019	LBAP-C
Flowering Plant	Butomus umbellatus	Flowering-rush	2 records from 2012 to 2015	LBAP-C, LI-51[LR], LI-VP- 49[LE], LI-VP-50[LS], LI-VP- 51[LR], WRL-VP[VU]
Flowering Plant	Buxus sempervirens	Box	2 records from 2019 to 2022	LBAP-C, RDB-NR, RL-DD
Flowering Plant	Cakile maritima	Sea Rocket	1 record from 2014 to 2014	LI-50[LR], LI-51[LS], LI-VP- 50[LS], LI-VP-51[LS]
Flowering Plant	Callitriche brutia	Pedunculate Water-starwort	1 record from 2018 to 2018	LI-49[LS], LI-50, LI-51[LR], LI-52[LR], LI-VP-49[LS], LI- VP-51[LS]
Flowering Plant	Carduus nutans	Musk Thistle	8 records from 2014 to 2019	LI-48[LS], LI-49[LS], LI- 52[LS], LI-VP-48[LS], LI-VP- 49[LS]



Group	Scientific Name	Common Name	Number and date of records	Conservation Status
Flowering Plant	Carduus tenuiflorus	Slender Thistle	4 records from 2015 to 2021	LI-48[LR], LI-50[LR], LI-VP- 48[LR], LI-VP-50[LS], LI-VP- 51[LS]
Flowering Plant	Carex acutiformis	Lesser Pond-sedge	2 records from 2014 to 2015	LBAP-G, LI-49[LS], LI-VP- 49[LS], LI-VP-50[LNS]
Flowering Plant	Carex arenaria	Sand Sedge	3 records from 2014 to 2015	LBAP-C, LI-50[LS], LI-VP- 50[LS], LI-VP-51[LS]
Flowering Plant	Carex divulsa subsp. divulsa	Grey Sedge	4 records from 2019 to 2023	LBAP-G, LI-49[LR], LI-VP- 48[LE], LI-VP-49[LR]
Flowering Plant	Carex divulsa subsp. leersii	Many-leaved Sedge	2 records from 2015 to 2019	LI-49[LS], LI-50[LS], LI-VP- 49[LS], LI-VP-50[LS]
Flowering Plant	Carex pseudocyperus	Cyperus Sedge	1 record from 2016 to 2016	LBAP-G, LI-48[LR], LI- 49[LR], LI-52[LR], LI-VP- 48[LR], LI-VP-49[LR], LI-VP- 51[LS], LI-VP-52[LS], WRL- VP[NT]
Flowering Plant	Carex riparia	Greater Pond-sedge	2 records from 2015 to 2021	LBAP-G, LI-48[LS], LI- 49[LS], LI-50[LS], LI-VP- 48[LS], LI-VP-49[LS], LI-VP- 50[LNS], LI-VP-51[LS]
Flowering Plant	Carex spicata	Spiked Sedge	11 records from 2012 to 2021	LBAP-G, LI-48[LR], LI- 49[LS], LI-VP-48[LR], LI-VP- 49[LS], LI-VP-52[PX]
Flowering Plant	Catapodium marinum	Sea Fern-grass	2 records from 2015 to 2021	LBAP-C, LI-48[LS], LI- 51[LR], LI-VP-48[LS], LI-VP- 50[LS], LI-VP-51[LS]



Group	Scientific Name	Common Name	Number and date of records	Conservation Status
Flowering Plant	Centunculus minimus	Chaffweed	1 record from 2013 to 2013	LBAP-G, LI-48[LS], LI- 49[LR], LI-50[LR], LI-VP- 48[LS], LI-VP-49[LR], LI-VP- 50[LR], LI-VP-51[LS], RL-NT, WRL-VP[VU]
Flowering Plant	Cerastium pumilum	Dwarf Mouse-ear	4 records from 2015 to 2021	LBAP-C, LI-49[LS], LI- 50[LR], LI-VP-49[LS], LI-VP- 50[LR], LI-VP-51[LR], RDB- NS, RL-NT, WRL-VP[NT]
Flowering Plant	Cerastium semidecandrum	Little Mouse-ear	5 records from 2011 to 2021	LI-50[LS], LI-51[LS], LI-VP- 50[LNS]
Fern	Ceterach officinarum	Rustyback	1 record from 2018 to 2018	LI-50[LS], LI-51[LS], LI-VP- 51[LS]
Flowering Plant	Chenopodium bonus-henricus	Good-King-Henry	1 record from 2019 to 2019	GBNNSIP, LBAP-G, LI- 48[LS], LI-49[LS], LI-50[LR], LI-52[LR], LI-VP-48[LS], LI- VP-49[LS], LI-VP-50[LS], LI- VP-51[LS], RL-VU
Flowering Plant	Chenopodium ficifolium	Fig-leaved Goosefoot	1 record from 2019 to 2019	GBNNSIP, LBAP-G, LI- 49[LR], LI-50[LS], LI-VP- 49[LR]
Flowering Plant	Chenopodium rubrum	Red Goosefoot	3 records from 2014 to 2018	LBAP-G, LI-49[LS], LI- 51[LS], LI-52[LS], LI-VP- 49[LS]
Flowering Plant	Cichorium intybus	Chicory	11 records from 2012 to 2021	GBNNSIP, LI-49[LR], LI-50[LS], LI-51[LS], LI-VP-49[LR], LI-VP-50[LNS], LI-VP-51[LS]
Lichen	Cladonia rangiferina	Reindeer Moss	1 record from 2015 to 2015	HDir5, WRL-LI[NT]



Group	Scientific Name	Common Name	Number and date of records	Conservation Status
Alga	Cladophora glomerata		1 record from 2016 to 2016	RL-NT
Flowering Plant	Clinopodium vulgare	Wild Basil	12 records from 2011 to 2022	LI-48[LS], LI-VP-48[LS]
Flowering Plant	Cornus sanguinea	Dogwood	8 records from 2011 to 2021	LI-52[LS]
Flowering Plant	Cornus sanguinea subsp. sanguinea		4 records from 2014 to 2017	LI-52[LS]
Flowering Plant	Crambe maritima	Sea-kale	13 records from 2014 to 2021	LBAP-A, LBAP-C, LI-48[LR], LI-49[LS], LI-50[LS], LI- 51[LR], LI-VP-48[LR], LI-VP- 49[LS], LI-VP-50[LS], LI-VP- 51[LR]
Flowering Plant	Crepis biennis	Rough Hawk's-beard	1 record from 2021 to 2021	LBAP-C, LI-50[LS], LI-VP- 50[LS], WRL-VP[DD]
Flowering Plant	Crithmum maritimum	Rock Samphire	13 records from 2015 to 2021	LI-48[LS], LI-50[LR], LI- 51[LR], LI-VP-48[LS], LI-VP- 50[LS], LI-VP-51[LS]
Flowering Plant	Cruciata laevipes	Crosswort	38 records from 2010 to 2023	LBAP-G, LI-49[LS], LI- 52[LS], LI-VP-49[LS], LI-VP- 52[LS]
Moss	Ctenidium molluscum	Chalk Comb-moss	7 records from 2019 to 2019	LBAP-C, LI-BR-48[LR]
Flowering Plant	Dactylorhiza fuchsii x praetermissa = D. x grandis		1 record from 2022 to 2022	LI-50[LR], LI-VP-50[LS]
Flowering Plant	Dactylorhiza praetermissa	Southern Marsh-orchid	6 records from 2015 to 2022	LBAP-G, LI-48[LR], LI- 49[LR], LI-50[LR], LI-VP- 48[LR], LI-VP-49[LR], LI-VP- 50[LS], LI-VP-51[LS], LI-VP- 52[LR]



Group	Scientific Name	Common Name	Number and date of records	Conservation Status
Flowering Plant	Daphne laureola	Spurge-laurel	20 records from 2011 to 2022	LBAP-G, LI-49[LS], LI- 52[LS], LI-VP-49[LS], LI-VP- 50[LNS]
Moss	Didymodon vinealis	Soft-tufted Beard-moss	1 record from 2020 to 2020	LI-48[LR], LI-BR-48[LR]
Flowering Plant	Dipsacus fullonum	Wild Teasel	19 records from 2011 to 2021	LI-48[LR], LI-VP-48[LR]
Fern	Dryopteris cambrensis		2 records from 2020 to 2020	LI-50[LR], LI-VP-50[LS]
Fern	Dryopteris carthusiana	Narrow Buckler-fern	1 record from 2019 to 2019	LI-51[LS], LI-52[LS], LI-VP- 51[LS]
Flowering Plant	Echium vulgare	Viper's-bugloss	1 record from 2021 to 2021	LBAP-G, LI-48[LS], LI- 49[LS], LI-50[LS], LI-51[LS], LI-52[LS], LI-VP-48[LS], LI- VP-49[LS], LI-VP-50[LNS], LI-VP-51[LS], LI-VP-52[LS]
Flowering Plant	Elymus caninus	Bearded Couch	11 records from 2013 to 2019	LI-52[LS], LI-VP-52[LR]
Flowering Plant	Elytrigia juncea	Sand Couch	5 records from 2014 to 2021	LBAP-C, LI-50[LR], LI-VP- 50[LS], LI-VP-51[LR]
Flowering Plant	Epilobium roseum	Pale Willowherb	3 records from 2015 to 2019	LBAP-G, LI-49[LR], LI-VP- 49[LR], LI-VP-50[LNS], LI- VP-51[LR]
Flowering Plant	Epilobium tetragonum	Square-stalked Willowherb	2 records from 2017 to 2019	LI-48[LR], LI-49[LR], LI-VP- 48[LR], LI-VP-49[LR], LI-VP- 50[LNS]
Flowering Plant	Epipactis helleborine	Broad-leaved Helleborine	9 records from 2010 to 2021	LBAP-G, LI-48[LS], LI- 49[LS], LI-52[LR], LI-VP- 48[LS], LI-VP-49[LS], LI-VP- 52[LS]



Group	Scientific Name	Common Name	Number and date of records	Conservation Status
Horsetail	Equisetum telmateia	Great Horsetail	21 records from 2011 to 2021	LI-48[LS], LI-VP-48[LS]
Flowering Plant	Erica vagans	Cornish Heath	1 record from 2022 to 2022	LI-50[LR], RDB-NR, RL-NT
Flowering Plant	Erigeron acris	Blue Fleabane	9 records from 2015 to 2021	LBAP-G, LI-48[LR], LI- 49[LS], LI-52[LS], LI-VP- 48[LR], LI-VP-49[LS], LI-VP- 50[LNS]
Flowering Plant	Erodium maritimum	Sea Stork's-bill	2 records from 2019 to 2022	LBAP-A, LI-48[LR], LI- 51[LR], LI-52[LS], LI-VP- 48[LR], LI-VP-50[LR], LI-VP- 51[LS]
Flowering Plant	Erodium moschatum	Musk Stork's-bill	3 records from 2017 to 2022	GBNNSIP, LBAP-A, LI- 49[LS], LI-50[LR], LI-52[LR], LI-VP-49[LS], LI-VP-50[LS], LI-VP-51[LS], LI-VP-52[LS]
Flowering Plant	Eryngium maritimum	Sea-holly	12 records from 2014 to 2021	LI-50[LR], LI-51[LR], LI-VP- 50[LS], LI-VP-51[LS]
Moss	Eucladium verticillatum	Whorled Tufa-moss	2 records from 2016 to 2016	LI-48[EX], LI-BR-48[EX]
Flowering Plant	Euphorbia amygdaloides subsp. robbiae		2 records from 2020 to 2020	CITES-B, GBNNSIP, LI- 50[LR], LI-51[LS]
Flowering Plant	Euphorbia lathyris	Caper Spurge	5 records from 2017 to 2022	CITES-B, GBNNSIP, LBAP- G, LI-49[LS], LI-51[LR], LI- VP-49[LS]
Flowering Plant	Euphorbia paralias	Sea Spurge	4 records from 2014 to 2020	CITES-B, LBAP-C, LI-50[LR], LI-51[LS], LI-VP-50[LS], LI- VP-51[LS]
Flowering Plant	Euphrasia arctica		2 records from 2019 to 2021	LI-VP-48[LS], LI-VP-50[LNS], LI-VP-52, RL-NT



Group	Scientific Name	Common Name	Number and date of records	Conservation Status
Flowering Plant	Fallopia convolvulus	Black-bindweed	2 records from 2010 to 2014	GBNNSIP, LI-48[LS], LI-VP- 48[LS]
Flowering Plant	Festuca rubra subsp. juncea		1 record from 2021 to 2021	LBAP-G, LI-49[LS], LI-VP- 49[LS]
Flowering Plant	Filago minima	Small Cudweed	2 records from 2021 to 2021	LBAP-C, LBAP-D, LI-48[LR], LI-49[LS], LI-50[LR], LI- 51[LR], LI-52[LS], LI-VP- 48[LR], LI-VP-49[LS], LI-VP- 50[LS], LI-VP-52[LS]
Moss	Fissidens exilis	Slender Pocket-moss	1 record from 2019 to 2019	LI-50[LR], LI-51[EX], LI- 52[LR]
Flowering Plant	Fumaria bastardii	Tall Ramping-fumitory	8 records from 2015 to 2020	LI-48[LS], LI-VP-48[LS]
Flowering Plant	Galeopsis bifida	Bifid Hemp-nettle	1 record from 2014 to 2014	LI-51[LR], LI-VP-51[LR]
Flowering Plant	Galium mollugo subsp. erectum	Upright Hedge Bedstraw	4 records from 2010 to 2021	LI-48[LS], LI-52[LS], LI-VP- 48[LS]
Flowering Plant	Gentianella amarella	Autumn Gentian	1 record from 2016 to 2016	LBAP-D, LI-49[LR], LI-50[LS], LI-VP-49[LR], LI-VP-50[LNS], LI-VP-51[LS], LI-VP-52
Flowering Plant	Geranium columbinum	Long-stalked Crane's-bill	4 records from 2011 to 2021	LBAP-G, LI-48[LR], LI- 49[LS], LI-51[LR], LI-VP- 48[LR], LI-VP-49[LS], LI-VP- 50[LNS], LI-VP-51[LR]
Flowering Plant	Geranium pusillum	Small-flowered Crane's-bill	7 records from 2014 to 2022	LBAP-G, LI-48[LR], LI- 49[LS], LI-51[LS], LI-52[LS], LI-VP-48[LR], LI-VP-49[LS], LI-VP-52[LS]



Group	Scientific Name	Common Name	Number and date of records	Conservation Status
Flowering Plant	Geranium sanguineum	Bloody Crane's-bill	6 records from 2011 to 2022	LI-48[LR], LI-50[LR], LI-VP- 48[LR], LI-VP-50[LS], LI-VP- 51[LS]
Flowering Plant	Glaucium flavum	Yellow Horned-poppy	15 records from 2015 to 2022	LI-48[LS], LI-50[LR], LI- 51[LR], LI-52[LS], LI-VP- 48[LS], LI-VP-50[LS], LI-VP- 51[LR], LI-VP-52[LS]
Flowering Plant	Glebionis segetum	Corn Marigold	1 record from 2014 to 2014	GBNNSIP, LBAP-G, LI- 48[LR], LI-49[LR], LI-50[LR], LI-52[LS], LI-VP-48[LR], LI- VP-49[LR], LI-VP-50[LS], LI- VP-51[LS], LI-VP-52[LS], RL- VU
Flowering Plant	Glyceria notata	Plicate Sweet-grass	4 records from 2015 to 2020	LBAP-G, LI-48[LR], LI- 49[LS], LI-VP-48[LR], LI-VP- 49[LS], LI-VP-50[LNS]
Flowering Plant	Helianthemum nummularium	Common Rock-rose	17 records from 2010 to 2022	LBAP-G, LI-48[LR], LI- 49[LS], LI-VP-48[LR], LI-VP- 49[LS], LI-VP-50[LNS]
Flowering Plant	Helianthemum oelandicum	Hoary Rock-rose	7 records from 2012 to 2022	LBAP-A, LBAP-C, LBAP-F, LI-50[LR], LI-52[LR], LI-VP- 49[LS], LI-VP-50[LS], LI-VP- 51[LS], LI-VP-52
Flowering Plant	Helianthemum oelandicum subsp. incanum		4 records from 2021 to 2021	LI-49[LS], LI-51[LS], LI-VP- 49[LS], LI-VP-50[LS], LI-VP- 51[LS], LI-VP-52[LR], RDB- NS
Flowering Plant	Helictotrichon pratense	Meadow Oat-grass	2 records from 2021 to 2021	LI-49[LS], LI-50[LS], LI- 51[LR], LI-52[LR], LI-VP- 49[LS], LI-VP-50[LS], LI-VP- 51[LS], LI-VP-52[LR]



Group	Scientific Name	Common Name	Number and date of records	Conservation Status
Flowering Plant	Helictotrichon pubescens	Downy Oat-grass	4 records from 2019 to 2022	LI-50[LS], LI-VP-50[LNS]
Flowering Plant	Helleborus foetidus	Stinking Hellebore	18 records from 2010 to 2022	LBAP-C, LBAP-D, LI-51[LS], LI-52[LS], LI-VP-51[LS], RDB-NS
Flowering Plant	Hieracium hypochaeroides	Cat's-ear Hawkweed	1 record from 2021 to 2021	LI-50[LS]
Flowering Plant	Hieracium sabaudum	Autumn Hawkweed	1 record from 2021 to 2021	LI-50[LR], LI-VP-50[LS]
Flowering Plant	Hippophae rhamnoides	Sea-buckthorn	7 records from 2015 to 2020	INNS, LBAP-C, RDB-NS
Moss	Homalothecium lutescens	Yellow Feather-moss	4 records from 2017 to 2019	LI-48[LR], LI-BR-48[LR]
Flowering Plant	Honckenya peploides	Sea Sandwort	8 records from 2014 to 2021	LI-50[LR], LI-51[LS], LI-VP- 50[LS], LI-VP-51[LR]
Moss	Hookeria lucens	Shining Hookeria	1 record from 2019 to 2019	LBAP-C
Flowering Plant	Hordeum secalinum	Meadow Barley	3 records from 2015 to 2019	LBAP-G, LI-49[LS], LI-VP- 49[LS], LI-VP-51[LS]
Flowering Plant	Hyacinthoides non-scripta	Bluebell	47 records from 2010 to 2023	LBAP-A, LBAP-C, LBAP-E, LBAP-F, LBAP-T, WCA8
Moss	Hygroamblystegium fluviatile	Brook-side Feather-moss	2 records from 2019 to 2020	LBAP-C, LI-52[EX]
Flowering Plant	Hypericum hirsutum	Hairy St John's-wort	19 records from 2011 to 2021	LI-48[LR], LI-49[LR], LI-VP- 48[LR], LI-VP-49[LR], LI-VP- 51[LS], LI-VP-52[LR]



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Flowering Plant	Hypericum montanum	Pale St John's-wort	9 records from 2011 to 2022	LBAP-A, LBAP-C, LBAP-D, LI-49[LS], LI-52[LS], LI-VP- 49[LS], LI-VP-50[LNS], LI- VP-51[LS], LI-VP-52[LS], RL- NT
Flowering Plant	Inula conyzae	Ploughman's-spikenard	26 records from 2010 to 2022	LBAP-G, LI-48[LR], LI- 49[LS], LI-VP-48[LR], LI-VP- 49[LS]
Flowering Plant	Inula helenium	Elecampane	1 record from 2019 to 2019	GBNNSIP, LBAP-G, LI- 49[LS], LI-50, LI-51[LR], LI- VP-49[LS], LI-VP-50[LS], LI- VP-51[LR]
Flowering Plant	Iris foetidissima	Stinking Iris	26 records from 2010 to 2023	LI-51[LS]
Flowering Plant	Jacobaea erucifolia	Hoary Ragwort	12 records from 2015 to 2022	LBAP-G, LI-48[LR], LI- 49[LS], LI-52[LS], LI-VP- 48[LR], LI-VP-49[LS], LI-VP- 52[LS]
Flowering Plant	Jasione montana	Sheep's-bit	5 records from 2015 to 2019	LI-VP-51[LR], WRL-VP[NT]
Flowering Plant	Juncus inflexus	Hard Rush	24 records from 2011 to 2020	LI-48[LR], LI-VP-48[LR]
Conifer	Juniperus communis	Juniper	1 record from 2014 to 2014	BAP, LBAP-C, LBAP-D, LI- 50[LR], LI-52[LR], LI-VP- 48[LNS], LI-VP-50[LR], LI- VP-51, LI-VP-52, S7
Flowering Plant	Kickxia elatine	Sharp-leaved Fluellen	3 records from 2016 to 2018	GBNNSIP, LBAP-C, LBAP-G, LI-48[LR], LI-49[LR], LI-50[LR], LI-51[LR], LI-52[LS], LI-VP-48[LR], LI-VP-52[LS]



Group	Scientific Name	Common Name	Number and date of records	Conservation Status
Moss	Kindbergia praelonga	Common Feather-moss	5 records from 2012 to 2018	LBAP-C
Flowering Plant	Knautia arvensis	Field Scabious	2 records from 2016 to 2019	LI-48[LS], LI-VP-48[LS]
Flowering Plant	Koeleria macrantha	Crested Hair-grass	3 records from 2015 to 2019	LI-48[LR], LI-VP-48[LR], LI- VP-50[LS]
Flowering Plant	Lactuca serriola	Prickly Lettuce	8 records from 2014 to 2021	GBNNSIP, LBAP-C, LI- 51[LS]
Flowering Plant	Lactuca virosa	Great Lettuce	4 records from 2021 to 2022	LBAP-C, LI-50[LR], LI-VP- 50[LR]
Flowering Plant	Lamium amplexicaule	Henbit Dead-nettle	1 record from 2014 to 2014	GBNNSIP, LI-48[LR], LI-50[LR], LI-VP-48[LR], LI-VP-50[LS], LI-VP-51[LS]
Flowering Plant	Lathyrus linifolius	Bitter-vetch	6 records from 2011 to 2021	LI-52[LS], LI-VP-52[LS]
Flowering Plant	Lathyrus nissolia	Grass Vetchling	3 records from 2015 to 2021	LI-49[LR], LI-50[LS], LI-VP- 49[LR], LI-VP-51[LS]
Liverwort	Lejeunea lamacerina	Western Pouncewort	2 records from 2019 to 2020	LBAP-C, LI-51[LR]
Flowering Plant	Lemna trisulca	Ivy-leaved Duckweed	1 record from 2016 to 2016	LBAP-G, LI-49[LR], LI-VP- 49[LR]
Flowering Plant	Leontodon hispidus	Rough Hawkbit	1 record from 2015 to 2015	LI-52[LS], LI-VP-52[LS]
Flowering Plant	Lepidium heterophyllum	Smith's Pepperwort	5 records from 2016 to 2020	LI-51[LS], LI-VP-51[LS]
Flowering Plant	Leymus arenarius	Lyme-grass	6 records from 2014 to 2022	LBAP-C, LI-48[LR], LI-50[LR], LI-VP-48[LR], LI-VP-50[LS]



Group	Scientific Name	Common Name	Number and date of records	Conservation Status
Flowering Plant	Linum bienne	Pale Flax	6 records from 2015 to 2022	LI-49[LR], LI-50[LR], LI- 51[LS], LI-52[LS], LI-VP- 49[LR], LI-VP-50[LS], LI-VP- 51[LR], LI-VP-52[LS]
Flowering Plant	Lithospermum officinale	Common Gromwell	2 records from 2010 to 2019	LI-49[LR], LI-50[LS], LI- 51[LR], LI-52[LS], LI-VP- 49[LR], LI-VP-50[LS], LI-VP- 51[LR]
Liverwort	Lophocolea semiteres	Southern Crestwort	1 record from 2019 to 2019	GBNNSIP, LI-48[LR], LI-BR- 48[LR]
Flowering Plant	Lysimachia nummularia	Creeping-Jenny	4 records from 2015 to 2018	LBAP-G, LI-49[LS], LI-VP- 49[LS]
Flowering Plant	Malva arborea	Tree-mallow	1 record from 2015 to 2015	LBAP-C, LBAP-D, LI-50, LI- VP-50[LS], LI-VP-51[LR]
Flowering Plant	Marrubium vulgare	White Horehound	11 records from 2012 to 2022	LBAP-C, LBAP-D, LI-48[LR], LI-49[LS], LI-50[LR], LI-VP- 48[LR], LI-VP-49[LS], LI-VP- 50[LS], LI-VP-52[EX], RDB- NS, WRL-VP[NT]
Flowering Plant	Matricaria chamomilla	Scented Mayweed	8 records from 2010 to 2019	GBNNSIP, LI-48[LS], LI-VP- 48[LS]
Flowering Plant	Meconopsis cambrica	Welsh Poppy	16 records from 2011 to 2023	LBAP-C, LBAP-D, LI-48[LS], LI-49[LS], LI-VP-48[LS], LI- VP-49[LS], RDB-NS
Flowering Plant	Medicago arabica	Spotted Medick	8 records from 2015 to 2021	LBAP-G, LI-49[LS], LI- 50[LR], LI-51[LR], LI-52[LR], LI-VP-48[LE], LI-VP-49[LS], LI-VP-51[LR], LI-VP-52[LS]
Flowering Plant	Melilotus altissimus	Tall Melilot	1 record from 2020 to 2020	GBNNSIP, LBAP-G, LI- 49[LR], LI-VP-49[LR]



Group	Scientific Name	Common Name	Number and date of records	Conservation Status
Flowering Plant	Mentha aquatica	Water Mint	6 records from 2013 to 2016	LBAP-A
Liverwort	Metzgeria pubescens	Downy Veilwort	3 records from 2012 to 2016	LBAP-C, LI-48[LR], LI- 51[LR], LI-BR-48[LR]
Flowering Plant	Milium effusum	Wood Millet	1 record from 2019 to 2019	LBAP-G, LI-48[LS], LI- 49[LS], LI-52[LR], LI-VP- 48[LS], LI-VP-49[LS], LI-VP- 52[LR]
Moss	Mnium stellare	Starry Thyme-moss	2 records from 2016 to 2016	LBAP-C, LI-52[LR]
Flowering Plant	Moenchia erecta	Upright Chickweed	1 record from 2010 to 2010	LBAP-A, LBAP-C, LBAP-D, LI-48[LR], LI-49[LS], LI- 50[LS], LI-52[LR], LI-VP- 48[LR], LI-VP-49[LS], LI-VP- 52[LR]
Flowering Plant	Mycelis muralis	Wall Lettuce	17 records from 2010 to 2021	LI-52[LS]
Flowering Plant	Myosotis ramosissima	Early Forget-me-not	9 records from 2011 to 2022	LI-48[LS], LI-VP-48[LS]
Flowering Plant	Myrica gale	Bog-myrtle	1 record from 2015 to 2015	LBAP-C, LBAP-D, LI-VP- 50[LR], LI-VP-51[LR]
Flowering Plant	Narcissus pseudonarcissus	Daffodil	1 record from 2020 to 2020	LI-50[LS], LI-VP-51[LS]
Flowering Plant	Neottia ovata	Common Twayblade	2 records from 2014 to 2022	LI-48[LS], LI-VP-48[LS]
Flowering Plant	Onopordum acanthium	Cotton Thistle	1 record from 2011 to 2011	GBNNSIP, LI-49[LR], LI- 51[LR], LI-VP-49[LR], LI-VP- 50[LR], LI-VP-51[LS]



Group	Scientific Name	Common Name	Number and date of records	Conservation Status
Flowering Plant	Ophrys apifera	Bee Orchid	10 records from 2012 to 2022	CITES-B, LBAP-G, LI- 48[LR], LI-49[LS], LI-VP- 48[LR], LI-VP-49[LS]
Flowering Plant	Ophrys insectifera	Fly Orchid	2 records from 2010 to 2017	BAP, LI-50[LR], LI-52[LR], LI-VP-50[LR], LI-VP-52[LR], RL-VU, S7, WRL-VP[VU]
Flowering Plant	Orchis mascula	Early-purple Orchid	24 records from 2010 to 2023	LI-48[LS], LI-VP-48[LS]
Flowering Plant	Orobanche hederae	Ivy Broomrape	18 records from 2010 to 2021	LBAP-A, LBAP-C, LI-48[LR], LI-50[LS], LI-52[LS], LI-VP- 48[LR], LI-VP-52[LS]
Flowering Plant	Orobanche minor	Common Broomrape	1 record from 2011 to 2011	LI-49[LR], LI-50[LR], LI- 51[LS], LI-52[LS], LI-VP- 49[LR], LI-VP-50[LR], LI-VP- 51[LS], LI-VP-52[LS]
Moss	Orthotrichum pulchellum	Elegant Bristle-moss	1 record from 2020 to 2020	LBAP-C, LBAP-F
Flowering Plant	Persicaria lapathifolia	Pale Persicaria	2 records from 2014 to 2016	LI-48[LS], LI-VP-48[LS]
Flowering Plant	Petasites hybridus	Butterbur	6 records from 2010 to 2023	LI-48[LS], LI-50[LR], LI-VP- 48[LS]
Conifer	Pinus sylvestris	Scots Pine	18 records from 2011 to 2021	RDB-NS
Moss	Plagiomnium cuspidatum	Woodsy Thyme-moss	1 record from 2020 to 2020	LBAP-C
Flowering Plant	Plantago maritima	Sea Plantain	5 records from 2015 to 2021	LI-50[LS]
Moss	Plasteurhynchium striatulum	Lesser Striated Feather-moss	2 records from 2019 to 2020	LI-49[LR], LI-50[LR], LI- 52[LR], LI-BR-49[LR]



Group	Scientific Name	Common Name	Number and date of records	Conservation Status
Flowering Plant	Platanthera bifolia	Lesser Butterfly-orchid	1 record from 2019 to 2019	BAP, LBAP-C, LBAP-G, LI- 48[LS], LI-49[LR], LI-50[LR], LI-51[LS], LI-52[LS], LI-VP- 48[LS], LI-VP-49[LR], LI-VP- 50[LR], LI-VP-51[LR], LI-VP- 52[LS], RL-VU, S7
Flowering Plant	Platanthera chlorantha	Greater Butterfly-orchid	5 records from 2010 to 2019	LBAP-G, LI-49[LS], LI-50[LS], LI-51[LS], LI-52[LR], LI-VP-48[LNS], LI-VP-49[LS], LI-VP-50[LNS], LI-VP-51[LS], LI-VP-52[LR], RL-NT
Flowering Plant	Poa angustifolia	Narrow-leaved Meadow-grass	1 record from 2019 to 2019	LBAP-D, LBAP-G, LI-49[LS], LI-50[LR], LI-51[LS], LI-VP- 49[LS], LI-VP-50[LR], LI-VP- 51[LR]
Flowering Plant	Poa compressa	Flattened Meadow-grass	2 records from 2015 to 2019	LBAP-G, LI-48[LS], LI- 49[LS], LI-52[LR], LI-VP- 48[LS], LI-VP-49[LS], LI-VP- 51[LR], LI-VP-52[LR]
Flowering Plant	Polygonum oxyspermum	Ray's Knotgrass	3 records from 2015 to 2019	LBAP-A, LBAP-C, LBAP-G, LI-48[LS], LI-49[LS], LI- 50[LR], LI-51[LR], LI-52[LS], LI-VP-48[LS], LI-VP-49[LS], LI-VP-50, LI-VP-51
Fern	Polypodium cambricum	Southern Polypody	4 records from 2012 to 2021	LBAP-A, LBAP-C, LBAP-F, LBAP-G, LI-48[LR], LI- 49[LS], LI-50[LS], LI-51[LR], LI-52[LS], LI-VP-48[LR], LI- VP-49[LS], LI-VP-50[LS], LI- VP-51[LR], LI-VP-52[LS]
Fern	Polypodium interjectum	Intermediate Polypody	41 records from 2011 to 2021	LI-51[LS]



Group	Scientific Name	Common Name	Number and date of records	Conservation Status
Fern	Polypodium vulgare x interjectum = P. x mantoniae	Polypody	2 records from 2014 to 2018	LBAP-G, LI-49[LR], LI- 50[LR], LI-VP-49[LR]
Flowering Plant	Polypogon monspeliensis	Annual Beard-grass	1 record from 2021 to 2021	RDB-NS
Fern	Polystichum aculeatum	Hard Shield-fern	10 records from 2011 to 2021	LI-49[LS], LI-52[LS], LI-VP- 49[LS]
Flowering Plant	Populus nigra	Black-poplar	1 record from 2010 to 2010	GBNNSIP, LBAP-T, LI-VP-52
Flowering Plant	Populus nigra subsp. betulifolia	Black-poplar	12 records from 2012 to 2015	GBNNSIP, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-W, LI-48[LS], LI-50[LS], LI-52[LR], LI-VP-48[LS], LI-VP-52[LR]
Flowering Plant	Populus tremula	Aspen	1 record from 2013 to 2013	LI-52[LS], LI-VP-52[LS]
Liverwort	Porella platyphylla	Wall Scalewort	6 records from 2016 to 2020	LI-49[LR], LI-BR-49[LR]
Flowering Plant	Potamogeton crispus	Curled Pondweed	2 records from 2014 to 2018	LI-48[LR], LI-49[LS], LI-VP- 48[LR], LI-VP-49[LS]
Flowering Plant	Potamogeton pectinatus	Fennel Pondweed	1 record from 2014 to 2014	LI-48[LR], LI-49[LR], LI-VP- 48[LR], LI-VP-49[LR], LI-VP- 50[LS], LI-VP-51[LS]
Flowering Plant	Potentilla anglica x reptans = P. x mixta	Hybrid Cinquefoil	3 records from 2014 to 2016	LBAP-G, LI-49[LR], LI-VP- 49[LR], LI-VP-51
Flowering Plant	Potentilla tabernaemontani	Spring Cinquefoil	5 records from 2019 to 2021	LBAP-A, LBAP-C, LBAP-D, LI-49[LS], LI-50[LR], LI- 51[LR], LI-52[LR], LI-VP- 49[LS], LI-VP-50[LS], LI-VP- 51[LR], LI-VP-52[LR], RDB- NS



Group	Scientific Name	Common Name	Number and date of records	Conservation Status
Flowering Plant	Primula veris	Cowslip	16 records from 2011 to 2022	LI-48[LS], LI-VP-48[LS]
Flowering Plant	Primula veris x vulgaris = P. x polyantha	False Oxlip	3 records from 2012 to 2022	LBAP-G, LI-49[LS], LI-VP- 49[LS], LI-VP-51
Flowering Plant	Prunus padus	Bird Cherry	7 records from 2019 to 2021	LBAP-G, LI-49[LS], LI-VP- 49[LS]
Flowering Plant	Puccinellia distans	Reflexed Saltmarsh-Grass	3 records from 2017 to 2022	LBAP-C, LBAP-D, LBAP-G, LI-48[LR], LI-49[LR], LI- 51[LS], LI-52[LR], LI-VP- 48[LR], LI-VP-49[LR], LI-VP- 52[LR]
Flowering Plant	Pulicaria dysenterica	Common Fleabane	9 records from 2015 to 2019	LI-48[LS], LI-VP-48[LS]
Flowering Plant	Ranunculus auricomus	Goldilocks Buttercup	6 records from 2015 to 2021	LI-48[LR], LI-49[LS], LI- 52[LS], LI-VP-48[LR], LI-VP- 49[LS], LI-VP-52[LS]
Flowering Plant	Ranunculus penicillatus	Stream Water-crowfoot	1 record from 2011 to 2011	LBAP-C, LI-48[LR], LI- 50[LR], LI-51[LS], LI-VP- 48[LR], LI-VP-49[LR], LI-VP- 51[LS], LI-VP-52
Flowering Plant	Ranunculus sceleratus	Celery-leaved Buttercup	2 records from 2017 to 2021	LI-48[LS], LI-VP-48[LS]
Flowering Plant	Raphanus raphanistrum subsp. maritimus	Sea Radish	17 records from 2014 to 2021	LBAP-G, LI-48[LR], LI- 49[LS], LI-50[LS], LI-52[LS], LI-VP-48[LR], LI-VP-49[LS], LI-VP-50[LS]
Flowering Plant	Reseda lutea	Wild Mignonette	3 records from 2019 to 2022	LBAP-G, LI-49[LR], LI- 50[LR], LI-VP-49[LR], LI-VP- 50[LS], LI-VP-51[LS]



Group	Scientific Name	Common Name	Number and date of records	Conservation Status
Flowering Plant	Reseda luteola	Weld	11 records from 2013 to 2021	GBNNSIP, LI-48[LS], LI-VP- 48[LS]
Flowering Plant	Rhamnus cathartica	Buckthorn	1 record from 2016 to 2016	LI-50[LS], LI-51[LS], LI-VP- 51[LS]
Flowering Plant	Rhinanthus minor	Yellow-rattle	10 records from 2015 to 2022	LBAP-A
Flowering Plant	Ribes alpinum	Mountain Currant	1 record from 2010 to 2010	LBAP-C, LBAP-D, LBAP-F, RDB-NS
Flowering Plant	Rorippa microphylla	Narrow-fruited Water-cress	2 records from 2015 to 2016	LBAP-C, LI-50[LR], LI-VP- 50[LS], LI-VP-51[LS]
Flowering Plant	Rosa arvensis x canina = R. x irregularis		1 record from 2016 to 2016	LI-49[LS], LI-50[LS], LI-VP- 49[LS], LI-VP-50[LS]
Flowering Plant	Rosa caesia subsp. caesia	Hairy Dog-rose	3 records from 2015 to 2019	LI-48[LR], LI-50[LR], LI- 52[LR], LI-VP-48[LR], LI-VP- 50[LS], LI-VP-51, LI-VP-52
Flowering Plant	Rosa caesia subsp. vosagiaca	Glaucous Dog-rose	2 records from 2014 to 2019	LI-48[LS], LI-49[LR], LI- 50[LR], LI-VP-48[LS], LI-VP- 49[LR], LI-VP-50, LI-VP-51, LI-VP-52
Flowering Plant	Rosa canina x caesia = R. x dumalis		2 records from 2014 to 2014	LBAP-G, LI-48[LR], LI- 50[LS], LI-VP-48[LR], LI-VP- 51
Flowering Plant	Rosa canina x sherardii = R. x rothschildii		1 record from 2014 to 2014	LI-48[LR], LI-49[LR], LI- 50[LR], LI-VP-48[LR], LI-VP- 49[LR], LI-VP-50[LS], LI-VP- 51
Flowering Plant	Rosa micrantha	Small-flowered Sweet-briar	1 record from 2021 to 2021	LBAP-G, LI-48[LS], LI- 49[LR], LI-50[LS], LI-51[LR], LI-VP-48[LS], LI-VP-49[LR], LI-VP-51[LS]



Group	Scientific Name	Common Name	Number and date of records	Conservation Status
Flowering Plant	Rosa mollis	Soft Downy-rose	1 record from 2014 to 2014	LI-48[LS], LI-VP-48[LS], LI- VP-51
Flowering Plant	Rosa rubiginosa	Sweet-briar	1 record from 2017 to 2017	LBAP-G, LI-49[LS], LI- 50[LS], LI-51[LR], LI-VP- 49[LS], LI-VP-50[LR]
Flowering Plant	Rubia peregrina	Wild Madder	21 records from 2010 to 2022	LBAP-C, LI-48[LR], LI- 50[LS], LI-51[LR], LI-52[LS], LI-VP-48[LR], LI-VP-51[LS], LI-VP-52[LS]
Flowering Plant	Rumex crispus subsp. littoreus		11 records from 2012 to 2019	LI-48[LS], LI-50[LS], LI-VP- 48[LS]
Flowering Plant	Rumex crispus x obtusifolius = R. x pratensis		1 record from 2016 to 2016	LBAP-G, LI-48[LS], LI- 49[LR], LI-VP-48[LS], LI-VP- 49[LR]
Flowering Plant	Ruscus aculeatus	Butcher's-broom	1 record from 2012 to 2012	HDir5, WRL-VP[VU]
Flowering Plant	Sagina apetala subsp. apetala		14 records from 2014 to 2021	LI-51[LR], LI-VP-51[LR]
Flowering Plant	Salix alba	White Willow	1 record from 2017 to 2017	GBNNSIP, LI-49[LR], LI-VP- 49[LR]
Flowering Plant	Salix caprea x cinerea = S. x reichardtii		1 record from 2014 to 2014	LI-52[LR], LI-VP-52[LS]
Flowering Plant	Salix cinerea subsp. cinerea	Grey Willow	1 record from 2016 to 2016	LI-52[LR], LI-VP-52
Flowering Plant	Salix cinerea x aurita = S. x multinervis		2 records from 2013 to 2019	LI-51[LR], LI-VP-51
Flowering Plant	Salix pentandra	Bay Willow	1 record from 2019 to 2019	LI-48[LR], LI-50[LR], LI- 51[LS], LI-VP-48[LR], LI-VP- 51[LR]



Group	Scientific Name	Common Name	Number and date of records	Conservation Status
Flowering Plant	Salix viminalis x caprea = S. x smithiana	Broad-leaved Osier	2 records from 2015 to 2019	GBNNSIP, LBAP-G, LI- 49[LR], LI-50[LS], LI-52[LS], LI-VP-49[LR]
Flowering Plant	Salvia verbenaca	Wild Clary	1 record from 2015 to 2015	LBAP-C, LBAP-D, LI-49[LR], LI-51[LR], LI-52[LR], LI-VP- 49[LR], LI-VP-50[LR], LI-VP- 51[LR], LI-VP-52[LR]
Flowering Plant	Scabiosa columbaria	Small Scabious	7 records from 2011 to 2021	LI-49[LS], LI-VP-49[LS], LI- VP-50[LNS], LI-VP-51[LR], LI-VP-52[EX], WRL-VP[VU]
Flowering Plant	Schoenoplectus lacustris	Common Club-rush	1 record from 2020 to 2020	LBAP-G, LI-49[LS], LI- 50[LS], LI-VP-49[LS], LI-VP- 51[LR]
Flowering Plant	Schoenoplectus tabernaemontani	Grey Club-rush	1 record from 2015 to 2015	LBAP-C, LI-50[LR], LI-VP- 50[LS]
Flowering Plant	Scrophularia auriculata	Water Figwort	4 records from 2012 to 2021	LI-48[LR], LI-52[LS], LI-VP- 48[LR]
Flowering Plant	Sedum anglicum	English Stonecrop	7 records from 2014 to 2019	LI-51[LR], LI-VP-51[LS]
Flowering Plant	Sedum telephium	Orpine	2 records from 2016 to 2021	LI-51[LR], LI-VP-51[LS]
Flowering Plant	Senecio cineraria x jacobaea = S. x albescens		1 record from 2021 to 2021	LI-50, LI-VP-50[LS]
Flowering Plant	Sherardia arvensis	Field Madder	16 records from 2011 to 2022	LI-48[LS], LI-VP-48[LS]
Flowering Plant	Silaum silaus	Pepper-saxifrage	1 record from 2015 to 2015	LI-50[LS], LI-VP-50[LS], LI- VP-51[LS]
Flowering Plant	Silene latifolia	White Campion	18 records from 2014 to 2021	GBNNSIP, LI-48[LS], LI-VP- 48[LS]



Group	Scientific Name	Common Name	Number and date of records	Conservation Status
Flowering Plant	Silene latifolia x dioica = S. x hampeana	Hybrid Campion	4 records from 2017 to 2021	LI-48[LR], LI-VP-48[LR]
Flowering Plant	Silene uniflora	Sea Campion	8 records from 2015 to 2022	LI-48[LS], LI-50[LR], LI-VP- 48[LS], LI-VP-50[LS], LI-VP- 51[LR]
Flowering Plant	Silene vulgaris	Bladder Campion	11 records from 2014 to 2021	WRL-VP[NT]
Flowering Plant	Sinapis arvensis	Charlock	13 records from 2010 to 2019	GBNNSIP, WRL-VP[VU]
Flowering Plant	Smyrnium olusatrum	Alexanders	39 records from 2011 to 2021	GBNNSIP, LI-48[LS], LI-VP- 48[LS]
Flowering Plant	Sorbus aria agg.	Common Whitebeam	2 records from 2011 to 2021	LI-48[LR], LI-VP-48[LR]
Flowering Plant	Sorbus rupicola	Rock Whitebeam	2 records from 2020 to 2022	LBAP-C, LBAP-D, LI-48[LR], LI-49[LS], LI-50[LS], LI- 51[LR], LI-VP-49[LS], LI-VP- 50[LS], LI-VP-51[LS], RDB- NS, WRL-VP[VU]
Flowering Plant	Sorbus torminalis	Wild Service-tree	1 record from 2014 to 2014	LBAP-G, LI-48[LR], LI- 49[LR], LI-50[LS], LI-51[LS], LI-VP-48[LR], LI-VP-49[LR], LI-VP-50[LS], LI-VP-51[LR]
Flowering Plant	Spergula arvensis	Corn Spurrey	1 record from 2011 to 2011	LBAP-G, LI-VP-48[LNS], LI- VP-49[NLS], RL-VU, WRL- VP[NT]
Flowering Plant	Spergularia marina	Lesser Sea-spurrey	2 records from 2017 to 2019	LI-49[LS], LI-VP-49[LS]
Flowering Plant	Spergularia media	Greater Sea-spurrey	1 record from 2014 to 2014	LBAP-C, LI-48[LS], LI- 50[LS], LI-VP-48[LS], LI-VP- 50[LS]



Group	Scientific Name	Common Name	Number and date of records	Conservation Status
Flowering Plant	Spergularia rubra	Sand Spurrey	1 record from 2015 to 2015	LI-51[LS], LI-VP-51[LS]
Flowering Plant	Spergularia rupicola	Rock Sea-spurrey	1 record from 2019 to 2019	LBAP-C, LI-48[LR], LI- 50[LR], LI-VP-48[LR], LI-VP- 50[LS]
Flowering Plant	Spiranthes spiralis	Autumn Lady's-tresses	7 records from 2013 to 2022	LBAP-C, LBAP-G, LI-48[LS], LI-49[LS], LI-50[LR], LI- 51[LS], LI-52[LS], LI-VP- 48[LS], LI-VP-49[LS], LI-VP- 50[LS], LI-VP-51[LS], LI-VP- 52[LS], RL-NT
Flowering Plant	Stachys arvensis	Field Woundwort	1 record from 2014 to 2014	GBNNSIP, LBAP-G, LI- 48[LS], LI-VP-48[LS], LI-VP- 49[NLS], LI-VP-50[LNS], LI- VP-51[LR], RL-NT, WRL- VP[VU]
Flowering Plant	Stellaria neglecta	Greater Chickweed	4 records from 2011 to 2021	LI-48[LS], LI-VP-48[LS], LI- VP-51[LR]
Flowering Plant	Stellaria pallida	Lesser Chickweed	6 records from 2011 to 2015	LI-48[LS], LI-51[LS], LI- 52[LS], LI-VP-48[LS]
Flowering Plant	Tanacetum vulgare	Tansy	5 records from 2012 to 2019	LI-48[LS], LI-VP-48[LS]
Flowering Plant	Thalictrum minus	Lesser Meadow-rue	1 record from 2021 to 2021	LI-50[LS], LI-51[LS], LI- 52[LS], LI-VP-51[LR], LI-VP- 52[LS]
Moss	Thamnobryum alopecurum	Fox-tail Feather-moss	1 record from 2012 to 2012	LBAP-C



Group	Scientific Name	Common Name	Number and date of records	Conservation Status
Flowering Plant	Torilis nodosa	Knotted Hedge-parsley	1 record from 2015 to 2015	LI-49[LS], LI-50[LR], LI- 51[LR], LI-52[LS], LI-VP- 49[LS], LI-VP-50[LS], LI-VP- 51[LR], LI-VP-52[LS]
Moss	Tortella nitida	Neat Crisp-moss	5 records from 2017 to 2019	LBAP-C, LBAP-F, LI-48[LR], LI-49[LR], LI-50[LR], LI- 51[LR], LI-52[LR], LI-BR- 48[LR], LI-BR-49[LR]
Flowering Plant	Tragopogon pratensis	Goat's-beard	22 records from 2011 to 2021	LI-48[LS], LI-VP-48[LS]
Flowering Plant	Trifolium fragiferum	Strawberry Clover	3 records from 2015 to 2022	LI-48[LS], LI-50[LR], LI- 51[LS], LI-VP-48[LS], LI-VP- 50[LS], LI-VP-51[LR], RL-VU
Flowering Plant	Trifolium medium	Zigzag Clover	8 records from 2013 to 2022	LI-48[LS], LI-VP-48[LS]
Flowering Plant	Trifolium micranthum	Slender Trefoil	1 record from 2015 to 2015	LI-48[LR], LI-VP-48[LR], LI- VP-51[LS]
Flowering Plant	Trifolium scabrum	Rough Clover	1 record from 2022 to 2022	LBAP-C, LBAP-G, LI-48[LS], LI-49[LR], LI-50[LR], LI- 51[LR], LI-52[LR], LI-VP- 48[LS], LI-VP-49[LR], LI-VP- 50[LR], LI-VP-51[LR], LI-VP- 52[LS]
Flowering Plant	Trifolium striatum	Knotted Clover	6 records from 2018 to 2022	LI-48[LR], LI-50[LS], LI-VP- 48[LR]
Flowering Plant	Triglochin maritimum	Sea Arrowgrass	1 record from 2021 to 2021	LI-50[LR], LI-VP-50[LS]
Flowering Plant	Tripleurospermum inodorum	Scentless Mayweed	9 records from 2011 to 2021	GBNNSIP, LI-48[LS], LI-VP- 48[LS]



Group	Scientific Name	Common Name	Number and date of records	Conservation Status
Flowering Plant	Trisetum flavescens	Yellow Oat-grass	9 records from 2012 to 2022	LI-48[LS], LI-VP-48[LS]
Flowering Plant	Typha angustifolia	Lesser Bulrush	1 record from 2015 to 2015	LI-48[LR], LI-49[LR], LI-50[LR], LI-52[LS], LI-VP-48[LR], LI-VP-49[LR], LI-VP-50[LS], LI-VP-52[LS]
Flowering Plant	Ulex gallii	Western Gorse	17 records from 2014 to 2021	LBAP-A, LBAP-C, LBAP-E
Flowering Plant	Ulmus procera	English Elm	6 records from 2012 to 2021	LI-48[LS], LI-VP-48[LS]
Flowering Plant	Umbilicus rupestris	Navelwort	3 records from 2014 to 2019	LI-51[LS], LI-VP-51
Flowering Plant	Urtica urens	Small Nettle	12 records from 2011 to 2021	GBNNSIP, LI-48[LS], LI-VP- 48[LS]
Flowering Plant	Valeriana dioica	Marsh Valerian	1 record from 2014 to 2014	LI-48[LS], LI-49[LR], LI- 50[LS], LI-VP-48[LS], LI-VP- 49[LR], LI-VP-52[EX]
Flowering Plant	Valerianella carinata	Keeled-fruited Cornsalad	1 record from 2015 to 2015	GBNNSIP, LI-50[LS], LI- 51[LR]
Flowering Plant	Valerianella locusta	Common Cornsalad	3 records from 2015 to 2022	LI-50[LS]
Flowering Plant	Verbena officinalis	Vervain	1 record from 2021 to 2021	GBNNSIP, LBAP-G, LI- 49[LS], LI-50[LR], LI-51[LR], LI-52[LR], LI-VP-49[LS], LI- VP-50[LR], LI-VP-51, LI-VP- 52[LR]
Flowering Plant	Veronica agrestis	Green Field-speedwell	2 records from 2014 to 2021	GBNNSIP, LI-48[LS], LI-VP- 48[LS]



Group	Scientific Name	Common Name	Number and date of records	Conservation Status
Flowering Plant	Veronica spicata	Spiked Speedwell	1 record from 2011 to 2011	LBAP-D, LI-50[LR], LI-VP- 48, LI-VP-49[LS], LI-VP- 50[LR], LI-VP-51, WCA8
Flowering Plant	Veronica spicata subsp. hybrida	Western Spiked Speedwell	1 record from 2018 to 2018	LI-48[LR], LI-49[LS], LI- 51[LR], LI-VP-48[LR], LI-VP- 49[LS], LI-VP-50[LR], LI-VP- 51, RDB-NS, WCA8
Flowering Plant	Viburnum opulus	Guelder-rose	9 records from 2012 to 2018	LI-52[LS], LI-VP-52[LS]
Flowering Plant	Vicia tetrasperma	Smooth Tare	5 records from 2014 to 2022	LBAP-G, LI-48[LS], LI- 49[LR], LI-VP-48[LS], LI-VP- 49[LR], LI-VP-51, LI-VP- 52[LS]
Flowering Plant	Vinca minor	Lesser Periwinkle	3 records from 2010 to 2015	GBNNSIP, LBAP-G, LI- 49[LS], LI-VP-49[LS], LI-VP- 51
Flowering Plant	Viola arvensis	Field Pansy	2 records from 2014 to 2019	GBNNSIP, LI-48[LS], LI-VP-48[LS]
Flowering Plant	Viola hirta	Hairy Violet	4 records from 2010 to 2022	LI-49[LS], LI-50[LS], LI- 52[LS], LI-VP-49[LS], LI-VP- 51
Flowering Plant	Viola odorata	Sweet Violet	3 records from 2012 to 2015	LI-48[LR], LI-VP-48[LR]
Flowering Plant	Viola reichenbachiana	Early Dog-violet	15 records from 2015 to 2023	LI-52[LS]
Flowering Plant	Vulpia myuros	Rat's-tail Fescue	1 record from 2015 to 2015	GBNNSIP, LBAP-G, LI- 49[LS], LI-52[LS], LI-VP- 49[LS]
Moss	Weissia controversa	Green-tufted Stubble-moss	5 records from 2019 to 2020	LBAP-D



Group	Scientific Name	Common Name	Number and date of records	Conservation Status
Moss	Weissia longifolia	Crisp Beardless-moss	1 record from 2017 to 2017	LBAP-D, LI-BR-49[LR]

### A.1.2 Terrestrial invertebrates

### **Table A. 2 Terrestrial invertebrates.**

Group	Scientific Name	Common Name	Number and date of records	Conservation Status
Insect - Moth	Acronicta psi	Grey Dagger	1 record from 2013 to 2013	BAP, LBAP-G, S7
Insect - Dragonfly (Odonata)	Aeshna cyanea	Southern Hawker	8 records from 2010 to 2020	LBAP-E
Insect - Dragonfly (Odonata)	Aeshna grandis	Brown Hawker	1 record from 2022 to 2022	LBAP-E, LBAP-G
Insect - Dragonfly (Odonata)	Aeshna juncea	Common Hawker	7 records from 2010 to 2019	LBAP-E
Insect - Dragonfly (Odonata)	Aeshna mixta	Migrant Hawker	2 records from 2011 to 2011	LBAP-E
Insect - Moth	Agrochola lychnidis	Beaded Chestnut	2 records from 2010 to 2014	BAP, LBAP-G, S7



Group	Scientific Name	Common Name	Number and date of records	Conservation Status
Insect - Moth	Allophyes oxyacanthae	Green-brindled Crescent	2 records from 2011 to 2013	BAP, LBAP-G, S7
Insect - Moth	Amphipyra tragopoginis	Mouse Moth	2 records from 2012 to 2016	BAP, LBAP-G, S7
Insect - Dragonfly (Odonata)	Anax imperator	Emperor Dragonfly	14 records from 2010 to 2018	LBAP-E
Insect - Moth	Anchoscelis litura	Brown-spot Pinion	1 record from 2013 to 2013	BAP, S7
Insect - Moth	Apamea remissa	Dusky Brocade	2 records from 2011 to 2019	BAP, LBAP-G, S7
Insect - Moth	Arctia caja	Garden Tiger	1 record from 2011 to 2011	BAP, LBAP-G, S7
Insect - Butterfly	Aricia agestis	Brown Argus	2 records from 2011 to 2019	LBAP-D
Insect - Moth	Atethmia centrago	Centre-barred Sallow	1 record from 2014 to 2014	BAP, LBAP-G, S7
Insect - Hymenopteran	Bombus hortorum	Small Garden Bumblebee	1 record from 2012 to 2012	LBAP-F
Insect - Hymenopteran	Bombus lapidarius	Red-tailed Bumblebee	5 records from 2012 to 2022	LBAP-F
Insect - Hymenopteran	Bombus lucorum	White-tailed Bumblebee	1 record from 2017 to 2017	LBAP-F



Group	Scientific Name	Common Name	Number and date of records	Conservation Status
Insect - Hymenopteran	Bombus pascuorum	Common Carder Bee	3 records from 2012 to 2022	LBAP-F
Insect - Hymenopteran	Bombus pratorum	Early Bumblebee	2 records from 2012 to 2014	LBAP-F
Insect - Hymenopteran	Bombus terrestris	Buff-tailed Bumblebee	4 records from 2012 to 2020	LBAP-F
Insect - Moth	Callimorpha dominula	Scarlet Tiger	6 records from 2018 to 2023	LBAP-G
Insect - Dragonfly (Odonata)	Calopteryx splendens	Banded Demoiselle	1 record from 2018 to 2018	LBAP-E
Insect - Dragonfly (Odonata)	Calopteryx virgo	Beautiful Demoiselle	5 records from 2011 to 2022	LBAP-E
Insect - Moth	Caradrina morpheus	Mottled Rustic	1 record from 2016 to 2016	BAP, LBAP-G, S7
Insect - Butterfly	Celastrina argiolus	Holly Blue	17 records from 2013 to 2022	LBAP-C
Insect - Moth	Ceramica pisi	Broom Moth	2 records from 2010 to 2015	BAP, LBAP-G, S7
Insect - Moth	Chiasmia clathrata	Latticed Heath	1 record from 2010 to 2010	BAP, LBAP-G, S7
Insect - Moth	Cirrhia gilvago	Dusky-lemon Sallow	1 record from 2013 to 2013	BAP, S7



Group	Scientific Name	Common Name	Number and date of records	Conservation Status
Insect - Moth	Cirrhia icteritia	Sallow	2 records from 2011 to 2013	BAP, LBAP-G, S7
Insect - Dragonfly (Odonata)	Coenagrion puella	Azure Damselfly	16 records from 2010 to 2019	LBAP-E
Insect - Butterfly	Coenonympha pamphilus	Small Heath	4 records from 2012 to 2022	BAP, LBAP-G, RL-NT, S7
Insect - Dragonfly (Odonata)	Cordulegaster boltonii	Golden-ringed Dragonfly	1 record from 2017 to 2017	LBAP-E
Insect - Moth	Diarsia rubi	Small Square-spot	2 records from 2010 to 2013	BAP, LBAP-G, S7
Insect - Moth	Diloba caeruleocephala	Figure of Eight	1 record from 2015 to 2015	BAP, S7
Insect - Moth	Ecliptopera silaceata	Small Phoenix	1 record from 2014 to 2014	BAP, LBAP-G, S7
Insect - Dragonfly (Odonata)	Enallagma cyathigerum	Common Blue Damselfly	12 records from 2010 to 2021	LBAP-E
Insect - Moth	Ennomos erosaria	September Thorn	2 records from 2011 to 2013	BAP, S7
Insect - Moth	Ennomos fuscantaria	Dusky Thorn	2 records from 2011 to 2013	BAP, LBAP-G, S7
Insect - Moth	Ennomos quercinaria	August Thorn	1 record from 2013 to 2013	BAP, LBAP-G, S7



Group	Scientific Name	Common Name	Number and date of records	Conservation Status
Insect - Butterfly	Erynnis tages	Dingy Skipper	3 records from 2021 to 2022	BAP, LBAP-C, LBAP-F, LBAP-G, RL-VU, S7
Insect - Butterfly	Favonius quercus	Purple Hairstreak	8 records from 2010 to 2021	LBAP-C
Insect - Moth	Hepialus humuli	Ghost Moth	1 record from 2010 to 2010	BAP, LBAP-G, S7
Insect - Butterfly	Hipparchia semele	Grayling	4 records from 2010 to 2022	BAP, LBAP-G, RL-VU, S7
Insect - Moth	Hoplodrina blanda	Rustic	2 records from 2012 to 2013	BAP, LBAP-G, S7
Insect - Moth	Hydraecia micacea	Rosy Rustic	2 records from 2011 to 2013	BAP, LBAP-G, S7
Insect - Dragonfly (Odonata)	Ischnura elegans	Blue-tailed Damselfly	19 records from 2010 to 2018	LBAP-E
Insect - Butterfly	Lasiommata megera	Wall	9 records from 2011 to 2022	BAP, LBAP-G, RL-NT, S7
Insect - Dragonfly (Odonata)	Lestes sponsa	Emerald Damselfly	6 records from 2012 to 2020	LBAP-E, LI-50
Insect - Moth	Leucania comma	Shoulder-striped Wainscot	2 records from 2012 to 2020	BAP, LBAP-G, S7



Group	Scientific Name	Common Name	Number and date of records	Conservation Status
Insect - Dragonfly (Odonata)	Libellula depressa	Broad-bodied Chaser	12 records from 2010 to 2022	LBAP-E
Insect - Dragonfly (Odonata)	Libellula quadrimaculata	Four-spotted Chaser	10 records from 2010 to 2019	LBAP-E
Insect - Moth	Lycia hirtaria	Brindled Beauty	1 record from 2016 to 2016	BAP, LBAP-G, S7
Insect - Moth	Mecyna asinalis	Coastal Pearl	1 record from 2022 to 2022	RDB-NB
Insect - Moth	Melanchra persicariae	Dot Moth	1 record from 2013 to 2013	BAP, LBAP-G, S7
Insect - Moth	Mniotype adusta	Dark Brocade	1 record from 2010 to 2010	BAP, LBAP-G, S7
Insect - Dragonfly (Odonata)	Orthetrum cancellatum	Black-tailed Skimmer	2 records from 2011 to 2020	LBAP-E
Insect - Moth	Orthosia gracilis	Powdered Quaker	2 records from 2012 to 2015	BAP, LBAP-G, S7
Insect - Butterfly	Plebejus argus	Silver-studded Blue	2 records from 2020 to 2023	BAP, LBAP-C, LBAP-D, LBAP-E, LBAP-F, RL-VU, S7, WCA5
Insect - Butterfly	Plebejus argus caernensis		1 record from 2014 to 2014	BAP, S7, WCA5
Insect - Butterfly	Plebejus argus cretaceus	Silver-Studded Blue	2 records from 2020 to 2020	BAP, S7, WCA5
Insect - Dragonfly (Odonata)	Pyrrhosoma nymphula	Large Red Damselfly	15 records from 2010 to 2020	LBAP-E



Group	Scientific Name	Common Name	Number and date of records	Conservation Status
Insect - Moth	Rhizedra lutosa	Large Wainscot	2 records from 2010 to 2012	BAP, LBAP-G, S7
Insect - Butterfly	Satyrium w-album	White-letter Hairstreak	2 records from 2018 to 2018	BAP, LBAP-F, RL-EN, S7, WCA5
Insect - Moth	Scotopteryx bipunctaria	Chalk Carpet	1 record from 2021 to 2021	BAP, LBAP-D, S7
Insect - Moth	Scotopteryx chenopodiata	Shaded Broad-bar	7 records from 2010 to 2022	BAP, LBAP-G, S7
Insect - Beetle (Coleoptera)	Sitona macularius		1 record from 2010 to 2010	RDB-NB
Insect - Butterfly	Speyeria aglaja	Dark Green Fritillary	5 records from 2019 to 2023	LBAP-F, LBAP-G
Insect - Moth	Spilosoma lubricipeda	White Ermine	2 records from 2010 to 2016	BAP, LBAP-G, S7
Insect - Moth	Spilosoma lutea	Buff Ermine	2 records from 2010 to 2013	BAP, LBAP-G, S7
Insect - Dragonfly (Odonata)	Sympetrum danae	Black Darter	2 records from 2019 to 2019	LBAP-E
Insect - Dragonfly (Odonata)	Sympetrum sanguineum	Ruddy Darter	4 records from 2019 to 2019	LBAP-E, LI-50
Insect - Dragonfly (Odonata)	Sympetrum striolatum	Common Darter	10 records from 2011 to 2021	LBAP-E, RL-DD



Group	Scientific Name	Common Name	Number and date of records	Conservation Status
Insect - Moth	Tholera cespitis	Hedge Rustic	1 record from 2018 to 2018	BAP, LBAP-G, S7
Insect - Moth	Tholera decimalis	Feathered Gothic	1 record from 2013 to 2013	BAP, S7
Insect - Moth	Timandra comae	Blood-vein	2 records from 2013 to 2013	BAP, S7
Insect - Moth	Tyria jacobaeae	Cinnabar	8 records from 2012 to 2020	BAP, LBAP-G, S7
Insect - Moth	Watsonalla binaria	Oak Hook-tip	1 record from 2013 to 2013	BAP, LBAP-G, S7

# A.1.3 Aquatic invertebrates and fish

## Table A. 3 Aquatic invertebrates and fish.

Group	Taxon Name	Common Name	Number and date of records	Conservation Status
Bony Fish (Actinopterygii)	Scardinius erythrophthalmus	Rudd	1 record from 2018	LBAP-C
Cartilagenous Fish (Chondrichthyes)	Scyliorhinus canicula	Lesser Spotted Dogfish	1 record from 2014	LBAP-C



# A.1.4 Amphibians and reptiles

## Table A. 4 Amphibians and reptiles.

Group	Scientific Name	Common Name	Date and number of records	Conservation Status
Reptile	Anguis fragilis	Slow-worm	17 records from 2010 to 2023	BAP, Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP- G, LBAP-T, S7, WCA5
Amphibian	Bufo bufo	Common Toad	18 records from 2010 to 2020	BAP, Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP- T, S7, WCA5
Amphibian	Lissotriton	Newt sp.	25 records from 2011 to 2021	Bern3, WCA5
Amphibian	Lissotriton helveticus	Palmate Newt	27 records from 2011 to 2023	Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5
Amphibian	Lissotriton vulgaris	Smooth Newt	25 records from 2010 to 2023	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5
Reptile	Natrix helvetica	Grass Snake	7 records from 2011 to 2022	BAP, Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP- G, LBAP-T, S7, WCA5
Amphibian	Rana temporaria	Common Frog	20 records from 2010 to 2023	Bern3, HDir5, LBAP-A, LBAP-C, LBAP-F, LBAP-T, WCA5
Amphibian	Triturus cristatus	Great Crested Newt	31 records from 2011 to 2023	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP- E, LBAP-F, LBAP-T, LBAP-W, S7, WCA5
Reptile	Zootoca vivipara	Common Lizard	6 records from 2011 to 2021	BAP, Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP- G, LBAP-T, S7, WCA5



## A.1.5 Terrestrial mammals

Table A. 5 Terrestrial mammals.

Group	Scientific Name	Common Name	Date and number of records	Conservation Status
Terrestrial Mammal	Arvicola amphibius	Water Vole	4 records from 2012 to 2019	BAP, LBAP-A, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, LBAP-T, RL-EN, S7, WCA5, WRL-TM[EN]
Terrestrial Mammal	Chiroptera	Bat	5 records from 2012 to 2018	Bern2, Bonn2, CHS2, HDir4, LBAP-T, WCA5
Terrestrial Mammal	Dama dama	Fallow Deer	23 records from 2011 to 2023	Bern3, GBNNSIP, LBAP-C
Terrestrial Mammal	Eptesicus serotinus	Serotine	6 records from 2010 to 2012	Bern2, Bonn2, CHS2, HDir4, LBAP-G, RL-VU, WCA5, WRL- TM[VU]
Terrestrial Mammal	Erinaceus europaeus	Hedgehog	91 records from 2010 to 2022	BAP, Bern3, LBAP-A, LBAP-C, LBAP-F, LBAP-G, RL-VU, S7, WRL-TM[VU]
Terrestrial Mammal	Lepus europaeus	Hare	3 records from 2010 to 2012	BAP, LBAP-A, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, S7
Terrestrial Mammal	Lutra lutra	Otter	19 records from 2011 to 2022	BAP, Bern2, CHS2, CITES-A, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, LBAP-T, LBAP-W, S7, WCA5, WRL-TM[VU]
Terrestrial Mammal	Meles meles	Badger	88 records from 2010 to 2023	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-W, PBA
Terrestrial Mammal	Muscardinus avellanarius	Hazel Dormouse	5 records from 2010 to 2017	BAP, Bern3, CHS2, HDir4, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, LBAP-T, RL- VU, S7, WCA5, WRL-TM[VU]



Group	Scientific Name	Common Name	Date and number of records	Conservation Status
Terrestrial Mammal	Mustela putorius	Polecat	7 records from 2012 to 2021	BAP, Bern3, CHS4, HDir5, LBAP-C, LBAP-E, LBAP-F, LBAP-G, S7
Terrestrial Mammal	Myotis	Myotis Bat species	11 records from 2010 to 2020	Bern2, Bonn2, CHS2, HDir4, WCA5
Terrestrial Mammal	Myotis mystacinus/brandtii	Whiskered/Brandt's Bat	3 records from 2012 to 2019	Bern2, Bonn2, CHS2, HDir4, LBAP-C, RL-DD, WCA5
Terrestrial Mammal	Myotis nattereri	Natterer's Bat	4 records from 2011 to 2015	Bern2, Bonn2, CHS2, HDir4, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, WCA5
Terrestrial Mammal	Nyctalus noctula	Noctule Bat	15 records from 2010 to 2020	BAP, Bern2, Bonn2, CHS2, HDir4, LBAP-A, LBAP-C, LBAP- D, LBAP-E, LBAP-F, LBAP-G, S7, WCA5
Terrestrial Mammal	Pipistrellus	Pipistrelle Bat species	4 records from 2011 to 2020	Bern2, Bonn2, CHS2, HDir4, S7, WCA5
Terrestrial Mammal	Pipistrellus pipistrellus	Common Pipistrelle	24 records from 2010 to 2019	Bonn2, CHS2, HDir4, LBAP-A, LBAP-D, LBAP-E, LBAP-F, LBAP-G, S7, WCA5
Terrestrial Mammal	Pipistrellus pipistrellus	Pipistrelle	1 record from 2021 to 2021	Bern2, Bern3, Bonn2, CHS2, HDir4, LBAP-C, S7, WCA5
Terrestrial Mammal	Pipistrellus pygmaeus	Soprano Pipistrelle	18 records from 2010 to 2020	BAP, Bern2, Bonn2, CHS2, HDir4, LBAP-A, LBAP-D, LBAP- E, LBAP-F, LBAP-G, S7, WCA5
Terrestrial Mammal	Plecotus	Long-eared Bat species	1 record from 2011 to 2011	Bern2, Bonn2, CHS2, HDir4, WCA5
Terrestrial Mammal	Plecotus auritus	Brown Long-eared Bat	11 records from 2010 to 2020	BAP, Bern2, Bonn2, CHS2, HDir4, LBAP-A, LBAP-C, LBAP- D, LBAP-F, LBAP-G, S7, WCA5



Group	Scientific Name	Common Name	Date and number of records	Conservation Status
Terrestrial Mammal	Rhinolophus ferrumequinum	Greater Horseshoe Bat	4 records from 2010 to 2013	BAP, Bern2, Bonn2, CHS2, HDir2, HDir4, S7, WCA5, WRL- TM[NT]
Terrestrial Mammal	Rhinolophus hipposideros	Lesser Horseshoe Bat	17 records from 2010 to 2021	BAP, Bern2, Bonn2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, LBAP-W, S7, WCA5
Terrestrial Mammal	Sorex araneus	Common Shrew	1 record from 2020 to 2020	Bern3, LBAP-A, LBAP-C

# A.1.6 Invasive and non-native species

Table A. 6 Invasive non-native species.

Group	Scientific Name	Common Name	Number and date of records	Conservation Status
Flowering Plant	Allium triquetrum	Three-cornered Garlic	3 records from 2012 to 2015	GBNNSIP, INNS, WCA9
Flowering Plant	Arbutus unedo	Strawberry-tree	1 record from 2000 to 2000	INNS
Crustacean	Austrominius modestus	Modest barnacle	7 records from 1990 to 2003	GBNNSIP, INNS
Fern	Azolla filiculoides	Water Fern	3 records from 2008 to 2012	GBNNSIP, INNS, WCA9
Flowering Plant	Cortaderia selloana	Pampas-grass	2 records from 2015 to 2020	GBNNSIP, INNS
Flowering Plant	Cotoneaster horizontalis	Wall Cotoneaster	11 records from 2011 to 2021	GBNNSIP, INNS, WCA9
Flowering Plant	Cotoneaster integrifolius	Entire-leaved Cotoneaster	8 records from 1995 to 2019	GBNNSIP, INNS, WCA9



Group	Scientific Name	Common Name	Number and date of records	Conservation Status
Flowering Plant	Cotoneaster microphyllus	Small-leaved Cotoneaster	8 records from 2011 to 2021	INNS, WCA9
Flowering Plant	Cotoneaster simonsii	Himalayan Cotoneaster	7 records from 2015 to 2021	GBNNSIP, INNS, WCA9
Crustacean	Crangonyx pseudogracilis/floridanus		1 record from 2017 to 2017	GBNNSIP, INNS
Flowering Plant	Crassula helmsii	New Zealand Pigmyweed	1 record from 1989 to 1989	GBNNSIP, INNS, WCA9
Flowering Plant	Crocosmia pottsii x aurea = C. x crocosmiiflora	Montbretia	23 records from 2011 to 2021	GBNNSIP, INNS, WCA9
Flowering Plant	Elodea canadensis	Canadian Waterweed	2 records from 1978 to 2014	GBNNSIP, INNS, WCA9
Mollusc	Ensis leei	American jack knife clam	1 record from 2022 to 2022	GBNNSIP, INNS
Flowering Plant	Epilobium brunnescens	New Zealand Willowherb	1 record from 2010 to 2010	GBNNSIP, INNS
Flowering Plant	Fallopia japonica	Japanese Knotweed	16 records from 1994 to 2022	GBNNSIP, INNS, WCA9
Flowering Plant	Fallopia sachalinensis	Giant Knotweed	1 record from 1992 to 1992	GBNNSIP, INNS, WCA9
Insect - Beetle (Coleoptera)	Harmonia axyridis	Harlequin Ladybird	9 records from 2014 to 2022	GBNNSIP, INNS
Flowering Plant	Heracleum mantegazzianum	Giant Hogweed	1 record from 2004 to 2004	GBNNSIP, INNS, WCA9
Flowering Plant	Hippophae rhamnoides	Sea-buckthorn	9 records from 1995 to 2020	INNS, LBAP-C, RDB-NS
Flowering Plant	Hyacinthoides hispanica	Spanish Bluebell	4 records from 2012 to 2019	GBNNSIP, INNS



Group	Scientific Name	Common Name	Number and date of records	Conservation Status
Flowering Plant	Hyacinthoides non-scripta x hispanica = H. x massartiana		4 records from 2015 to 2017	GBNNSIP, INNS
Flowering Plant	Impatiens glandulifera	Himalayan Balsam	32 records from 1995 to 2022	GBNNSIP, INNS, WCA9
Flowering Plant	Lamiastrum galeobdolon subsp. argentatum	Variegated Yellow Archangel	10 records from 2012 to 2019	GBNNSIP, INNS, WCA9
Flowering Plant	Leycesteria formosa	Himalayan Honeysuckle	2 records from 2015 to 2021	GBNNSIP, INNS
Flowering Plant	Lysichiton americanus	American Skunk-cabbage	2 records from 2022 to 2022	GBNNSIP, INNS
Flowering Plant	Mimulus guttatus	Monkeyflower	5 records from 1968 to 2020	GBNNSIP, INNS
Terrestrial Mammal	Neovison vison	American Mink	16 records from 1990 to 2018	GBNNSIP, INNS, WCA9
Flowering Plant	Prunus laurocerasus	Cherry Laurel	26 records from 1985 to 2021	GBNNSIP, INNS
Flowering Plant	Prunus Iusitanica	Portugal Laurel	2 records from 2000 to 2011	GBNNSIP, INNS
Flowering Plant	Rhododendron ponticum		5 records from 1996 to 2021	GBNNSIP, INNS, WCA9
Flowering Plant	Rosa rugosa	Japanese Rose	12 records from 2015 to 2020	GBNNSIP, INNS, WCA9
Flowering Plant	Sedum album	White Stonecrop	25 records from 2015 to 2021	GBNNSIP, INNS