




2024



**Summerleaze Cottage**  
**John Williams**  
**Preliminary Ecological Appraisal**



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## 1 NON-TECHNICAL SUMMARY

The summary below is based on the current understanding of the development proposals (currently none) and survey remit. Recommendations for additional ecological work and other implementable measures are based on best available information on potential future requirements. Further consultation may be required for future works undertaken by John Williams.

Please refer to Section 5 for legislative context and more detailed description of recommendations.

**Table 1: Technical Summary Table**

| Feature or Species      | PEA Recommendations Summary   |
|-------------------------|---|
| <b>Habitat</b>          | Summerleaze Cottage is surrounded by agricultural fields with a single carriage way road running along the south side of the property. The property is roughly 0.08ha in area consisting of the cottage and surrounding garden. Whitehall Reen runs directly adjacent to the north of the cottage within 5m of the property.  |
| <b>Designated Sites</b> | <p>The property is wholly within and surrounded by the Gwent Levels Redwick and Llandevey SSSI. There are a further 6 designated sites within 2km of the property. These consist of the Severn Estuary, Ramsar site, SAC, SPA and SSSI which is within 1.2km of the site, Gwent Levels – Magor and Undy SSSI 0.3km from the site, Magor Marsh SSSI 1.5km away, and the Gwent Levels Whitson SSSI 1.9km away.</p> <p>A Habitats Regulations Assessment (HRA) may be required by the Local planning Authority. SSSI assent may also be required. It should be noted that the need for these is dependent on the nature of the of the proposed development.</p>  |
| <b>Mammals</b>          | <p><i>Bats</i></p> <p>No evidence of current or historical roosting bats was found on the property during the Preliminary Roost Appraisal (PRA). The property was deemed to be of 'low' potential for roosting bats due a small number of potential roosting features (PRFs) being identified with a recommendation for one dusk emergence survey to be undertaken in accordance with current survey guidelines. No bats were observed using the property.</p> <p>No further surveys are required.</p> <p><i>Dormouse</i></p> <p>There is a single record of this species from the from a location approximately 1.3km to the south east of the development site. The two sites are connected by a network of hedgerows although those in the area of Summerleaze are not particularly suitable for dormice, being low, thin and gappy. Further surveys may be necessary depending on the finalised development proposals.</p> <p><i>Eurasian otter</i></p> <p>Data search results indicate otter presence further downstream in the reen. No evidence of otters was observed; however, the aquatic habitat is suitable for foraging and dispersal while the riparian habitat features such as holts and couches. Their use of the reen should be assumed and their potential presence should be included as a risk factor. Further surveys may be required depending on the finalised development plans. If their presence is confirmed, a development licence from Natural Resources Wales (NRW) will be required prior to works commencing.</p> <p><i>Eurasian badger</i></p> <p>No evidence of this species was observed on the site; the development site is also very low lying and close to the water table. It is therefore unlikely that badgers could excavate setts. No further surveys are required.</p> <p><i>Water vole</i></p> <p>Multiple records were found of water vole within 2km of the site with the latest records being from 2017 approximately 324m away from the site; It was not possible to survey the reen accurately during this site visit. It is therefore recommended that a survey be undertaken if the development proposals require working within 5m of the bank. Otherwise, a precautionary approach should be taken, with any work being undertaken in accordance with a method statement and under ecological supervision. If water voles are found to be</p> |



| Feature or Species | PEA Recommendations Summary   |
|--------------------|---|
|                    | present and are likely to be impacted by the development, a licence from NRW will be required prior to works commencing.  |
| <b>Birds</b>       | No birds were observed using the site and no nests found. The vegetation surrounding the site offers suitable habitat for shrub nesting species. The site is too small and overlooked for ground nesting birds to use. It is recommended that any vegetation clearance should be undertaken outside the bird breeding season (i.e. September to March inclusive). If this is not possible, clearance can be undertaken during the nesting season as long as it is done in accordance with a method statement and under ecological supervision.  |
| <b>Amphibians</b>  | <p><i>Great crested newt</i></p> <p>There are no records of this species within the data search results. Various surveys in support of a number of projects across the Gwent levels have never recorded this species and so it can be assumed that it is not present.</p> <p><i>Common species</i></p> <p>There are records of smooth and palmate newt from the area along with records of common frog and toad. Their presence should be assumed on and adjacent to the development site. While these are protected, the protection extends only to trade. However, it is good practice to avoid harm and therefore working in accordance with a method statement is a recommended in areas which are likely to provide habitat for these species.</p> |
| <b>Reptiles</b>    | The habitat on and around the site is suitable for common reptiles, particularly grass snake and slow worm. It is perhaps less likely that adders will be present but still possible. The presence of common species of reptile should be assumed. As with amphibians, clearance of the site in accordance with a method statement and under ecological supervision is recommended.   |



## 2 INTRODUCTION

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### 2.1 PROJECT BACKGROUND

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- 2.1.1 EcoVigour Ltd was instructed by John Williams to undertake a Preliminary Ecological Appraisal (PEA) of Summerleaze Cottage, to assess the ecological constraints likely to affect any development on the site.
- 2.1.2 The objectives for the survey were:
- ◆ To undertake a walkover of the site;
  - ◆ To identify ecological features on or near the site that could pose a constraint to any proposed works;
  - ◆ To make recommendations for any valuable habitats to be considered, through retention or enhancement, or if this is not possible, by habitat mitigation or compensation;
  - ◆ To assess the site's potential to support protected species and make recommendations for further survey where required to clarify potential ecological constraints and inform design proposals;
  - ◆ To identify opportunities for incorporating biodiversity enhancements into the development proposals;
  - ◆ To identify the presence of any invasive non-native species on site.
- 2.1.3 The ecological report has been prepared in accordance with the Chartered Institute of Ecology and Environmental Management (CIEEM) guidance document '*Guidelines for Preliminary Ecological Appraisal - Second Edition*' (CIEEM, 2017).
- 2.1.4 The objective of this report is to provide a preliminary ecological assessment of the site based on the currently anticipated design.
- 2.1.5 Recommendations for further surveys are provided where necessary.

### 2.2 SURVEY AREA DESCRIPTION

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- 2.2.1 The site is located at Summerleaze Cottage, Green Street, Caldicot, NP26 3DE. Approx OS: ST 42165 84991.
- 2.2.2 The site is comprised of a two storey cottage in an overgrown garden located in a wholly rural area surrounded by open pastoral and arable fields delineated by hedgerows, watercourses and minor roads. It is understood at the of writing that there are no development proposals.
- 2.2.3 Photographs are at **Appendix A**.
- 2.2.4 The approximate survey area is illustrated below, highlighted orange:



**Figure 1: Survey Location.**

### 2.3 WORKS REQUIRED

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- 2.3.1 There are no confirmed development proposals at this stage; the survey has been undertaken to inform any such proposals as may be considered.
- 2.3.2 It is anticipated that any work would undertaken under the auspices of the Town and County Planning Act (1990 as amended).

### 3 METHODOLOGY

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#### 3.1 DESK STUDY

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- 3.1.1 The South East Wales Biodiversity Records Centre (SEWBReC) was consulted in order to provide biological information on the presence of international, nationally designated sites, local designations within 2kms, protected and priority species and other species of conservation concern within 2kms of the proposed development site.
- 3.1.2 The desk study included a review of OS mapping for waterbodies within 500m of the site.
- 3.1.3 Only a summary of the biological records data has been provided in this report as general publication is not allowed.

#### 3.2 FIELD WORK

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- 3.1.1 The walkover was conducted by Cameron Quigley an experienced EcoVigour Ltd ecologist on the 17<sup>th</sup> May 2024. The survey was conducted using methods outlined in the Joint Nature Conservation Committee (JNCC)'s '*Handbook for Phase 1 Habitat Survey – A Technique for Environmental Audit*' (JNCC, 2010). The survey consisted of a visual survey of the site, identifying the broad habitat types present, identifying the suitability of the site to support protected and priority species.
- 3.1.2 A Preliminary Roost Assessment was conducted by Isabella Stephens an experienced EcoVigour Ltd, NRW level 2 Bat Licensed, ecologist on the 25<sup>th</sup> January 2024. The PRA was undertaken following the *Bat Surveys for Professional Ecologists: Good Practice Guidelines* (Collins (Ed), 2023). This survey is available under separate cover.
- 3.1.3 Incidental observations of protected and/or priority species and the potential for such species to occur on site (and in the surrounding landscape where relevant) were also noted, however no specific protected/priority species surveys were undertaken as part of this preliminary ecological assessment.
- 3.1.4 A search for invasive non-native species as defined in Schedule 9 of the Wildlife and Countryside Act (1981) as amended, was made during the survey. Under the Act it is an offence to spread, or cause the spread of, these species.

#### 3.2 LIMITATIONS

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- 3.2.1 Third party biological records do not provide a full species list for the area. The absence of records does not necessarily indicate absence of a species or habitat from the area as it may be that these have not yet been recorded from the area or have not yet been digitised.
- 3.2.2 The results of the survey and assessment undertaken by EcoVigour Ltd are representative at the time of survey.
- 3.2.3 This document does not provide a comprehensive list of botanical species on site with only plant species characteristic of each habitat and any incidental observations of notable plant species being recorded. In addition, many plant species are only evident at certain times of the year; therefore, some plant species may have been undetected.
- 3.2.4 No targeted ecological surveys (other than the PRA in respect of bats) were undertaken as part of this assessment to determine the presence of specific species.



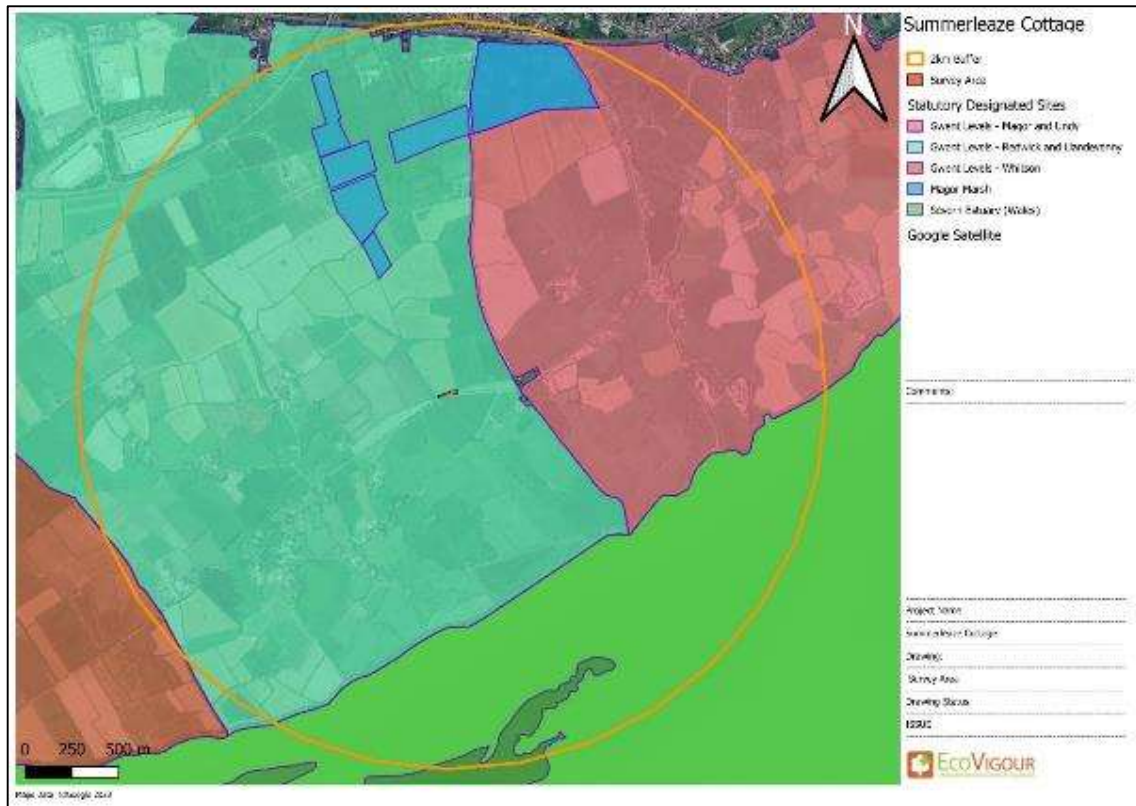
## 4 RESULTS & ANALYSIS – DESK STUDY

### 4.1 DESIGNATED SITES

4.1.1 There are 8no. statutory designated sites within 2km of the site boundary.

**Table 2: Statutory Sites**

| Site Name                            | Designation | Reason for Designation | Distance from Site (m) |
|--------------------------------------|-------------|------------------------|------------------------|
| Gwent Levels- Redwick and Llandeenny | SSSI        | Biological             | 0m                     |
| Gwent Levels- Magor and Undy         | SSSI        | Biological             | 332m                   |
| Severn Estuary                       | Ramsar      | Biological             | 1088m                  |
| Severn Estuary                       | SAC         | Biological             | 1088m                  |
| Severn Estuary                       | SPA         | Biological             | 1088m                  |
| Severn Estuary                       | SSSI        | Biological             | 1088m                  |
| Magor Marsh                          | SSSI        | Biological             | 1400m                  |
| Gwent Levels- Whitson                | SSSI        | Biological             | 1939m                  |



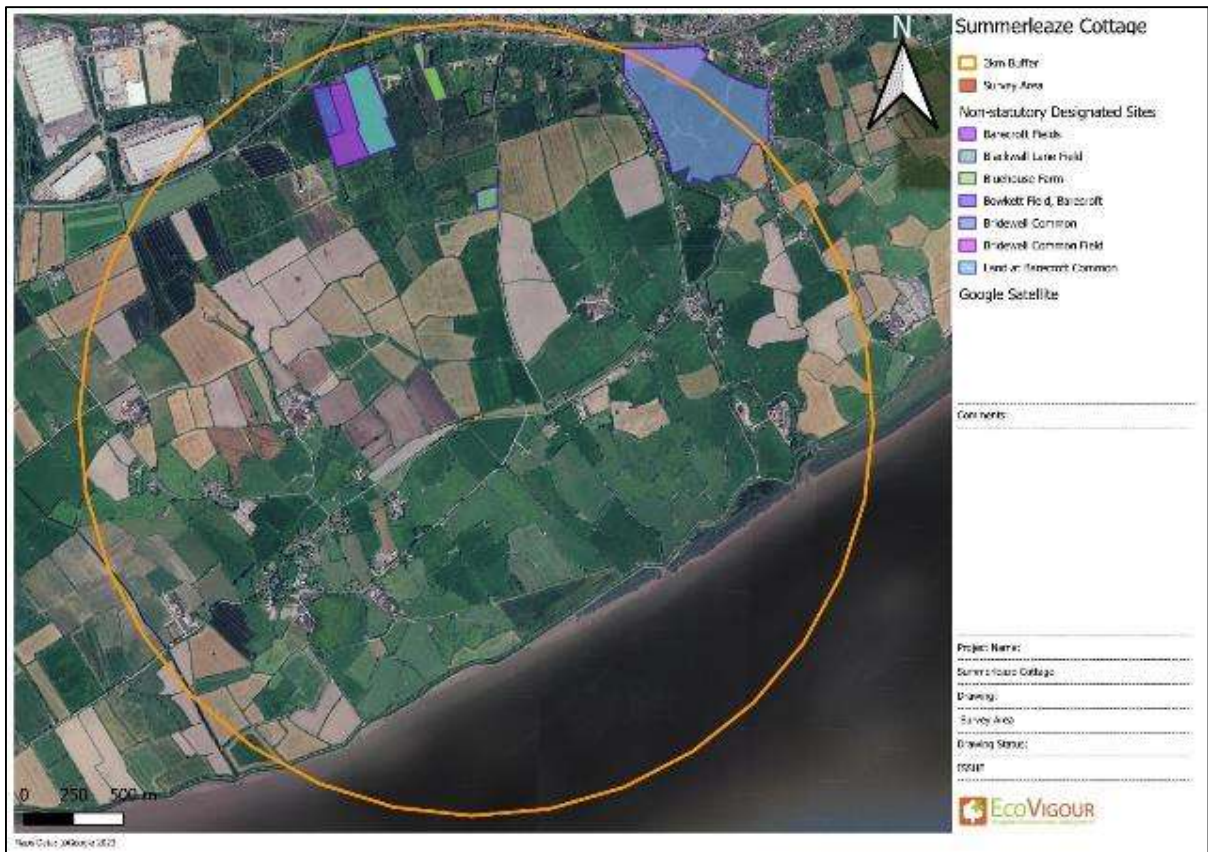
**Figure 2: Statutory Sites within 2km.**



4.1.2 There are 9 non-statutorily designated sites within 2km of the site boundary, all to the north. These are all Sites of Importance for Nature Conservation or Gwent Wildlife Trust reserves. The development site sits wholly within a B-line: a non-statutory designation designed to provide habitat connectivity for invertebrates.

**Table 3: Non-Statutory Sites**

| Site Name                | Designation            | Reason for Designation | Distance from Site (m) |
|--------------------------|------------------------|------------------------|------------------------|
| B-line                   | -                      | Biological             | 0                      |
| Magor Marsh              | Wildlife Trust Reserve | Biological             | 730m                   |
| Blackwall Lane Field     | SINC                   | Biological             | 1048m                  |
| Land at Barecroft Common | SINC                   | Biological             | 1430m                  |
| Barecroft Fields         | SINC                   | Biological             | 1430m                  |
| Bridewell Common         | Wildlife Trust Reserve | Biological             | 1581m                  |
| Bowkett Field, Barecroft | SINC                   | Biological             | 1592m                  |
| Bluehouse Farm           | SINC                   | Biological             | 1608m                  |
| Bridewell Common Field   | SINC                   | Biological             | 1907m                  |



**Figure 3- Non-statutory sites**



## 4.2 ANCIENT WOODLAND

4.2.1 There are no records of ancient woodlands within 2km of the sites.

## 4.3 WATERBODIES

4.3.1 The landscape around Summerleaze Cottage is flat and close to or below sea-level. Property boundaries and fields are delineated by hedges but these are usually associated with ditches, reens or streams.

4.3.2 The difference between these is small and relates to size. Ditches are small, and unnamed; reens are larger, may be named, and act as main drains collecting water from ditches and directing it into streams and rivers. Some reens are similar in size to rivers.

4.3.3 The main watercourse of concern is Whitewall reen, which flows directly adjacent to the site's northern boundary.



Figure 4: Watercourses within 500m.

## 4.4 SPECIES

4.4.1 A total of 4527 species records were identified in the biological records search information. Of these:

- ◆ 2650 were of Priority Species;
- ◆ Species of Conservation Concern; and
- ◆ Locally Important Species.



4.4.2 There was a total of 178 records of invasive non-native species.

4.4.3 The closest records were of birds: starling (*Sturnus vulgaris*), fieldfare (*Turdus pilaris*) within 105m and lapwing (*Vanellus vanellus*) within 135m of the site.

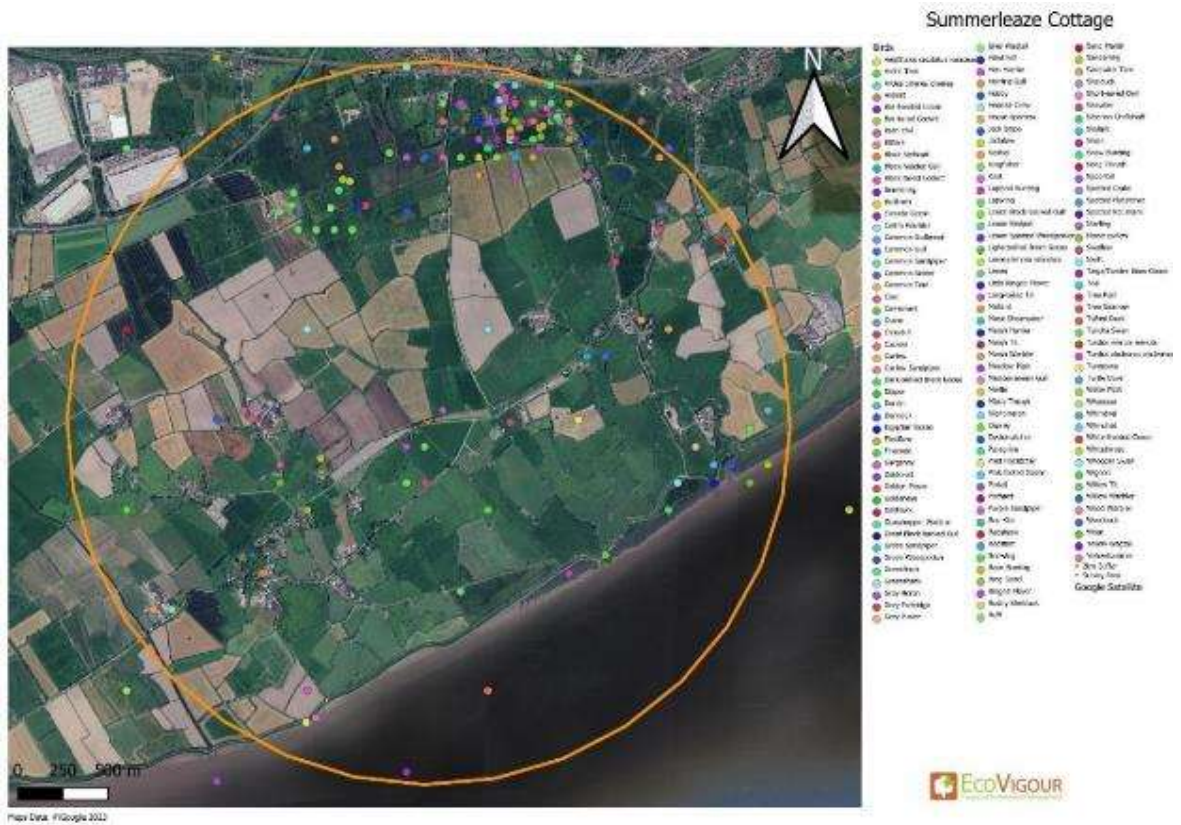
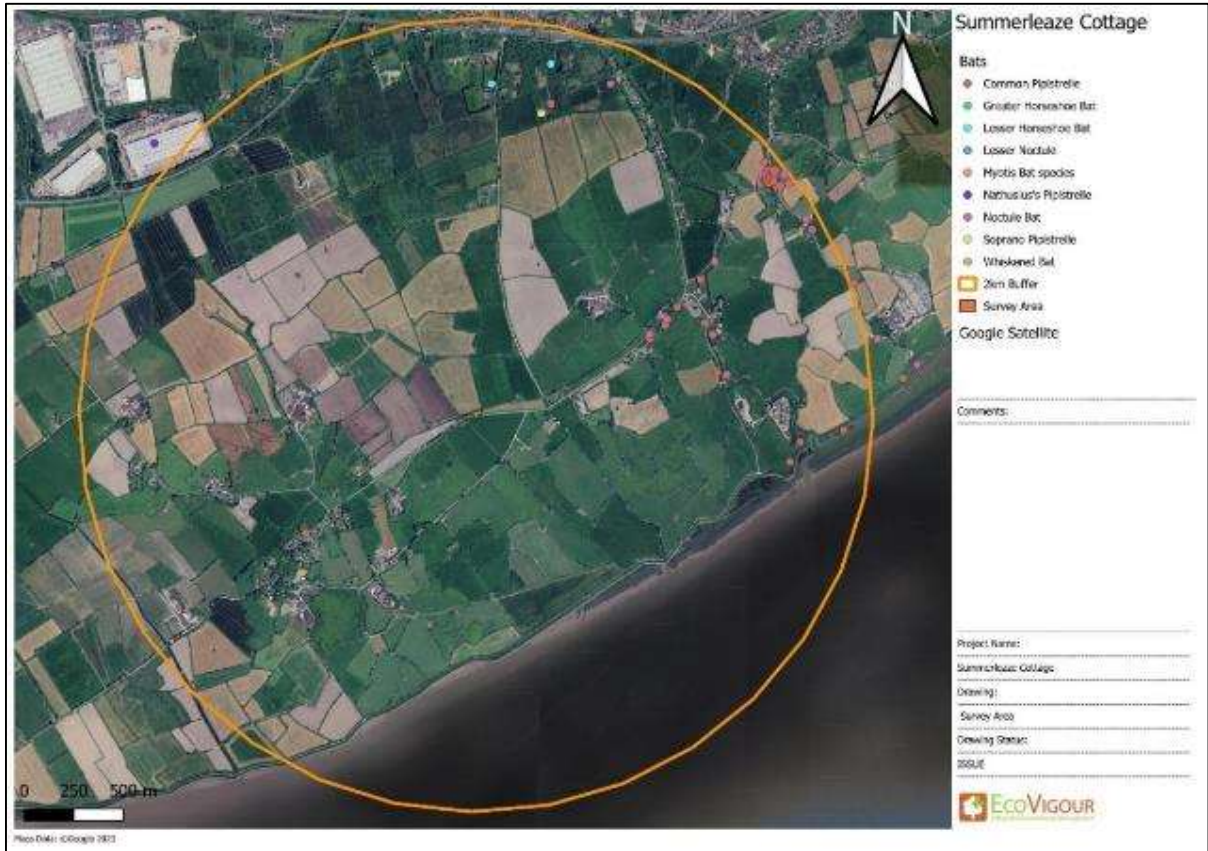


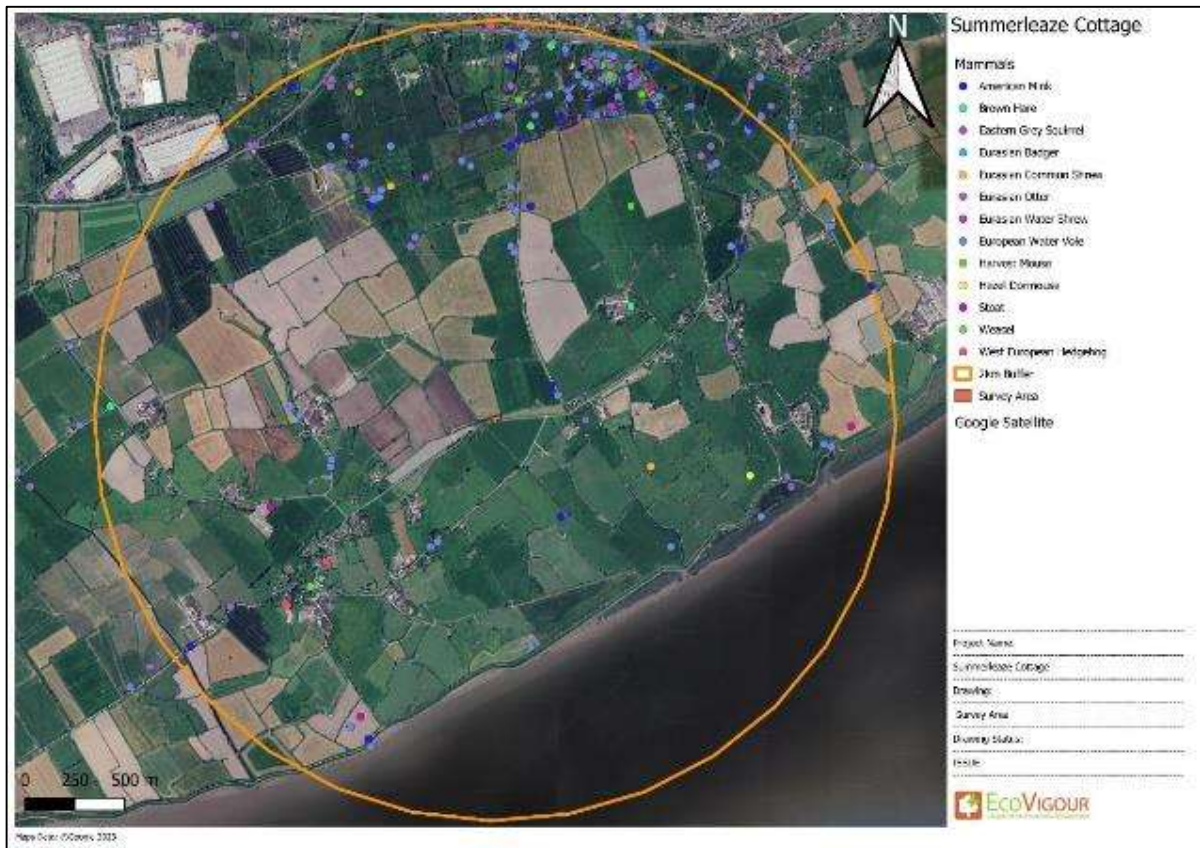
Figure 5: Bird Species Records

4.4.4 The closest record of a European protected species was of an unclassified bat (likely of *pipistrelle Pipistrelle* sp.) roost in a building within 200m of the development site.



**Figure 6: Bat records within proximity to structure.**

4.4.5 A range of mammal species (other than bats) were identified in the data search results with the closest being of otter (*Lutra lutra*), water vole (*Arvicola amphibius*) and American mink (*Neovision vison*) in a watercourse 324m to the south east.



**Figure 7: Terrestrial Mammal Species Records.**

- 4.4.6 A number of records of reptiles and amphibians were returned. These are summarised at Figure 12.
- 4.4.7 The closest amphibian was a smooth newt 254m to the south of the site.
- 4.4.8 The closest reptile records were of adder and grass snake from 1500m to the north east.



**Figure 8: Reptiles & Amphibian Species**

4.4.9 The species list includes a larger than perhaps usual number of invertebrates and aquatic macrophytes; this is reflective of the quality of the aquatic habitats found on the Gwent levels, hence the designation of so many Sites of Special Scientific Interest in the area.

4.4.10 A list of the protected species in the data search results is at **Appendix B**.

## 5 RESULTS & ANALYSIS – FIELD WORK

### 5.1 HABITAT SURVEY

5.1.1 To the west of the cottage the habitat (Plate 5) was dominated by tall ruderal vegetation consisting of two main dominant species, spiny plumeless thistle (*Carduus acanthoides*) and great willowherb (*Epilobium hirsutum*) with cow parsley (*Anthriscus sylvestris*) and common nettle (*Urtica dioica*). A number of species more usually found in more open ground were recorded closer to the cottage such as herb Robert (*Geranium robertianum*) and cleavers (*Galium aparine*).

5.1.2 The grassland area to the east (Plate 7) appeared to be more indicative of overgrown lawn and had a range of species present including perennial ryegrass (*Lolium perenne*), common bent (*Agrostis capillaris*), cock's-foot (*Dactylis glomerata*), creeping buttercup (*Ranunculus repens*), great willowherb, dandelion (*Taraxacum officinale* agg.), common nettle, cow parsley, hogweed (*Heracleum sphondylium*), broad-leaved dock (*Rumex obtusifolius*), elm (*Ulmus* sp.), hedge wound-wort (*Stachys sylvatica*) and cut-leaved cranesbill (*Geranium*



*dissectum*).

- 5.1.3 There was a large area of bare ground (Plates 7 & 8) to the east of the cottage created as a result of clearance and a bonfire. There is also the remains of a bonfire (Plates 8 & 9) where an attempt has been made to burn brash, presumably arising from the clearance.
- 5.1.4 The hedgerow between the property and the road was dominated by hawthorn (*Crataegus monogyna*) and bramble (*Rubus fruticosus* agg.).
- 5.1.5 The reën (Plate 6) along the northern boundary was largely overhung by bankside vegetation and was difficult to observe safely. Bankside vegetation was dominated by ruderal species such as great willowherb and water dropwort (*Oenanthe* sp.). Pond sedge (*Carex riparia*) was the only identified emergent macrophyte.
- 5.1.6 The surrounding habitat types mainly consist of arable fields and cutting grass which are dominated by perennial ryegrass.

## 5.2 SPECIES

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### ***Bat Species (Chiroptera)***

- 5.1.1 The PRA completed by Ecovigour deemed the site to be of 'low' potential for roosting bats. A single dusk emergence survey was recommended and carried out, with no bats seen to emerge from, return to or otherwise take any interest in the property. The survey is reported under separate cover.

### ***Dormouse (Muscardinus avellanarius)***

- 5.2.1 There are records of dormouse in the records search. However, the habitats on and adjacent to the site appear to be generally sub-optimal for this species with poor connectivity to other suitable habitat. It is therefore considered unlikely that they will be present on the site.
- 5.2.2 No further surveys are necessary unless there is a requirement to remove the roadside hedge in which case a pre-commencement check of the vegetation to be affected will be required. Should evidence of dormice be found, mitigation and a licence from NRW will be required.

### ***Great crested newt (Triturus cristatus)***

- 5.2.3 There are no records of this species from the Gwent Levels and it is considered that the habitats are generally unsuitable for it.
- 5.2.4 There is no requirement for any further ecological survey, mitigation or licensing in respect of great crested newts.

### ***Otter (Lutra lutra)***

- 5.2.5 No evidence of this species was recorded from the site, likely due to the dense vegetation and inability to get close to the reën itself.
- 5.2.6 However, otters are known to be in the area, and should be assumed to use the reën for foraging, commuting and dispersal. It is therefore possible that they could use the terrestrial habitats on the development site for sheltering and lying up.



- 5.2.7 A more detailed assessment of the site and surrounding area (to 500m up and down stream of the development site) in respect of this species is recommended if the development proposals are likely to impact on otters or their habitat. If otters are found to be using the site, mitigation and a licence from NRW will be required prior to any work commencing.
- 5.2.8 Even if otter presence is not proved by the site survey, a pre-commencement check of the site should be carried out no more than 24 hours in advance of any work starting. Site clearance must undertaken in accordance with a method statement and under ecological supervision to ensure that no harm comes to animals.

#### ***Badger (Meles meles)***

- 5.2.9 No evidence of this species was observed on the proposed development site.
- 5.2.10 Given the nature of the site, low lying and close to the water table, it is considered unlikely that this species would be able to excavate setts on the site.
- 5.2.11 Therefore, given the nature of the site and lack of evidence it is considered that badgers will not use it and that therefore no further surveys, mitigation or licensing are required.

#### ***Water vole (Arvicola amphibius)***

- 5.2.12 The reed provides suitable habitat for this species; however, no evidence was observed on the site largely due to the overgrown banks preventing safe access to the channel to be able to examine it in detail.
- 5.2.13 There are multiple records of this species in the area and their presence in the reed for foraging, commuting and dispersal purposes is likely. They may also excavate burrows in the banks. A water vole survey is recommended if any development proposals could impact on the reed, the bankside vegetation and potential burrow locations.
- 5.2.14 In the event that water voles are present and could be affected by any development, mitigation and a licence from NRW will be required prior to any work commencing.

#### ***Birds***

- 5.2.15 No nesting birds were observed on the structure itself or anywhere else on the development site.
- 5.2.16 The habitats on the site are considered to be unsuitable for ground nesting species as the site is small with very dense tall ruderal vegetation. It is also overlooked by taller vegetation which provide predator perches.
- 5.2.17 The roadside hedge is suitable for shrub nesting species; these should be assumed to be present during the breeding season (April – August).
- 5.2.18 A full bird survey is considered unnecessary; however mitigation will be required and will require site clearance to be undertaken outwith the main nesting season (i.e. between September and April inclusive). A pre-clearance check is still recommended as breeding is possible at almost any time of year.
- 5.2.19 If this is not possible, clearance can be undertaken during the nesting season as long as suitable vegetation scheduled for removal is checked by a suitably experienced ecologist no more than 24 hours in advance of any works commencing. Any active nest found will be left *in situ* with a minimum 5m buffer of retained vegetation around it until the nest has been vacated naturally at which point the nest can be removed and clearance completed.



### ***Amphibians***

- 5.2.20 No amphibians were observed during the site visit.
- 5.2.21 However, the reed on the northern boundary of the site provides suitable breeding habitat for common species of amphibian, all of which have been recorded in the area.
- 5.2.22 The terrestrial habitats on the development site all provide amphibians with suitable foraging and sheltering habitat for that part of the year when they are not in the water for breeding.
- 5.2.23 All vegetation removal should be undertaken in accordance with a method statement and under ecological supervision to ensure that animals are not harmed during site clearance.

### ***Reptiles***

- 5.2.24 No reptiles were observed on the development site during the site visit.
- 5.2.25 The habitats are suitable for all commonly found species although it is unlikely that adders would be found on the site.

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

- 5.2.26 No invasive non-native species (INNS) have been identified within the project footprint.

## **6 RECOMMENDATIONS**

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This section provides a broad assessment of the information gathered and scopes out potential ecological vectors before remaining considerations and actions are proposed in the following Recommendations and Opportunities sections below.

### **6.1 DESIGNATED SITES**

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- 6.1.1 Due to the site being within a SSSI and in close proximity to the Severn Estuary SAC, SPA and Ramsar site, a Habitats Regulations Assessment may be required; the need for this will be dependent on the nature of the development proposals. (Note: the Local Planning Authority may carry this out themselves). SSSI assent may be required if the property is part of the SSSI or if the proposals might affect the SSSI.
- 6.1.2 Mitigation is likely to be required to ensure that the conservation status of the SSSI (and possibly other sites) as well as any protected or priority species is not impacted; the nature of any mitigation will be dependent on any confirmed development proposals.

### **6.2 HABITATS**

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- 6.2.1 Vegetation clearance may be required to facilitate the development of the site. However, the extent of the clearance required is as yet unknown. It is also likely that the garden areas will be re-established as part of the development resulting in the loss of the ruderal vegetation.

- 6.2.2 It is therefore recommended that

- ◆ vegetation clearance is undertaken in such a way as to minimise harm to any fauna that may be using the



- area;
- ◆ that the development retains dense vegetation along the reed bank; and
- ◆ that the development includes measures designed to provide biodiversity enhancements to benefit amphibians, reptiles and birds.

### 6.3 SPECIES

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#### ***Bats***

- 6.3.1 No further surveys or ecological measures are required in respect of this species.

#### ***Dormouse***

- 6.3.2 No further ecological surveys or measures or are required unless the development proposals indicate that the roadside hedge will be affected.
- 6.3.3 It should be noted that the development site is too small for a meaningful dormouse survey to be carried out. Any assessment would have to be based on a habitat assessment as there is no hazel present which would otherwise provide habitat for a “nut hunt”. Therefore, any clearance will have to be undertaken in accordance with a method statement and under ecological supervision.

#### ***Great Crested Newt***

- 6.3.4 No further ecological surveys or measures or are required in respect of this species.

#### ***Water vole***

- 6.3.5 This species is confirmed to be present within 500m of the development site and is likely to be present.
- 6.3.6 It is recommended that if any development proposals require working within 5m of the reed a survey for this species is likely to be required. If water voles are confirmed to be present, then a licence will be required from NRW.

#### ***Bird Species***

- 6.3.7 Following best practice, if vegetation clearance is required during the main bird breeding season, any vegetation scheduled to be removed must be checked by a suitably experienced ecologist for active nests no more than 24 hours in advance of the start of works.
- 6.3.8 If nests are present, then no de-vegetation or other heavy machinery work should be carried out within a 5m exclusion zone(s) until it is confirmed that the nest(s) is vacated naturally.

#### ***Amphibians***

- 6.3.9 The development site provides suitable habitat for this group; it is considered that the site is too small to be surveyed with any confidence in the results and that no proof of absence would be possible. The presence of the common species of amphibians should be assumed.
- 6.3.10 Therefore, it is recommended that any site clearance should be undertaken in accordance with a method statement based on habitat denial and under ecological supervision. A method statement will be provided on receipt of final development proposals.



## **Reptiles**

- 6.3.11 The development site provides suitable habitat for this group; it is considered that the site is too small to be surveyed with any confidence in the results and that no proof of absence would be possible. The presence of the common species of amphibians should be assumed.
- 6.3.12 Therefore, it is recommended that any site clearance should be undertaken in accordance with a method statement based on habitat denial and under ecological supervision. A method statement will be provided on receipt of final development proposals.

## **Other Species**

### *Hedgehog*

- 6.3.13 Hedgehogs are protected in England under Schedule 6 of the Wildlife and Countryside Act (1981) and are also listed under Section 41 of the Natural Environment and Rural Communities (NERC) Act (2006). This species has not been confirmed but is likely present within the wider area.
- 6.3.14 Site clearance will have to be undertaken in accordance with a method statement to ensure that animals are not harmed or killed.

## **6.4 INVASIVE SPECIES**

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- 6.4.1 No invasive species were identified on the site. Any such species which are subsequently found on the site will be demarcated and reported to an ecologist to provide guidance.

## **6.5 WORKING NEAR OF IN A WATERCOURSE OR OPEN DRAINAGE**

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- 6.5.1 All works near any watercourse will be conducted in line with industry standard best practice, *Guidance for Pollution Prevention (GPPs)*. This will avoid the risk of polluting the watercourse through chemical contamination or substrate run off. This includes:
- ◆ There will be no working within 5m of a watercourse or ditch without any and all appropriate consents being in place. All work on the proposed development site will be undertaken in accordance with relevant NRW / Environment Agency guidance on working in proximity to a watercourse / ditch / water source;
  - ◆ The free flow of water along watercourses / ditches will be ensured at all times during the construction phase. Should this not be possible, an appropriate method statement and methodology for an alternative will be proposed and approved prior to any construction commencing;
  - ◆ There will be no direct lighting of watercourses / ditches, following construction and development;
  - ◆ There will be no night working within 5m of the reed;
  - ◆ Sediment trapping device (e.g. silt fencing) will be provided and used to prevent sediment runoff during the construction phase of the development;
  - ◆ The use of flocculent should be considered as part of the design process so that the relevant permits may be applied for in advance of work commencing if required;
  - ◆ Designated areas will be provided for parking, washing facilities, refuelling, storage of fuels, oils, lubricants and materials e.g. cement, concrete, bentonite clay;
  - ◆ Drip trays to be placed under all stationary, parked plant, machinery and vehicles during the construction period;
  - ◆ Storage of fuels and other liquids will only be in bunded (to 110%) containers;
  - ◆ All plant, machinery and vehicles to be inspected for leaks and malfunctions on a daily basis;
  - ◆ All plant and machinery to be washed down after leaving the previous contract site and before entering the compound / work site for the first time;
  - ◆ Cessation of work during high rainfall periods to ensure mitigation measures are not overwhelmed;



- ◆ Spill kits and other pollution restricting measures (and appropriate training for personnel) will be provided and kept available on site during the construction period;
- ◆ All construction activities will be subject to the use of activity specific permits linked to risk assessments and a risk register wherever necessary; and
- ◆ Water quality in all watercourses will be monitored daily to check for discolouration, sediment, turbidity and fuels, oils and lubricants as well as any other chemicals for which COSHH sheets are required which could feasibly enter any such watercourse.

Consideration should be given to: the use of closed sewerage systems in the development; and the inclusion of sustainable drainage systems e.g. rain gardens.

- 6.5.2 Toolbox talks can be used to inform personnel undertaking works on the correct site protocol with regards to refuelling and general site behaviour (**i.e. No refuelling on site, all equipment stored on spill nappies, no night works and no materials to be left on site**)

## 7 TARGETED ECOLOGICAL ENHANCEMENTS

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- 7.1.1 Within the general area and the immediate area surrounding the structure is suitable for bat activity. It would be a local population benefit if bat boxes could be placed on the surrounding trees.
- 7.1.2 Hibernacula should be left to remain, or added to from vegetation clearance works, to benefit a range of species including invertebrates, amphibians/reptiles, and small mammals.

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APPENDIX A - SITE PHOTOGRAPHS

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*Plate 1: The western end of the development site*



*Plate 2: Open water in the overgrown Whitewall Reen*



*Plate 3: Summerleaze Cottage and the eastern end of the development site*



*Plate 4 – area of bare ground*



*Plate 5: Potential habitat pile/hibernacula*

## APPENDIX B – SPECIES LIST

| Scientific name                     | Common name                  | Taxon | Conservation Status             |
|-------------------------------------|------------------------------|-------|---------------------------------|
| <i>Acanthis cabaret</i>             | Lesser Redpoll               | Birds | Priority Species                |
| <i>Accipiter gentilis</i>           | Goshawk                      | Birds | Priority Species                |
| <i>Acrocephalus palustris</i>       | Marsh Warbler                | Birds | Priority Species                |
| <i>Actitis hypoleucos</i>           | Common Sandpiper             | Birds | Species of Conservation Concern |
| <i>Aegithalos caudatus rosaceus</i> | Aegithalos caudatus rosaceus | Birds | Species of Conservation Concern |
| <i>Aegithalos caudatus</i>          | Long-tailed Tit              | Birds | Species of Conservation Concern |
| <i>Alauda arvensis</i>              | Skylark                      | Birds | Priority Species                |
| <i>Alcedo atthis</i>                | Kingfisher                   | Birds | Priority Species                |
| <i>Alopochen aegyptiaca</i>         | Egyptian Goose               | Birds | Other Species                   |
| <i>Anas acuta</i>                   | Pintail                      | Birds | Priority Species                |
| <i>Anas crecca</i>                  | Teal                         | Birds | Species of Conservation Concern |
| <i>Anas platyrhynchos</i>           | Mallard                      | Birds | Species of Conservation Concern |
| <i>Anser albifrons</i>              | White-fronted Goose          | Birds | Priority Species                |
| <i>Anser brachyrhynchus</i>         | Pink-footed Goose            | Birds | Locally Important Species       |
| <i>Anser fabialis/serrirostris</i>  | Taiga/Tundra Bean Goose      | Birds | Locally Important Species       |
| <i>Anser indicus</i>                | Bar-headed Goose             | Birds | Other Species                   |
| <i>Anthus pratensis</i>             | Meadow Pipit                 | Birds | Species of Conservation Concern |
| <i>Anthus spinoletta</i>            | Water Pipit                  | Birds | Locally Important Species       |
| <i>Anthus trivialis</i>             | Tree Pipit                   | Birds | Priority Species                |
| <i>Apus apus</i>                    | Swift                        | Birds | Species of Conservation Concern |
| <i>Ardea cinerea cinerea</i>        | Ardea cinerea cinerea        | Birds | Species of Conservation Concern |
| <i>Ardea cinerea</i>                | Grey Heron                   | Birds | Species of Conservation Concern |
| <i>Arenaria interpres</i>           | Turnstone                    | Birds | Species of Conservation Concern |
| <i>Asio flammeus</i>                | Short-eared Owl              | Birds | Species of Conservation Concern |
| <i>Aythya ferina</i>                | Pochard                      | Birds | Species of Conservation Concern |
| <i>Aythya fuligula</i>              | Tufted Duck                  | Birds | Species of Conservation Concern |
| <i>Botaurus stellaris</i>           | Bittern                      | Birds | Priority Species                |
| <i>Branta bernicla bernicla</i>     | Dark-bellied Brent Goose     | Birds | Priority Species                |
| <i>Branta bernicla hrota</i>        | Light-bellied Brent Goose    | Birds | Locally Important Species       |
| <i>Branta canadensis</i>            | Canada Goose                 | Birds | Other Species                   |
| <i>Bucephala clangula</i>           | Goldeneye                    | Birds | Priority Species                |
| <i>Burhinus oedicnemus</i>          | Stone-curlew                 | Birds | Priority Species                |
| <i>Calcarius lapponicus</i>         | Lapland Bunting              | Birds | Priority Species                |
| <i>Calidris alba</i>                | Sanderling                   | Birds | Species of Conservation Concern |
| <i>Calidris alpina</i>              | Dunlin                       | Birds | Species of Conservation Concern |
| <i>Calidris canutus</i>             | Knot                         | Birds | Species of Conservation Concern |
| <i>Calidris ferruginea</i>          | Curlew Sandpiper             | Birds | Species of Conservation Concern |
| <i>Calidris maritima</i>            | Purple Sandpiper             | Birds | Priority Species                |
| <i>Calidris pugnax</i>              | Ruff                         | Birds | Priority Species                |
| <i>Cettia cetti</i>                 | Cetti's Warbler              | Birds | Priority Species                |
| <i>Charadrius dubius</i>            | Little Ringed Plover         | Birds | Priority Species                |
| <i>Charadrius hiaticula</i>         | Ringed Plover                | Birds | Priority Species                |
| <i>Charadrius morinellus</i>        | Dotterel                     | Birds | Priority Species                |
| <i>Chloris chloris</i>              | Greenfinch                   | Birds | Species of Conservation Concern |



| Scientific name                      | Common name               | Taxon | Conservation Status             |
|--------------------------------------|---------------------------|-------|---------------------------------|
| <i>Chroicocephalus ridibundus</i>    | Black-headed Gull         | Birds | Priority Species                |
| <i>Cinclus cinclus</i>               | Dipper                    | Birds | Species of Conservation Concern |
| <i>Circus aeruginosus</i>            | Marsh Harrier             | Birds | Priority Species                |
| <i>Circus cyaneus</i>                | Hen Harrier               | Birds | Priority Species                |
| <i>Coccothraustes coccothraustes</i> | Hawfinch                  | Birds | Priority Species                |
| <i>Coloeus monedula</i>              | Jackdaw                   | Birds | Locally Important Species       |
| <i>Corvus cornix</i>                 | Hooded Crow               | Birds | Species of Conservation Concern |
| <i>Cuculus canorus</i>               | Cuckoo                    | Birds | Priority Species                |
| <i>Curruca communis</i>              | Whitethroat               | Birds | Species of Conservation Concern |
| <i>Cygnus columbianus</i>            | Tundra Swan               | Birds | Priority Species                |
| <i>Cygnus cygnus</i>                 | Whooper Swan              | Birds | Priority Species                |
| <i>Dryobates minor</i>               | Lesser Spotted Woodpecker | Birds | Priority Species                |
| <i>Emberiza citrinella</i>           | Yellowhammer              | Birds | Priority Species                |
| <i>Emberiza schoeniclus</i>          | Reed Bunting              | Birds | Priority Species                |
| <i>Falco columbarius</i>             | Merlin                    | Birds | Priority Species                |
| <i>Falco peregrinus</i>              | Peregrine                 | Birds | Priority Species                |
| <i>Falco subbuteo</i>                | Hobby                     | Birds | Priority Species                |
| <i>Falco tinnunculus</i>             | Kestrel                   | Birds | Priority Species                |
| <i>Ficedula hypoleuca</i>            | Pied Flycatcher           | Birds | Priority Species                |
| <i>Fringilla montifringilla</i>      | Brambling                 | Birds | Priority Species                |
| <i>Fulica atra</i>                   | Coot                      | Birds | Species of Conservation Concern |
| <i>Gallinago gallinago</i>           | Snipe                     | Birds | Species of Conservation Concern |
| <i>Grus grus</i>                     | Crane                     | Birds | Locally Important Species       |
| <i>Haematopus ostralegus</i>         | Oystercatcher             | Birds | Species of Conservation Concern |
| <i>Hirundo rustica</i>               | Swallow                   | Birds | Species of Conservation Concern |
| <i>Ichthyaetus melanocephalus</i>    | Mediterranean Gull        | Birds | Priority Species                |
| <i>Larus argentatus</i>              | Herring Gull              | Birds | Priority Species                |
| <i>Larus canus</i>                   | Common Gull               | Birds | Species of Conservation Concern |
| <i>Larus fuscus</i>                  | Lesser Black-backed Gull  | Birds | Species of Conservation Concern |
| <i>Larus marinus</i>                 | Great Black-backed Gull   | Birds | Species of Conservation Concern |
| <i>Limosa lapponica</i>              | Bar-tailed Godwit         | Birds | Priority Species                |
| <i>Limosa limosa islandica</i>       | Limosa limosa islandica   | Birds | Priority Species                |
| <i>Limosa limosa</i>                 | Black-tailed Godwit       | Birds | Priority Species                |
| <i>Linaria cannabina</i>             | Linnet                    | Birds | Priority Species                |
| <i>Locustella naevia</i>             | Grasshopper Warbler       | Birds | Priority Species                |
| <i>Loxia curvirostra</i>             | Crossbill                 | Birds | Priority Species                |
| <i>Lymnocyptes minimus</i>           | Jack Snipe                | Birds | Species of Conservation Concern |
| <i>Mareca penelope</i>               | Wigeon                    | Birds | Species of Conservation Concern |
| <i>Melanitta nigra</i>               | Common Scoter             | Birds | Priority Species                |
| <i>Milvus milvus</i>                 | Red Kite                  | Birds | Priority Species                |
| <i>Motacilla cinerea</i>             | Grey Wagtail              | Birds | Species of Conservation Concern |
| <i>Motacilla flava flavissima</i>    | Yellow Wagtail            | Birds | Priority Species                |
| <i>Motacilla flava</i>               | Yellow Wagtail            | Birds | Priority Species                |
| <i>Muscicapa striata</i>             | Spotted Flycatcher        | Birds | Priority Species                |
| <i>Numenius arquata</i>              | Curlew                    | Birds | Priority Species                |
| <i>Numenius phaeopus</i>             | Whimbrel                  | Birds | Priority Species                |





| Scientific name                       | Common name          | Taxon | Conservation Status             |
|---------------------------------------|----------------------|-------|---------------------------------|
| <i>Nycticorax nycticorax</i>          | Night-heron          | Birds | Other Species                   |
| <i>Oenanthe oenanthe</i>              | Wheatear             | Birds | Species of Conservation Concern |
| <i>Pandion haliaetus</i>              | Osprey               | Birds | Priority Species                |
| <i>Passer domesticus</i>              | House Sparrow        | Birds | Priority Species                |
| <i>Passer montanus</i>                | Tree Sparrow         | Birds | Priority Species                |
| <i>Perdix perdix</i>                  | Grey Partridge       | Birds | Priority Species                |
| <i>Pernis apivorus</i>                | Honey-buzzard        | Birds | Priority Species                |
| <i>Phalacrocorax carbo</i>            | Cormorant            | Birds | Species of Conservation Concern |
| <i>Phoenicurus ochruros</i>           | Black Redstart       | Birds | Priority Species                |
| <i>Phoenicurus phoenicurus</i>        | Redstart             | Birds | Species of Conservation Concern |
| <i>Phylloscopus collybita tristis</i> | Siberian Chiffchaff  | Birds | Locally Important Species       |
| <i>Phylloscopus sibilatrix</i>        | Wood Warbler         | Birds | Priority Species                |
| <i>Phylloscopus trochilus</i>         | Willow Warbler       | Birds | Species of Conservation Concern |
| <i>Picus viridis</i>                  | Green Woodpecker     | Birds | Species of Conservation Concern |
| <i>Platalea leucorodia</i>            | Spoonbill            | Birds | Priority Species                |
| <i>Plectrophenax nivalis</i>          | Snow Bunting         | Birds | Priority Species                |
| <i>Pluvialis apricaria</i>            | Golden Plover        | Birds | Priority Species                |
| <i>Pluvialis squatarola</i>           | Grey Plover          | Birds | Species of Conservation Concern |
| <i>Poecile montanus</i>               | Willow Tit           | Birds | Priority Species                |
| <i>Poecile palustris</i>              | Marsh Tit            | Birds | Priority Species                |
| <i>Porzana porzana</i>                | Spotted Crane        | Birds | Priority Species                |
| <i>Prunella modularis</i>             | Dunnock              | Birds | Priority Species                |
| <i>Puffinus puffinus</i>              | Manx Shearwater      | Birds | Species of Conservation Concern |
| <i>Pyrrhula pyrrhula</i>              | Bullfinch            | Birds | Priority Species                |
| <i>Recurvirostra avosetta</i>         | Avocet               | Birds | Priority Species                |
| <i>Regulus ignicapilla</i>            | Firecrest            | Birds | Priority Species                |
| <i>Regulus regulus</i>                | Goldcrest            | Birds | Species of Conservation Concern |
| <i>Riparia riparia</i>                | Sand Martin          | Birds | Species of Conservation Concern |
| <i>Saxicola rubetra</i>               | Whinchat             | Birds | Species of Conservation Concern |
| <i>Scolopax rusticola</i>             | Woodcock             | Birds | Species of Conservation Concern |
| <i>Spatula clypeata</i>               | Shoveler             | Birds | Species of Conservation Concern |
| <i>Spatula querquedula</i>            | Garganey             | Birds | Priority Species                |
| <i>Sterna hirundo</i>                 | Common Tern          | Birds | Species of Conservation Concern |
| <i>Sterna paradisaea</i>              | Arctic Tern          | Birds | Species of Conservation Concern |
| <i>Streptopelia turtur</i>            | Turtle Dove          | Birds | Priority Species                |
| <i>Sturnus vulgaris</i>               | Starling             | Birds | Priority Species                |
| <i>Tadorna ferruginea</i>             | Ruddy Shelduck       | Birds | Other Species                   |
| <i>Tadorna tadorna</i>                | Shelduck             | Birds | Species of Conservation Concern |
| <i>Thalasseus sandvicensis</i>        | Sandwich Tern        | Birds | Species of Conservation Concern |
| <i>Tringa erythropus</i>              | Spotted Redshank     | Birds | Species of Conservation Concern |
| <i>Tringa nebularia</i>               | Greenshank           | Birds | Priority Species                |
| <i>Tringa ochropus</i>                | Green Sandpiper      | Birds | Priority Species                |
| <i>Tringa totanus</i>                 | Redshank             | Birds | Species of Conservation Concern |
| <i>Troglodytes troglodytes</i>        | Wren                 | Birds | Locally Important Species       |
| <i>Turdus iliacus</i>                 | Redwing              | Birds | Priority Species                |
| <i>Turdus merula merula</i>           | Turdus merula merula | Birds | Locally Important Species       |



| Scientific name                     | Common name                  | Taxon                  | Conservation Status             |
|-------------------------------------|------------------------------|------------------------|---------------------------------|
| <i>Turdus philomelos</i>            | Song Thrush                  | Birds                  | Priority Species                |
| <i>Turdus pilaris</i>               | Fieldfare                    | Birds                  | Priority Species                |
| <i>Turdus torquatus</i>             | Ring Ouzel                   | Birds                  | Priority Species                |
| <i>Turdus viscivorus viscivorus</i> | Turdus viscivorus viscivorus | Birds                  | Species of Conservation Concern |
| <i>Turdus viscivorus</i>            | Mistle Thrush                | Birds                  | Species of Conservation Concern |
| <i>Tyto alba</i>                    | Barn Owl                     | Birds                  | Priority Species                |
| <i>Uria aalge</i>                   | Common Guillemot             | Birds                  | Species of Conservation Concern |
| <i>Vanellus vanellus</i>            | Lapwing                      | Birds                  | Priority Species                |
| <i>Amblystegium serpens</i>         | Creeping Feather-moss        | Bryophytes             | Locally Important Species       |
| <i>Campylopus introflexus</i>       | Heath Star Moss              | Bryophytes             | Other Species                   |
| <i>Fissidens taxifolius</i>         | Common Pocket-moss           | Bryophytes             | Locally Important Species       |
| <i>Hygroamblystegium humile</i>     | Constricted Feather-moss     | Bryophytes             | Species of Conservation Concern |
| <i>Hygroamblystegium varium</i>     | Willow Feather-moss          | Bryophytes             | Locally Important Species       |
| <i>Microeurhynchium pumilum</i>     | Dwarf Feather-moss           | Bryophytes             | Locally Important Species       |
| <i>Oxyrrhynchium speciosum</i>      | Showy Feather-moss           | Bryophytes             | Locally Important Species       |
| <i>Riccia fluitans</i>              | Floating Crystalwort         | Bryophytes             | Locally Important Species       |
| <i>Tortula muralis</i>              | Wall Screw-moss              | Bryophytes             | Locally Important Species       |
| <i>Anguilla anguilla</i>            | European Eel                 | Fish                   | Priority Species                |
| <i>Gadus morhua</i>                 | Atlantic Cod                 | Fish                   | Priority Species                |
| <i>Acronicta psi</i>                | Grey Dagger                  | Invertebrates (insect) | Priority Species                |
| <i>Acronicta rumicis</i>            | Knot Grass                   | Invertebrates (insect) | Priority Species                |
| <i>Agabus conspersus</i>            | Agabus conspersus            | Invertebrates (insect) | Species of Conservation Concern |
| <i>Agonopterix atomella</i>         | Greenweed Flat-body Moth     | Invertebrates (insect) | Priority Species                |
| <i>Agrochola lychnidis</i>          | Beaded Chestnut              | Invertebrates (insect) | Priority Species                |
| <i>Allophyes oxyacanthae</i>        | Green-brindled Crescent      | Invertebrates (insect) | Priority Species                |
| <i>Altica brevicollis</i>           | Altica brevicollis           | Invertebrates (insect) | Species of Conservation Concern |
| <i>Amphipyra tragopoginis</i>       | Mouse Moth                   | Invertebrates (insect) | Priority Species                |
| <i>Anaglyptus mysticus</i>          | Anaglyptus mysticus          | Invertebrates (insect) | Species of Conservation Concern |
| <i>Anagnota bicolor</i>             | Anagnota bicolor             | Invertebrates (insect) | Species of Conservation Concern |
| <i>Andrena pilipes</i>              | Black Mining Bee             | Invertebrates (insect) | Species of Conservation Concern |
| <i>Anoscopus albifrons</i>          | Anoscopus albifrons          | Invertebrates (insect) | Species of Conservation Concern |
| <i>Anoscopus albiger</i>            | Anoscopus albiger            | Invertebrates (insect) | Species of Conservation Concern |
| <i>Anthocoris visci</i>             | Anthocoris visci             | Invertebrates (insect) | Species of Conservation Concern |
| <i>Apamea remissa</i>               | Dusky Brocade                | Invertebrates (insect) | Priority Species                |
| <i>Arctia caja</i>                  | Garden Tiger                 | Invertebrates (insect) | Priority Species                |
| <i>Argynnis paphia</i>              | Silver-washed Fritillary     | Invertebrates (insect) | Locally Important Species       |
| <i>Aromia moschata</i>              | Musk Beetle                  | Invertebrates (insect) | Species of Conservation Concern |





| Scientific name                     | Common name                  | Taxon                  | Conservation Status             |
|-------------------------------------|------------------------------|------------------------|---------------------------------|
| <i>Asilus crabroniformis</i>        | Hornet Robberfly             | Invertebrates (insect) | Priority Species                |
| <i>Atethmia centrago</i>            | Centre-barred Sallow         | Invertebrates (insect) | Priority Species                |
| <i>Atheta basicornis</i>            | Atheta basicornis            | Invertebrates (insect) | Species of Conservation Concern |
| <i>Badister dilatatus</i>           | Badister dilatatus           | Invertebrates (insect) | Species of Conservation Concern |
| <i>Badister unipustulatus</i>       | Badister unipustulatus       | Invertebrates (insect) | Species of Conservation Concern |
| <i>Bagous lutulentus</i>            | Bagous lutulentus            | Invertebrates (insect) | Species of Conservation Concern |
| <i>Bagous tempestivus</i>           | Bagous tempestivus           | Invertebrates (insect) | Species of Conservation Concern |
| <i>Bembidion gilvipes</i>           | Bembidion gilvipes           | Invertebrates (insect) | Species of Conservation Concern |
| <i>Beris clavipes</i>               | Scarce Orange Legionnaire    | Invertebrates (insect) | Species of Conservation Concern |
| <i>Berosus affinis</i>              | Berosus affinis              | Invertebrates (insect) | Locally Important Species       |
| <i>Biblopectus spinosus</i>         | Biblopectus spinosus         | Invertebrates (insect) | Species of Conservation Concern |
| <i>Blemus discus</i>                | Blemus discus                | Invertebrates (insect) | Species of Conservation Concern |
| <i>Boloria euphrosyne</i>           | Pearl-bordered Fritillary    | Invertebrates (insect) | Priority Species                |
| <i>Bombus humilis</i>               | Brown-Banded Carder Bee      | Invertebrates (insect) | Priority Species                |
| <i>Bombus rupestris</i>             | Red-tailed (Hill) Cuckoo Bee | Invertebrates (insect) | Species of Conservation Concern |
| <i>Bombus sylvorum</i>              | Shrill Carder Bee            | Invertebrates (insect) | Priority Species                |
| <i>Brachylochia viminalis</i>       | Minor Shoulder-knot          | Invertebrates (insect) | Priority Species                |
| <i>Brachytron pratense</i>          | Hairy Dragonfly              | Invertebrates (insect) | Locally Important Species       |
| <i>Calamotropha paludella</i>       | Bulrush Veneer               | Invertebrates (insect) | Species of Conservation Concern |
| <i>Calopteryx splendens</i>         | Banded Demoiselle            | Invertebrates (insect) | Locally Important Species       |
| <i>Calopteryx</i>                   | Demoiselle damselflies       | Invertebrates (insect) | Locally Important Species       |
| <i>Cantharis nigra (=thoracica)</i> | Cantharis nigra (=thoracica) | Invertebrates (insect) | Locally Important Species       |
| <i>Caradrina morpheus</i>           | Mottled Rustic               | Invertebrates (insect) | Priority Species                |
| <i>Cassida nobilis</i>              | Cassida nobilis              | Invertebrates (insect) | Species of Conservation Concern |
| <i>Celastrina argiolus britanna</i> | Holly Blue                   | Invertebrates (insect) | Locally Important Species       |
| <i>Ceramica pisi</i>                | Broom Moth                   | Invertebrates (insect) | Priority Species                |
| <i>Ceriagrion tenellum</i>          | Small Red Damselfly          | Invertebrates (insect) | Locally Important Species       |
| <i>Chaetocnema confusa</i>          | Chaetocnema confusa          | Invertebrates (insect) | Species of Conservation Concern |
| <i>Chartoscirta cocksii</i>         | Chartoscirta cocksii         | Invertebrates (insect) | Species of Conservation Concern |
| <i>Cheilotrichia imbuta</i>         | Cheilotrichia imbuta         | Invertebrates (insect) | Species of Conservation Concern |
| <i>Chesias legatella</i>            | Streak                       | Invertebrates (insect) | Priority Species                |



| Scientific name               | Common name                    | Taxon                  | Conservation Status             |
|-------------------------------|--------------------------------|------------------------|---------------------------------|
| <i>Chiasmia clathrata</i>     | Latticed Heath                 | Invertebrates (insect) | Priority Species                |
| <i>Chlaenius nigricornis</i>  | Chlaenius nigricornis          | Invertebrates (insect) | Species of Conservation Concern |
| <i>Chloriona vasconica</i>    | Chloriona vasconica            | Invertebrates (insect) | Species of Conservation Concern |
| <i>Chlorops planifrons</i>    | Chlorops planifrons            | Invertebrates (insect) | Species of Conservation Concern |
| <i>Choleva glauca</i>         | Choleva glauca                 | Invertebrates (insect) | Species of Conservation Concern |
| <i>Chorisops nagatomii</i>    | Bright Four-spined Legionnaire | Invertebrates (insect) | Species of Conservation Concern |
| <i>Chrysolina haemoptera</i>  | Plantain Leaf Beetle           | Invertebrates (insect) | Species of Conservation Concern |
| <i>Cirrhia icteritia</i>      | Sallow                         | Invertebrates (insect) | Priority Species                |
| <i>Coenagrion pulchellum</i>  | Variable Damselfly             | Invertebrates (insect) | Locally Important Species       |
| <i>Coenonympha pamphilus</i>  | Small Heath                    | Invertebrates (insect) | Priority Species                |
| <i>Colobaea bifasciella</i>   | Colobaea bifasciella           | Invertebrates (insect) | Species of Conservation Concern |
| <i>Colobaea distincta</i>     | Colobaea distincta             | Invertebrates (insect) | Species of Conservation Concern |
| <i>Colobaea punctata</i>      | Colobaea punctata              | Invertebrates (insect) | Species of Conservation Concern |
| <i>Conocephalus dorsalis</i>  | Short-winged Cone-head         | Invertebrates (insect) | Locally Important Species       |
| <i>Conocephalus fuscus</i>    | Long-winged Cone-head          | Invertebrates (insect) | Locally Important Species       |
| <i>Corixa affinis</i>         | Corixa affinis                 | Invertebrates (insect) | Species of Conservation Concern |
| <i>Cupido minimus</i>         | Small Blue                     | Invertebrates (insect) | Priority Species                |
| <i>Dasytes plumbeus</i>       | Dasytes plumbeus               | Invertebrates (insect) | Species of Conservation Concern |
| <i>Demetrias imperialis</i>   | Demetrias imperialis           | Invertebrates (insect) | Species of Conservation Concern |
| <i>Diarsia rubi</i>           | Small Square-spot              | Invertebrates (insect) | Priority Species                |
| <i>Dicraeus scibilis</i>      | Dicraeus scibilis              | Invertebrates (insect) | Species of Conservation Concern |
| <i>Dicraeus tibialis</i>      | Dicraeus tibialis              | Invertebrates (insect) | Species of Conservation Concern |
| <i>Diloba caeruleocephala</i> | Figure of Eight                | Invertebrates (insect) | Priority Species                |
| <i>Dolichopus strigipes</i>   | Dolichopus strigipes           | Invertebrates (insect) | Species of Conservation Concern |
| <i>Dolichopus virgultorum</i> | Dolichopus virgultorum         | Invertebrates (insect) | Species of Conservation Concern |
| <i>Donacia clavipes</i>       | Donacia clavipes               | Invertebrates (insect) | Species of Conservation Concern |
| <i>Dryops similaris</i>       | Dryops similaris               | Invertebrates (insect) | Species of Conservation Concern |
| <i>Dytiscus circumcinctus</i> | Dytiscus circumcinctus         | Invertebrates (insect) | Species of Conservation Concern |
| <i>Ecliptopera silaceata</i>  | Small Phoenix                  | Invertebrates (insect) | Priority Species                |
| <i>Ectemnius ruficornis</i>   | Ectemnius ruficornis           | Invertebrates (insect) | Species of Conservation Concern |
| <i>Elachiptera austriaca</i>  | Elachiptera austriaca          | Invertebrates (insect) | Species of Conservation Concern |





| Scientific name                   | Common name             | Taxon                  | Conservation Status             |
|-----------------------------------|-------------------------|------------------------|---------------------------------|
| <i>Ennomos erosaria</i>           | September Thorn         | Invertebrates (insect) | Priority Species                |
| <i>Ennomos fuscantaria</i>        | Dusky Thorn             | Invertebrates (insect) | Priority Species                |
| <i>Ennomos quercinaria</i>        | August Thorn            | Invertebrates (insect) | Priority Species                |
| <i>Erythromma najas</i>           | Red-eyed Damselfly      | Invertebrates (insect) | Locally Important Species       |
| <i>Eucera longicornis</i>         | Long-horned Bee         | Invertebrates (insect) | Priority Species                |
| <i>Eugnorisma glareosa</i>        | Autumnal Rustic         | Invertebrates (insect) | Priority Species                |
| <i>Eulithis mellinata</i>         | Spinach                 | Invertebrates (insect) | Priority Species                |
| <i>Gabrius bishopi</i>            | Gabrius bishopi         | Invertebrates (insect) | Species of Conservation Concern |
| <i>Gasterophilus intestinalis</i> | Horse Bot Fly           | Invertebrates (insect) | Species of Conservation Concern |
| <i>Georissus crenulatus</i>       | Georissus crenulatus    | Invertebrates (insect) | Species of Conservation Concern |
| <i>Gonomyia bifida</i>            | Gonomyia bifida         | Invertebrates (insect) | Species of Conservation Concern |
| <i>Graphiphora augur</i>          | Double Dart             | Invertebrates (insect) | Priority Species                |
| <i>Grypus equiseti</i>            | Horsetail Weevil        | Invertebrates (insect) | Species of Conservation Concern |
| <i>Gyrinus distinctus</i>         | Gyrinus distinctus      | Invertebrates (insect) | Species of Conservation Concern |
| <i>Gyrinus natator</i>            | Gyrinus natator         | Invertebrates (insect) | Species of Conservation Concern |
| <i>Haliphus mucronatus</i>        | Haliphus mucronatus     | Invertebrates (insect) | Species of Conservation Concern |
| <i>Harmonia axyridis</i>          | Harlequin Ladybird      | Invertebrates (insect) | Other Species                   |
| <i>Helochares lividus</i>         | Helochares lividus      | Invertebrates (insect) | Locally Important Species       |
| <i>Helophorus alternans</i>       | Helophorus alternans    | Invertebrates (insect) | Species of Conservation Concern |
| <i>Helophorus granularis</i>      | Helophorus granularis   | Invertebrates (insect) | Species of Conservation Concern |
| <i>Helotropha leucostigma</i>     | Crescent                | Invertebrates (insect) | Priority Species                |
| <i>Hemistola chrysoprasaria</i>   | Small Emerald           | Invertebrates (insect) | Priority Species                |
| <i>Hepialus humuli</i>            | Ghost Moth              | Invertebrates (insect) | Priority Species                |
| <i>Hipparchia semele</i>          | Grayling                | Invertebrates (insect) | Priority Species                |
| <i>Hoplodrina blanda</i>          | Rustic                  | Invertebrates (insect) | Priority Species                |
| <i>Hydaticus transversalis</i>    | Hydaticus transversalis | Invertebrates (insect) | Species of Conservation Concern |
| <i>Hydraecia micacea</i>          | Rosy Rustic             | Invertebrates (insect) | Priority Species                |
| <i>Hydronomus alismatis</i>       | Hydronomus alismatis    | Invertebrates (insect) | Species of Conservation Concern |
| <i>Hypnogyra angularis</i>        | Hypnogyra angularis     | Invertebrates (insect) | Species of Conservation Concern |
| <i>Ischnomera cyanea</i>          | Ischnomera cyanea       | Invertebrates (insect) | Species of Conservation Concern |
| <i>Lasiommata megera</i>          | Wall                    | Invertebrates (insect) | Priority Species                |



| Scientific name                 | Common name               | Taxon                  | Conservation Status             |
|---------------------------------|---------------------------|------------------------|---------------------------------|
| <i>Lasius brunneus</i>          | Brown Tree Ant            | Invertebrates (insect) | Species of Conservation Concern |
| <i>Lateroligia ophiogramma</i>  | Double Lobed              | Invertebrates (insect) | Locally Important Species       |
| <i>Leptidea sinapis</i>         | Wood White                | Invertebrates (insect) | Priority Species                |
| <i>Leptophyes punctatissima</i> | Speckled Bush-cricket     | Invertebrates (insect) | Locally Important Species       |
| <i>Lestes sponsa</i>            | Emerald Damselfly         | Invertebrates (insect) | Locally Important Species       |
| <i>Leucania comma</i>           | Shoulder-striped Wainscot | Invertebrates (insect) | Priority Species                |
| <i>Limonia trivittata</i>       | Limonia trivittata        | Invertebrates (insect) | Species of Conservation Concern |
| <i>Lipara rufitarsis</i>        | Lipara rufitarsis         | Invertebrates (insect) | Species of Conservation Concern |
| <i>Litoligia literosa</i>       | Rosy Minor                | Invertebrates (insect) | Priority Species                |
| <i>Lonchoptera scutellata</i>   | Lonchoptera scutellata    | Invertebrates (insect) | Species of Conservation Concern |
| <i>Macrocera maculata</i>       | Macrocera maculata        | Invertebrates (insect) | Species of Conservation Concern |
| <i>Macronychia dolini</i>       | Macronychia dolini        | Invertebrates (insect) | Species of Conservation Concern |
| <i>Malacosoma neustria</i>      | Lackey                    | Invertebrates (insect) | Priority Species                |
| <i>Megamerina dolium</i>        | Megamerina dolium         | Invertebrates (insect) | Species of Conservation Concern |
| <i>Melanchra persicariae</i>    | Dot Moth                  | Invertebrates (insect) | Priority Species                |
| <i>Melandrya caraboides</i>     | Melandrya caraboides      | Invertebrates (insect) | Species of Conservation Concern |
| <i>Melanthia procellata</i>     | Pretty Chalk Carpet       | Invertebrates (insect) | Priority Species                |
| <i>Monochroa palustrellus</i>   | Wainscot Neb              | Invertebrates (insect) | Species of Conservation Concern |
| <i>Mycomya britteni</i>         | Mycomya britteni          | Invertebrates (insect) | Species of Conservation Concern |
| <i>Neoascia geniculata</i>      | Neoascia geniculata       | Invertebrates (insect) | Species of Conservation Concern |
| <i>Nomada flavopicta</i>        | Blunthorn Nomad Bee       | Invertebrates (insect) | Species of Conservation Concern |
| <i>Notaris scirpi</i>           | Notaris scirpi            | Invertebrates (insect) | Species of Conservation Concern |
| <i>Odacantha melanura</i>       | Odacantha melanura        | Invertebrates (insect) | Species of Conservation Concern |
| <i>Odontomyia tigrina</i>       | Black Colonel             | Invertebrates (insect) | Species of Conservation Concern |
| <i>Oodes helopioides</i>        | Oodes helopioides         | Invertebrates (insect) | Species of Conservation Concern |
| <i>Orthetrum cancellatum</i>    | Black-tailed Skimmer      | Invertebrates (insect) | Locally Important Species       |
| <i>Orthonama vittata</i>        | Oblique Carpet            | Invertebrates (insect) | Priority Species                |
| <i>Orthosia gracilis</i>        | Powdered Quaker           | Invertebrates (insect) | Priority Species                |
| <i>Oscinella angularis</i>      | Oscinella angularis       | Invertebrates (insect) | Species of Conservation Concern |
| <i>Oscinella angustipennis</i>  | Oscinella angustipennis   | Invertebrates (insect) | Species of Conservation Concern |
| <i>Oscinisma gilvipes</i>       | Oscinisma gilvipes        | Invertebrates (insect) | Species of Conservation Concern |



| Scientific name                   | Common name                  | Taxon                  | Conservation Status             |
|-----------------------------------|------------------------------|------------------------|---------------------------------|
| <i>Oxystoma cerdo</i>             | Oxystoma cerdo               | Invertebrates (insect) | Species of Conservation Concern |
| <i>Oxytelus fulvipes</i>          | Oxytelus fulvipes            | Invertebrates (insect) | Species of Conservation Concern |
| <i>Paederus fuscipes</i>          | Paederus fuscipes            | Invertebrates (insect) | Species of Conservation Concern |
| <i>Parhelophilus consimilis</i>   | Parhelophilus consimilis     | Invertebrates (insect) | Species of Conservation Concern |
| <i>Peltodytes caesus</i>          | Peltodytes caesus            | Invertebrates (insect) | Species of Conservation Concern |
| <i>Pentastiridius leporinus</i>   | Pentastiridius leporinus     | Invertebrates (insect) | Species of Conservation Concern |
| <i>Phalacrocera replicata</i>     | Phalacrocera replicata       | Invertebrates (insect) | Species of Conservation Concern |
| <i>Phaonia atriceps</i>           | Phaonia atriceps             | Invertebrates (insect) | Species of Conservation Concern |
| <i>Pherbellia brunnipes</i>       | Pherbellia brunnipes         | Invertebrates (insect) | Species of Conservation Concern |
| <i>Pherbellia dorsata</i>         | Pherbellia dorsata           | Invertebrates (insect) | Species of Conservation Concern |
| <i>Pherbellia griseola</i>        | Pherbellia griseola          | Invertebrates (insect) | Species of Conservation Concern |
| <i>Platycheirus perpallidus</i>   | Platycheirus perpallidus     | Invertebrates (insect) | Species of Conservation Concern |
| <i>Platypalpus pseudociliaris</i> | Platypalpus pseudociliaris   | Invertebrates (insect) | Species of Conservation Concern |
| <i>Platystethus nodifrons</i>     | Platystethus nodifrons       | Invertebrates (insect) | Species of Conservation Concern |
| <i>Plebejus argus</i>             | Silver-studded Blue          | Invertebrates (insect) | Priority Species                |
| <i>Prionychus ater</i>            | Prionychus ater              | Invertebrates (insect) | Species of Conservation Concern |
| <i>Protapion difforme</i>         | Protapion difforme           | Invertebrates (insect) | Species of Conservation Concern |
| <i>Protapion dissimile</i>        | Protapion dissimile          | Invertebrates (insect) | Species of Conservation Concern |
| <i>Psacadina verbekei</i>         | Psacadina verbekei           | Invertebrates (insect) | Species of Conservation Concern |
| <i>Pseudocistela ceramboides</i>  | Pseudocistela ceramboides    | Invertebrates (insect) | Species of Conservation Concern |
| <i>Pseudomalus violaceus</i>      | Pseudomalus violaceus        | Invertebrates (insect) | Species of Conservation Concern |
| <i>Pterostichus anthracinus</i>   | Pterostichus anthracinus     | Invertebrates (insect) | Species of Conservation Concern |
| <i>Pterostichus gracilis</i>      | Pterostichus gracilis        | Invertebrates (insect) | Species of Conservation Concern |
| <i>Pyrochroa coccinea</i>         | Black-headed Cardinal Beetle | Invertebrates (insect) | Species of Conservation Concern |
| <i>Quedius scitus</i>             | Quedius scitus               | Invertebrates (insect) | Species of Conservation Concern |
| <i>Rhantus frontalis</i>          | Rhantus frontalis            | Invertebrates (insect) | Species of Conservation Concern |
| <i>Rheumaptera undulata</i>       | Scallop Shell                | Invertebrates (insect) | Locally Important Species       |
| <i>Rhizodra lutosa</i>            | Large Wainscot               | Invertebrates (insect) | Priority Species                |
| <i>Sapromyza opaca</i>            | Sapromyza opaca              | Invertebrates (insect) | Species of Conservation Concern |
| <i>Sapromyza quadricincta</i>     | Sapromyza quadricincta       | Invertebrates (insect) | Species of Conservation Concern |
| <i>Schoenobius gigantella</i>     | Giant Water-veneer           | Invertebrates (insect) | Species of Conservation Concern |



| Scientific name                            | Common name                         | Taxon                                       | Conservation Status             |
|--|-------------------------------------|---|---------------------------------|
| <i>Scirtes orbicularis</i>                 | Scirtes orbicularis                 | Invertebrates (insect)                      | Species of Conservation Concern |
| <i>Scolytus mali</i>                       | Large Fruit Bark Beetle             | Invertebrates (insect)                      | Species of Conservation Concern |
| <i>Scotopteryx chenopodiata</i>            | Shaded Broad-bar                    | Invertebrates (insect)                      | Priority Species                |
| <i>Spilosoma lubricipeda</i>               | White Ermine                        | Invertebrates (insect)                      | Priority Species                |
| <i>Spilosoma lutea</i>                     | Buff Ermine                         | Invertebrates (insect)                      | Priority Species                |
| <i>Spilosoma urticae</i>                   | Water Ermine                        | Invertebrates (insect)                      | Locally Important Species       |
| <i>Stenolophus skrimshiranus</i>           | Stenolophus skrimshiranus           | Invertebrates (insect)                      | Species of Conservation Concern |
| <i>Stenus assequens</i>                    | Stenus assequens                    | Invertebrates (insect)                      | Species of Conservation Concern |
| <i>Stenus palustris</i>                    | Stenus palustris                    | Invertebrates (insect)                      | Species of Conservation Concern |
| <i>Stenus pusillus</i>                     | Stenus pusillus                     | Invertebrates (insect)                      | Species of Conservation Concern |
| <i>Stratiomys potamida</i>                 | Banded General                      | Invertebrates (insect)                      | Species of Conservation Concern |
| <i>Stratiomys singularior</i>              | Flecked General                     | Invertebrates (insect)                      | Species of Conservation Concern |
| <i>Strigocis bicornis</i>                  | Strigocis bicornis                  | Invertebrates (insect)                      | Species of Conservation Concern |
| <i>Sympetrum sanguineum</i>                | Ruddy Darter                        | Invertebrates (insect)                      | Locally Important Species       |
| <i>Tachyporus formosus</i>                 | Tachyporus formosus                 | Invertebrates (insect)                      | Species of Conservation Concern |
| <i>Tachys bistriatus</i>                   | Tachys bistriatus                   | Invertebrates (insect)                      | Species of Conservation Concern |
| <i>Tetanocera punctifrons</i>              | Tetanocera punctifrons              | Invertebrates (insect)                      | Species of Conservation Concern |
| <i>Tetrix subulata</i>                     | Slender Ground-hopper               | Invertebrates (insect)                      | Locally Important Species       |
| <i>Tholera cespitis</i>                    | Hedge Rustic                        | Invertebrates (insect)                      | Priority Species                |
| <i>Tholera decimalis</i>                   | Feathered Gothic                    | Invertebrates (insect)                      | Priority Species                |
| <i>Thrypticus tarsalis</i>                 | Thrypticus tarsalis                 | Invertebrates (insect)                      | Species of Conservation Concern |
| <i>Timandra comae</i>                      | Blood-vein                          | Invertebrates (insect)                      | Priority Species                |
| <i>Typhamyza bifasciata</i>                | Typhamyza bifasciata                | Invertebrates (insect)                      | Species of Conservation Concern |
| <i>Tyria jacobaeae</i>                     | Cinnabar                            | Invertebrates (insect)                      | Priority Species                |
| <i>Tytthus pubescens</i>                   | Tytthus pubescens                   | Invertebrates (insect)                      | Species of Conservation Concern |
| <i>Vanoyia tenuicornis</i>                 | Long-horned Soldier                 | Invertebrates (insect)                      | Species of Conservation Concern |
| <i>Watsonalla binaria</i>                  | Oak Hook-tip                        | Invertebrates (insect)                      | Priority Species                |
| <i>Xanthorhoe ferrugata</i>                | Dark-barred Twin-spot Carpet        | Invertebrates (insect)                      | Priority Species                |
| <i>Austrominius modestus</i>               | Austrominius modestus               | Invertebrates (other, marine or freshwater) | Other Species                   |
| <i>Crangonyx pseudogracilis/floridanus</i> | Crangonyx pseudogracilis/floridanus | Invertebrates (other,                       | Other Species                   |



| Scientific name                         | Common name                      | Taxon                                       | Conservation Status             |
|---|----------------------------------|---|---------------------------------|
|   |                                  | marine or freshwater)                       |                                 |
| <i>Euglesa pseudosphaerium</i>          | Euglesa pseudosphaerium          | Invertebrates (other, marine or freshwater) | Species of Conservation Concern |
| <i>Hydrobia ventrosa seg.</i>           | Hydrobia ventrosa seg.           | Invertebrates (other, marine or freshwater) | Locally Important Species       |
| <i>Physella acuta</i>                   | Physella acuta                   | Invertebrates (other, marine or freshwater) | Other Species                   |
| <i>Planaria torva</i>                   | Planaria torva                   | Invertebrates (other, marine or freshwater) | Other Species                   |
| <i>Potamopyrgus antipodarum</i>         | Jenkins' Spire Snail             | Invertebrates (other, marine or freshwater) | Other Species                   |
| <i>Caloplaca flavocitrina</i>           | Caloplaca flavocitrina           | Lichens                                     | Locally Important Species       |
| <i>Candelariella medians f. medians</i> | Candelariella medians f. medians | Lichens                                     | Locally Important Species       |
| <i>Xanthoria ucrainica</i>              | Xanthoria ucrainica              | Lichens                                     | Species of Conservation Concern |
| <i>Halichoerus grypus</i>               | Grey Seal                        | Mammals (marine)                            | Species of Conservation Concern |
| <i>Phocoena phocoena</i>                | Common Porpoise                  | Mammals (marine)                            | Priority Species                |
| <i>Arvicola amphibius</i>               | European Water Vole              | Mammals (terrestrial)                       | Priority Species                |
| <i>Chiroptera</i>                       | Bat                              | Mammals (terrestrial)                       | Priority Species                |
| <i>Erinaceus europaeus</i>              | West European Hedgehog           | Mammals (terrestrial)                       | Priority Species                |
| <i>Lepus europaeus</i>                  | Brown Hare                       | Mammals (terrestrial)                       | Priority Species                |
| <i>Lutra lutra</i>                      | Eurasian Otter                   | Mammals (terrestrial)                       | Priority Species                |
| <i>Meles meles</i>                      | Eurasian Badger                  | Mammals (terrestrial)                       | Priority Species                |
| <i>Micromys minutus</i>                 | Harvest Mouse                    | Mammals (terrestrial)                       | Priority Species                |
| <i>Muscardinus avellanarius</i>         | Hazel Dormouse                   | Mammals (terrestrial)                       | Priority Species                |
| <i>Mustela erminea</i>                  | Stoat                            | Mammals (terrestrial)                       | Priority Species                |
| <i>Mustela nivalis</i>                  | Weasel                           | Mammals (terrestrial)                       | Priority Species                |
| <i>Myotis mystacinus</i>                | Whiskered Bat                    | Mammals (terrestrial)                       | Priority Species                |
| <i>Myotis</i>                           | Myotis Bat species               | Mammals (terrestrial)                       | Priority Species                |
| <i>Neomys fodiens</i>                   | Eurasian Water Shrew             | Mammals (terrestrial)                       | Locally Important Species       |
| <i>Neovison vison</i>                   | American Mink                    | Mammals (terrestrial)                       | Other Species                   |
| <i>Nyctalus leisleri</i>                | Lesser Noctule                   | Mammals (terrestrial)                       | Priority Species                |



| Scientific name  | Common name                      | Taxon                   | Conservation Status             |
|--|----------------------------------|-------------------------|---------------------------------|
| <i>Nyctalus noctula</i>  | Noctule Bat                      | Mammals (terrestrial)   | Priority Species                |
| <i>Pipistrellus nathusii</i>                                       | Nathusius's Pipistrelle          | Mammals (terrestrial)   | Priority Species                |
| <i>Pipistrellus pipistrellus</i>                                   | Common Pipistrelle               | Mammals (terrestrial)   | Priority Species                |
| <i>Pipistrellus pygmaeus</i>                                       | Soprano Pipistrelle              | Mammals (terrestrial)   | Priority Species                |
| <i>Rhinolophus ferrumequinum</i>                                   | Greater Horseshoe Bat            | Mammals (terrestrial)   | Priority Species                |
| <i>Rhinolophus hipposideros</i>                                    | Lesser Horseshoe Bat             | Mammals (terrestrial)   | Priority Species                |
| <i>Sciurus carolinensis</i>  | Eastern Grey Squirrel            | Mammals (terrestrial)   | Other Species                   |
| <i>Sorex araneus</i>   | Eurasian Common Shrew            | Mammals (terrestrial)   | Locally Important Species       |
| <i>Anguis fragilis</i>   | Slow-worm                        | Reptiles and Amphibians | Priority Species                |
| <i>Bufo bufo</i>   | Common Toad                      | Reptiles and Amphibians | Priority Species                |
| <i>Lissotriton vulgaris</i>  | Smooth Newt                      | Reptiles and Amphibians | Priority Species                |
| <i>Natrix helvetica</i>  | Grass Snake                      | Reptiles and Amphibians | Priority Species                |
| <i>Rana temporaria</i>   | Common Frog                      | Reptiles and Amphibians | Priority Species                |
| <i>Vipera berus</i>  | Adder                            | Reptiles and Amphibians | Priority Species                |
| <i>Alopecurus bulbosus</i>   | Bulbous Foxtail                  | Vascular Plants         | Species of Conservation Concern |
| <i>Althaea officinalis</i>   | Marsh-mallow                     | Vascular Plants         | Species of Conservation Concern |
| <i>Apium graveolens</i>  | Wild Celery                      | Vascular Plants         | Locally Important Species       |
| <i>Azolla filiculoides</i>   | Water Fern                       | Vascular Plants         | Other Species                   |
| <i>Bromus hordeaceus x lepidus</i><br>= <i>B. x pseudothominei</i> | Lesser Soft-brome                | Vascular Plants         | Locally Important Species       |
| <i>Bromus racemosus</i>  | Smooth Brome                     | Vascular Plants         | Locally Important Species       |
| <i>Bryonia dioica</i>  | White Bryony                     | Vascular Plants         | Locally Important Species       |
| <i>Buddleja davidii</i>  | Butterfly-bush                   | Vascular Plants         | Other Species                   |
| <i>Bupleurum tenuissimum</i>                                       | Slender Hare's-ear               | Vascular Plants         | Priority Species                |
| <i>Butomus umbellatus</i>  | Flowering-rush                   | Vascular Plants         | Species of Conservation Concern |
| <i>Callitriche brutia</i>  | Pedunculate Water-starwort       | Vascular Plants         | Locally Important Species       |
| <i>Callitriche obtusangula</i>                                     | Blunt-fruited Water-starwort     | Vascular Plants         | Locally Important Species       |
| <i>Callitriche platycarpa</i>                                      | Various-leaved Water-starwort    | Vascular Plants         | Locally Important Species       |
| <i>Calystegia sepium subsp. roseata</i>                            | Calystegia sepium subsp. roseata | Vascular Plants         | Species of Conservation Concern |
| <i>Carex disticha</i>  | Brown Sedge                      | Vascular Plants         | Locally Important Species       |
| <i>Carex elata</i>   | Tufted-sedge                     | Vascular Plants         | Locally Important Species       |
| <i>Carex extensa</i>   | Long-bracted Sedge               | Vascular Plants         | Locally Important Species       |



| Scientific name   | Common name                              | Taxon           | Conservation Status             |
|---|--|-----------------|---------------------------------|
| <i>Carex pseudocyperus</i>                                      | Cyperus Sedge                            | Vascular Plants | Locally Important Species       |
| <i>Carex riparia</i>  | Greater Pond-sedge                       | Vascular Plants | Locally Important Species       |
| <i>Carex viridula subsp. brachyrrhyncha</i>                     | Long-stalked Yellow-sedge                | Vascular Plants | Locally Important Species       |
| <i>Catabrosa aquatica</i>                                       | Whorl-grass                              | Vascular Plants | Locally Important Species       |
| <i>Ceratophyllum demersum</i>                                   | Rigid Hornwort                           | Vascular Plants | Locally Important Species       |
| <i>Ceratophyllum submersum</i>                                  | Soft Hornwort                            | Vascular Plants | Species of Conservation Concern |
| <i>Cicuta virosa</i>  | Cowbane                                  | Vascular Plants | Species of Conservation Concern |
| <i>Cotoneaster horizontalis</i>                                 | Wall Cotoneaster                         | Vascular Plants | Other Species                   |
| <i>Crococsmia pottsii x aurea = C. x crocosmiiflora</i>         | Montbretia                               | Vascular Plants | Other Species                   |
| <i>Daphne laureola</i>  | Spurge-laurel                            | Vascular Plants | Locally Important Species       |
| <i>Elodea canadensis</i>  | Canadian Waterweed                       | Vascular Plants | Other Species                   |
| <i>Elodea nuttallii</i>   | Nuttall's Waterweed                      | Vascular Plants | Other Species                   |
| <i>Elodea</i>   | Waterweed                                | Vascular Plants | Other Species                   |
| <i>Equisetum fluviatile x arvense = E. x litorale</i>           | Shore Horsetail                          | Vascular Plants | Locally Important Species       |
| <i>Fallopia japonica</i>  | Japanese Knotweed                        | Vascular Plants | Other Species                   |
| <i>Galium uliginosum</i>  | Fen Bedstraw                             | Vascular Plants | Locally Important Species       |
| <i>Geranium rotundifolium</i>                                   | Round-leaved Crane's-bill                | Vascular Plants | Locally Important Species       |
| <i>Hippuris vulgaris</i>  | Mare's-tail                              | Vascular Plants | Locally Important Species       |
| <i>Hordeum secalinum</i>  | Meadow Barley                            | Vascular Plants | Locally Important Species       |
| <i>Hyacinthoides hispanica</i>                                  | Spanish Bluebell                         | Vascular Plants | Other Species                   |
| <i>Hyacinthoides non-scripta x hispanica = H. x massartiana</i> | Bluebell                                 | Vascular Plants | Other Species                   |
| <i>Hyacinthoides non-scripta</i>                                | Bluebell                                 | Vascular Plants | Priority Species                |
| <i>Hypericum hirsutum</i>                                       | Hairy St John's-wort                     | Vascular Plants | Locally Important Species       |
| <i>Impatiens glandulifera</i>                                   | Himalayan Balsam                         | Vascular Plants | Other Species                   |
| <i>Iris foetidissima</i>  | Stinking Iris                            | Vascular Plants | Locally Important Species       |
| <i>Juncus subnodulosus</i>                                      | Blunt-flowered Rush                      | Vascular Plants | Locally Important Species       |
| <i>Lamiastrum galeobdolon subsp. argentatum</i>                 | Lamiastrum galeobdolon subsp. argentatum | Vascular Plants | Other Species                   |
| <i>Lathyrus sylvestris</i>                                      | Narrow-leaved Everlasting-pea            | Vascular Plants | Locally Important Species       |
| <i>Lemna gibba</i>  | Fat Duckweed                             | Vascular Plants | Locally Important Species       |
| <i>Lemna minuta</i>   | Least Duckweed                           | Vascular Plants | Other Species                   |
| <i>Lemna trisulca</i>   | Ivy-leaved Duckweed                      | Vascular Plants | Locally Important Species       |



| Scientific name                                   | Common name                         | Taxon           | Conservation Status             |
|---|-------------------------------------|-----------------|---------------------------------|
| <i>Lepidium latifolium</i>                        | Dittander                           | Vascular Plants | Species of Conservation Concern |
| <i>Leycesteria formosa</i>                        | Himalayan Honeysuckle               | Vascular Plants | Other Species                   |
| <i>Limonium vulgare</i>                           | Common Sea-lavender                 | Vascular Plants | Locally Important Species       |
| <i>Lotus tenuis</i>                               | Narrow-leaved Bird's-foot-trefoil   | Vascular Plants | Locally Important Species       |
| <i>Luzula multiflora subsp. congesta</i>          | Luzula multiflora subsp. congesta   | Vascular Plants | Locally Important Species       |
| <i>Malva arborea</i>                              | Tree-mallow                         | Vascular Plants | Locally Important Species       |
| <i>Malva neglecta</i>                             | Dwarf Mallow                        | Vascular Plants | Locally Important Species       |
| <i>Mimulus guttatus x luteus = M. x robertsii</i> | Hybrid Monkeyflower                 | Vascular Plants | Other Species                   |
| <i>Mimulus guttatus x luteus x cupreus</i>        | Mimulus guttatus x luteus x cupreus | Vascular Plants | Other Species                   |
| <i>Myosotis laxa subsp. caespitosa</i>            | Myosotis laxa subsp. caespitosa     | Vascular Plants | Locally Important Species       |
| <i>Myosoton aquaticum</i>                         | Water Chickweed                     | Vascular Plants | Locally Important Species       |
| <i>Myriophyllum aquaticum</i>                     | Parrot's-feather                    | Vascular Plants | Other Species                   |
| <i>Myriophyllum spicatum</i>                      | Spiked Water-milfoil                | Vascular Plants | Locally Important Species       |
| <i>Myriophyllum verticillatum</i>                 | Whorled Water-milfoil               | Vascular Plants | Species of Conservation Concern |
| <i>Odontites vernus subsp. serotinus</i>          | Odontites vernus subsp. serotinus   | Vascular Plants | Locally Important Species       |
| <i>Oenanthe aquatica</i>                          | Fine-leaved Water-dropwort          | Vascular Plants | Locally Important Species       |
| <i>Oenanthe fistulosa</i>                         | Tubular Water-dropwort              | Vascular Plants | Priority Species                |
| <i>Oenanthe lachenalii</i>                        | Parsley Water-dropwort              | Vascular Plants | Locally Important Species       |
| <i>Ononis spinosa</i>                             | Spiny Restharrow                    | Vascular Plants | Locally Important Species       |
| <i>Parapholis strigosa</i>                        | Hard-grass                          | Vascular Plants | Locally Important Species       |
| <i>Petroselinum segetum</i>                       | Corn Parsley                        | Vascular Plants | Locally Important Species       |
| <i>Polypogon monspeliensis</i>                    | Annual Beard-grass                  | Vascular Plants | Species of Conservation Concern |
| <i>Populus nigra subsp. betulifolia</i>           | Black-poplar                        | Vascular Plants | Locally Important Species       |
| <i>Populus nigra</i>                              | Black-poplar                        | Vascular Plants | Locally Important Species       |
| <i>Potamogeton berchtoldii</i>                    | Small Pondweed                      | Vascular Plants | Locally Important Species       |
| <i>Potamogeton nodosus</i>                        | Loddon Pondweed                     | Vascular Plants | Species of Conservation Concern |
| <i>Potamogeton obtusifolius</i>                   | Blunt-leaved Pondweed               | Vascular Plants | Locally Important Species       |
| <i>Potamogeton pectinatus</i>                     | Fennel Pondweed                     | Vascular Plants | Locally Important Species       |
| <i>Puccinellia distans</i>                        | Reflexed Saltmarsh-Grass            | Vascular Plants | Locally Important Species       |
| <i>Rhamnus cathartica</i>                         | Buckthorn                           | Vascular Plants | Locally Important Species       |
| <i>Rorippa amphibia</i>                           | Great Yellow-cress                  | Vascular Plants | Locally Important Species       |



| Scientific name                            | Common name                         | Taxon           | Conservation Status             |
|--|-------------------------------------|-----------------|---------------------------------|
| <i>Rorippa islandica</i>                   | Northern Yellow-cress               | Vascular Plants | Species of Conservation Concern |
| <i>Rorippa microphylla</i>                 | Narrow-fruited Water-cress          | Vascular Plants | Locally Important Species       |
| <i>Rosa stylosa</i>                        | Short-styled Field-rose             | Vascular Plants | Locally Important Species       |
| <i>Rumex maritimus</i>                     | Golden Dock                         | Vascular Plants | Locally Important Species       |
| <i>Rumex palustris</i>                     | Marsh Dock                          | Vascular Plants | Species of Conservation Concern |
| <i>Sagittaria sagittifolia</i>             | Arrowhead                           | Vascular Plants | Species of Conservation Concern |
| <i>Salicornia dolichostachya</i>           | Long-spiked Glasswort               | Vascular Plants | Locally Important Species       |
| <i>Salicornia europaea</i>                 | Common Glasswort                    | Vascular Plants | Locally Important Species       |
| <i>Samolus valerandi</i>                   | Brookweed                           | Vascular Plants | Locally Important Species       |
| <i>Schoenoplectus lacustris</i>            | Common Club-rush                    | Vascular Plants | Locally Important Species       |
| <i>Sedum forsterianum</i>                  | Rock Stonecrop                      | Vascular Plants | Species of Conservation Concern |
| <i>Seriphidium maritimum</i>               | Sea Wormwood                        | Vascular Plants | Locally Important Species       |
| <i>Silaum silaus</i>                       | Pepper-saxifrage                    | Vascular Plants | Locally Important Species       |
| <i>Sinapis arvensis</i>                    | Charlock                            | Vascular Plants | Species of Conservation Concern |
| <i>Sison amomum</i>                        | Stone Parsley                       | Vascular Plants | Locally Important Species       |
| <i>Sparganium emersum</i>                  | Unbranched Bur-reed                 | Vascular Plants | Locally Important Species       |
| <i>Sparganium erectum subsp. erectum</i>   | Sparganium erectum subsp. erectum   | Vascular Plants | Species of Conservation Concern |
| <i>Sparganium erectum subsp. neglectum</i> | Sparganium erectum subsp. neglectum | Vascular Plants | Species of Conservation Concern |
| <i>Spartina anglica</i>                    | Common Cord-grass                   | Vascular Plants | Other Species                   |
| <i>Spergularia marina</i>                  | Lesser Sea-spurrey                  | Vascular Plants | Locally Important Species       |
| <i>Spergularia media</i>                   | Greater Sea-spurrey                 | Vascular Plants | Locally Important Species       |
| <i>Spirodela polyrhiza</i>                 | Greater Duckweed                    | Vascular Plants | Locally Important Species       |
| <i>Symphoricarpos albus</i>                | Snowberry                           | Vascular Plants | Other Species                   |
| <i>Thalictrum flavum</i>                   | Common Meadow-rue                   | Vascular Plants | Locally Important Species       |
| <i>Torilis nodosa</i>                      | Knotted Hedge-parsley               | Vascular Plants | Locally Important Species       |
| <i>Trifolium fragiferum</i>                | Strawberry Clover                   | Vascular Plants | Locally Important Species       |
| <i>Trifolium scabrum</i>                   | Rough Clover                        | Vascular Plants | Locally Important Species       |
| <i>Trifolium squamosum</i>                 | Sea Clover                          | Vascular Plants | Species of Conservation Concern |
| <i>Veronica anagallis-aquatica</i>         | Blue Water-speedwell                | Vascular Plants | Locally Important Species       |
| <i>Veronica catenata</i>                   | Pink Water-speedwell                | Vascular Plants | Locally Important Species       |
| <i>Veronica polita</i>                     | Grey Field-speedwell                | Vascular Plants | Locally Important Species       |



| Scientific name                    | Common name        | Taxon           | Conservation Status             |
|------------------------------------|--------------------|-----------------|---------------------------------|
| <i>Viburnum lantana</i>            | Wayfaring-tree     | Vascular Plants | Locally Important Species       |
| <i>Vinca major</i>                 | Greater Periwinkle | Vascular Plants | Other Species                   |
| <i>Viola hirta</i>                 | Hairy Violet       | Vascular Plants | Locally Important Species       |
| <i>Viscum album</i>                | Mistletoe          | Vascular Plants | Locally Important Species       |
| <i>Wolffia arrhiza</i>             | Rootless Duckweed  | Vascular Plants | Species of Conservation Concern |
| <i>Zannichellia palustris</i>      | Horned Pondweed    | Vascular Plants | Locally Important Species       |
| <i>Zostera (Zosterella) noltei</i> | Dwarf Eelgrass     | Vascular Plants | Species of Conservation Concern |



## APPENDIX C - LEGISLATION

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### 9.1 INTERNATIONAL

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Prior to the 31st January 2020, European Union legislation required that member states designate sites for the protection of habitats and species included in the annexes of both Council Directive 92/43/EC on the Conservation of Natural Habitats and of Wild Flora and Fauna (the Habitats Directive) and Council Directive 79/409/EEC on the Conservation of Wild Birds (the Birds Directive). This legislation was implemented in the UK by the Conservation of Habitats and Species Regulations 2017 (“the Habitat Regulations”). This results in sites being designated as Special Areas of Conservation (SACs) and Special Protection Areas respectively (SPAs).

Following the UK’s exit from the European Union on 31st January 2020, the law responsible for continuing to implement this legislation through the transition period is The Conservation of Habitats and Species (Amendment) (EU EXIT) Regulations 2019. All legislation within the Conservation of Habitats and Species Regulation 2017 still apply within the UK under the amendment to the 2017 regulations until otherwise notified.

Working in protected sites or disturbing protected species is possible as long as consent has been issued by Natural Resources Wales (NRW).

It is possible to undertake damaging activities under the auspices of a Protected Species Licence issued by NRW which provides a derogation from the Regulations, meaning that an otherwise illegal operation carried out under licence is lawful.

### 9.2 NATIONAL (UK)

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The Wildlife and Countryside Act 1981 (as amended) allows sites to be designated as Sites of Special Scientific Interest (SSSI) for one or all of the following categories:

- ◆ Flora;
- ◆ Fauna;
- ◆ Habitat; and
- ◆ Geological importance.

European designated sites are automatically designated as SSSIs prior to their designation.

The relevant legislation includes:

- ◆ The Town and Country Planning (Environmental Impact Assessment) (England and Wales) Regulations 1999 (as amended);
- ◆ The Conservation of Habitats and Species Regulations 2010 (as amended);
- ◆ The Wildlife and Countryside Act 1981 (as amended);
- ◆ Countryside and Rights of Way Act 2000;
- ◆ Wild Mammals (Protection) Act 1996;
- ◆ The Protection of Badgers Act 1992; and
- ◆ The Hedgerow Regulations 1997.

Section 40 of the Natural Environment and Rural Communities Act 2006 (as amended) requires all public bodies to have regard wherever possible to conserving biodiversity. Section 42 of the Act requires that a list of habitats and species of Principle Importance for the Conservation of Biological Diversity be produced.

### 9.3 NATIONAL (WALES)

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#### 9.3.1 The Environment (Wales) Act, 2016



The Environment (Wales) Act 2016 requires that all public authorities, when carrying out their functions in Wales, seek to “maintain and enhance biodiversity” where it is within the proper exercise of their functions. In doing so, public authorities must also seek to “promote the resilience of ecosystems”.

This ensures that biodiversity is an integral part of the decisions that public authorities take in relation to Wales. It also links biodiversity with the long-term health and functioning of our ecosystems, therefore helping to align the biodiversity duty with the framework for sustainable natural resource management provided in the Act.

In Wales, this legislation replaces and enhances the Natural Environment and Rural Communities Act (2006) which sought to raise the profile of biodiversity and to make sure that it is considered in all local authority decisions by ensuring that “Every public authority must, in exercising its functions, have regard, so far as is consistent with the proper exercise of those functions, to the purpose of conserving biodiversity.”.

Other elements of NERC 2006 may still apply.

### 9.3.2 The Wellbeing of Future Generations Act 2015

The Wellbeing of Future Generations Act became law in April 2015 and is concerned with improving the social, economic, environmental and cultural well-being of Wales. It will make the public bodies in Wales listed in the Act think more about the long-term, work better with people and communities and each other, look to prevent problems and take a more joined-up approach.

To help public bodies achieve the same vision, the Act puts in place seven well-being goals. Linked to the goals a set of National Indicators are currently under development to help measure whether we are achieving the goals including the Resilient Wales goal.

#### ***Resilient Wales' goal***

'A nation which maintains and enhances a biodiverse natural environment with healthy functioning ecosystems that support social, economic and ecological resilience and the capacity to adapt to change (for example climate change).'

The Well-being of Future Generations Act recognises the importance of nature and its biodiversity. The resilient Wales' goal will help with nature recovery objectives in Wales.

The Act establishes a statutory Future Generations Commissioner for Wales to support the public bodies listed in the Act to work towards achieving the well-being goals. The Act also establishes Public Services Boards (PSBs) for each local authority area in Wales. PSBs are tasked with improving the economic, social, environmental and cultural well-being of its area by working to achieve the well-being goals.

Biodiversity Action Plans (BAPs) are tools which are used to monitor, manage and enhance those habitats and species which are of significance to an area or organisation, The United Kingdom BAP lists a number of priority habitats and species which are of conservation concern.

### 9.3.3 Other

Planning Policy Wales (Welsh Government, 2018) and Planning Policy Wales Technical Advice Note 5: Nature Conservation and Planning (Welsh Assembly Government, September 2009) set out the protection given to wildlife (sites, habitats and species) by the planning system operational in Wales.

## 9.4 LOCAL AND REGIONAL

The proposed development is wholly within the City Newport Council area of responsibility. Therefore, all policies relating to biodiversity and nature conservation adopted by the Council will apply.