

# Parish Biodiversity Action Plan

## Hamble-le-Rice Parish Council



**Sarah Jackson**  
January 2018

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## Executive Summary

Hamble-le-Rice Parish Council are keen to document, enhance and protect biodiversity within the Hamble-le-Rice parish. They intend to engage the local community, gather information on local wildlife and use this to produce a local biodiversity action plan. The council have sought advice from the Hampshire & Isle Wight Wildlife Trust's ecological consultancy Arcadian Ecology on how to achieve this and commissioned them to produce a Biodiversity Action Plan (BAP).

The first step in assessment was an extended Phase 1 habitat survey, this was undertaken on 28<sup>th</sup> September 2017 and identifies the key habitat types, potential species they could support and informs actions for the BAP.

The survey sites were primarily amenity grassland, but did also include areas of woodland, scrub, and coastal habitats such as saltmarsh, coastal woodland and shingle.

The information gathered during surveys was used to create an action table for the parish, including both location specific and parish wide actions.

Some actions are enhancing features that have already been created to benefit biodiversity such as changing mowing regimes; while others are new ideas for example the creation of a wildlife pond in the cemetery.

By implementing the actions of the BAP the parish will enhance the biodiversity value of the parish, both for the benefit of wildlife and people.

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## GLOSSARY

## **1. INTRODUCTION**

### **1.1. Background**

Hamble-le-Rice Parish Council are keen to document, enhance and protect biodiversity within the Hamble-le-Rice parish. They intend to engage the local community, gather information on local wildlife and use this to produce a local biodiversity action plan. The council have sought advice from the Hampshire & Isle Wight Wildlife Trust's ecological consultancy Arcadian Ecology on how to achieve this and commissioned them to produce a Biodiversity Action Plan (BAP).

### **1.2. Site Description**

The parish of Hamble-le-Rice (SU 473 067) covers an area of approximately 550 hectares (Map 1). The parish lies within Eastleigh District Council, and sits on a peninsula bounded by the River Hamble to the east and Southampton Water to the west, with the neighbouring settlements of Netley and Bursledon to the north.

The parish comprises the main settlement running across the centre of the parish, with areas of greenspace either side of an oil terminal to the south, and amenity areas and educational facilities bounding a disused airfield to the north. There are marinas along the eastern boundary of the parish, on the River Hamble.

The parish has a strong association with the water, but is also well connected by greenspaces to the neighbouring parishes, including Royal Victoria Country Park to the west, and other areas of amenity grassland, farmland, woodland and natural green spaces.

### **1.3. Remit and Scope of the Report**

This report will assess the current ecological status of nine Hamble-le-Rice parish council sites and make recommendations on how to improve the biodiversity of the parish through a Biodiversity Action Plan.

## 2. BIODIVERSITY AND LEGISLATION

### 2.1. Value of Biodiversity

The State of Nature report 2013 identifies the biodiversity losses the UK has suffered, with over 60% of species having declined in the last 50 years (Burns *et al.* 2013). The latest State of Nature report, published in 2016, further highlights the declines with 56% of species having declined between 1970 and 2013; 40% of which demonstrated a strong or moderate decline (Hayhow *et al.* 2016). This is significant not just for the species and the functioning of the environment, but for the human health, well-being and the economic sustainability of the UK.

The economic value of biodiversity has been brought in to focus through ecosystem services. They identify the importance of biodiversity not only for the production of food, fuel etc., but also for the health and well-being of the population.

Ecosystem services are fundamental to understanding the value of ecosystems and their components: water, soil, nutrients and organisms; and how these natural resources are utilised and managed for sustainable development with long-term benefits.

They can be classified in to 4 key services (Ecosystem Services 2013):

**Supporting services:** Key services for the production of all our services such as photosynthesis, soil formation and water cycling

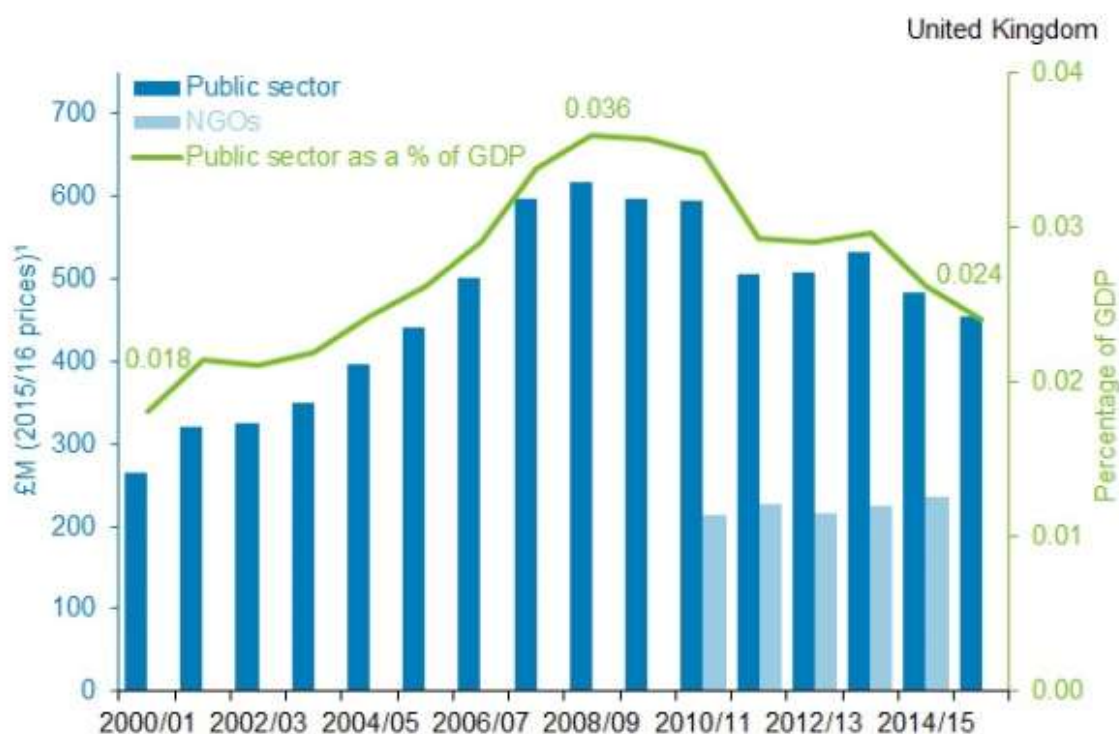
**Provisioning services:** Products sourced from ecosystems including fuel, food, fresh water and pharmaceuticals

**Regulating services:** Benefits gained from regulation of ecosystem processes such as climate regulation, disease regulation, pollination and water regulation

**Cultural services:** Non-material enhancements people gain from ecosystems which include recreational experiences, spiritual enrichment and cognitive development

[www.ecosystems-services.org.uk](http://www.ecosystems-services.org.uk)

Biodiversity and the environment are underfunded, under-valued and not invested in. In the financial year 2015-16, the public sector spending on UK biodiversity was £453 million, equivalent to £2.40 in every £10,000 of Gross Domestic Product (GDP), which is a decrease of 6% since 2014-15 (JNCC 2017). Whilst this is a short term decrease there has been an overall long-term (since 2000-01) increase in spending on biodiversity in the UK (Figure 1). However, this figure is not reflective of the economic importance of biodiversity.



**Notes:**

1. Deflated using UK Gross Domestic Product Deflator.
2. Non-governmental spend is net of government funding.
3. Small revisions to past data as a result of improved estimation methodology can mean this chart is not directly comparable to previously published versions.

Source: Defra, Her Majesty's Treasury.

**Figure 1.** Expenditure on biodiversity in the UK, 2000-01 to 2015-16 (<http://jncc.defra.gov.uk/page-4251>)

Green spaces and contact with nature also provide a number of health and well-being benefits. A study by the University of Essex of behalf of The Wildlife Trusts, identified that volunteering improved people’s mental wellbeing in 6 to 12 weeks. In addition to higher levels of mental wellbeing, the study also found a range of other benefits to nature volunteering, including increased feelings of positivity, levels of physical activity and contact with nature (Rogerson *et al.* 2017).

The Every Child Outdoors report identified the positive impacts that contact with nature has on young people’s education, health and well-being, and personal and social skills, creating more responsible citizens. Children who connected with nature were also more likely to be interested in the environment and take part in nature-based activities (RSPB 2010).

Citizen science plays a key role in the recording and understanding of UK wildlife. With over 70,000 species of plant, animal and fungi currently found in the UK, it is essential for monitoring how species are responding to the ecological pressures currently faced in the UK. There are currently over 200 voluntary wildlife recording initiatives in the UK, recording 4.5 million wildlife observations annually (Hayhow *et al.* 2016). In Hampshire there are a number of specialist recording groups such as Hampshire mammal group, Hampshire bat group and Hampshire fungus recording group, as well as opportunities to submit data particularly with the promotion of online recording systems such as Living Record.



## 2.2. Planning & Biodiversity

Biodiversity is a key consideration in local decision making. Any new build or renovation plans in the parish should take the following into consideration.

The **National Planning Policy Framework (NPPF)** sets out the Government's requirements for the planning system and the development of local and neighbourhood plans. It sets out the purpose of the planning system; to achieve sustainable development through 3 key areas; economic, social and environmental. The environmental strand includes the protection and enhancement of the natural environment and improving biodiversity.

The NPPF highlights key points for consideration in relation to green space and biodiversity:

- the *promotion of healthy communities* requiring access to high quality open spaces including the ability to designate land as Local Green Space;
- the *protection of green belt land* to assist in safeguarding the countryside from encroachment, prevent neighbouring towns merging, preserve the setting and character of historic towns, assist in urban regeneration and to check the unrestricted sprawl of large built-up areas; and
- *conserving and enhancing the natural environment* through protection of valued landscapes, recognition of the benefits of ecosystem services, minimising impacts on biodiversity and providing net gains where possible.

**Natural Environment White Paper** (The Natural Choice: Securing the value of nature) provides a 'clear framework for protecting and enhancing the things that nature gives us for free' ([www.gov.uk](http://www.gov.uk)). Published in 2011, it outlines the Government's vision for the natural environment over the next 50 years and links with the National Ecosystem Assessment (UK NEA 2011) and Making Space for Nature (Saltmarsh, N. 2011).

Key measures in the White paper include:

- **Reconnecting Nature**
  - Nature Improvement Areas
  - Biodiversity offsetting
  - New local nature partnerships
  - Phasing out use of natural peat
- **Connecting people and nature for better quality of life**
  - Green areas designation
  - Green spaces
  - More children experiencing nature by learning outdoors
  - Strengthening local public health activities
  - New environmental volunteering initiative "Muck in 4 life"
- **Capturing and improving the value of nature**
  - natural capital committee
  - an annual statement of green accounts for UK Plc
  - a business-led task force

**Green Infrastructure** is the planning and delivery of a network of high quality green spaces and other environmental spaces at the strategic level which support the well-being of local communities. The areas should be publicly accessible and multi-functional. Winchester undertook a Green Infrastructure (GI) Study in 2010 to identify local assets and provide a locally distinctive definition of Green Infrastructure in support of policies in the Local Plan. For the district, GI encompasses the natural and semi-natural areas within and between settlements which benefit health and well-being, support sustainable travel, green tourism and adaptation to climate change (Enfusion 2010).

**Making Space for Nature** (Lawton review) was a review of England's wildlife sites and ecological network submitted to DEFRA by Sir John Lawton in 2010. The review introduced the concept of "More, bigger, better and joined"

Two key elements to the review were rebuilding nature and establishing an ecological network, with key factors identified to achieving them.

### **Rebuilding nature**

Five key approaches:

- Improve quality of current sites through better habitat management
- Increase the size of current wildlife sites
- Enhance connections between sites via corridors or stepping stones
- Create new sites
- Improve the wider environment to reduce pressure on wildlife, including the buffering of wildlife sites

### **Establishing a coherent and resilient ecological network**

This should be underpinned by 3 key objectives:

- to restore appropriate species and habitats
- to restore and secure the long-term sustainability of ecological and physical processes (enhancing the ability to deliver ecosystem services)
- provide access natural environments rich in wildlife for all

(Lawton, J. 2010)

The **England Biodiversity Strategy 2020** identifies how international and EU commitments are being implemented, setting out the strategic direction for biodiversity policy on land and at sea. Its mission is 'to halt overall biodiversity loss, support healthy well-functioning ecosystems and establish coherent ecological networks, with more and better places for nature for the benefit of wildlife and people.' (DEFRA 2011c)

**Biodiversity Opportunity Areas (BOAs)** are the regional priority areas of opportunity for restoration and creation of Biodiversity Action Plan habitats (SEB Strategy 2013), which is undertaken on a landscape-scale enabling the development of ecological networks. There are two partially within Hamble-le-Rice parish boundary: Hamble Valley and The Solent.

**Living Landscapes** is a Wildlife Trust initiative to restore, recreate and reconnect isolated habitats to make the whole landscape more wildlife-friendly. There is one partial living landscape area in the parish: East Solent Havens and Harbours.

#### **2.2.1. Protecting Habitats and Species**

The threat from development to protected habitats and species is on-going, resulting in habitat loss, reduction and fragmentation.

Obtaining protected species information to help support a case against inappropriate development and/or inappropriate mitigation is important. More information on how to comment on planning applications can be found on the Hampshire & Isle of Wight Wildlife Trust's website: <http://www.hiwwt.org.uk/we-influence-planning-systems>

In order to establish what species are present, a first step would be to request a background data for protected and notable species from Hampshire Biodiversity Information Centre (HBIC), the counties central repository for species records. Bat records are available separately from Hampshire Bat Group. This could then be supplemented by up-to-date surveys by local species groups, such as Hampshire bat group, volunteers and/or independent surveyors.

### **2.3. Legal context for Protection of Biodiversity**

#### **2.3.1. European Directives**

The parish has three designated sites partially within its boundary; Solent and Southampton Water SPA, Solent and Southampton Water Ramsar and Solent Maritime SAC.

European designated sites are the Special Areas of Conservation (SAC), Special Protection areas (SPA) and Ramsar sites (areas of international wetland importance). Together, these are known as 'Natura 2000' sites and are protected by European legislation. These directives all have implications

for local decision making and special care must be taken to ensure decisions and plans do not adversely impact on these European sites, the species or features for which they have been designated.

**Directive 92/43/EEC on the Conservation of Natural Habitats and of Wild Fauna and Flora (the 'Habitats Directive')** and **Directive 2009/147/EC on the Conservation of Wild Birds (the 'Birds Directive')**; These directives provide for the protection of European species and the habitats that support them including their habitats outside the designated areas.

**Directive 92/43/EEC (the Water Framework Directive)**; This requires member states to achieve stated targets for the protection and improvement of inland and coastal waters. The directive identifies 30 measures to assess and classify waterbodies, which includes their ecological status.

(Note: Full information on these directives can be found on the Joint Nature Conservation Committee (JNCC) website.)

The Hamble Estuary Partnership has guiding principles to ensure a collective approach. This includes one focusing on nature conservation, which at its broadest level is to encourage and enhance nature conservation interests of the Hamble in a sustainable manner (HCC 2015).

This legislation is translated into UK law by **The Conservation of Habitats and Species Regulations 2010** (commonly known as 'The Habitats Regulations').

***The Conservation of Habitats and Species Regulations 2010***

*Where impacts cannot be avoided or satisfactorily reduced/mitigated, the competent authority will need to ascertain that the plan or project will not have a negative impact on the designated site populations, which would otherwise constitute an adverse effect on the integrity of the international site as a whole.*

*\*Council Directive 92/43/EEC on the Conservation of Natural Habitats and of Wild Fauna and Flora (the 'Habitats Directive'); and Directive 2009/147/EC on the Conservation of Wild Birds (the 'Birds Directive').*

**2.3.2. UK Legislation**

The **Natural Environment and Rural Communities (NERC) Act 2006** requires every local authority to have regard to conserving biodiversity in the execution of their functions. Section 41 of the act lists 65 priority habitats and 1150 priority species, all of which are identified on the 'UK Post-2010 Biodiversity Framework' which succeeded the UK Biodiversity Action Plan, which should be taken into consideration by local authorities when implementing their duty under the NERC Act.

The **Wildlife and Countryside Act 1981** aimed to consolidate and amend national legislation to implement the Convention on the Conservation of European Wildlife and Natural Habitats (Bern Convention) and Council Directive 79/409/EEC on the conservation of wild birds (Birds Directive), which has since been replaced by Directive 2009/147/EC. This piece of legislation has been amended numerous times, and there is a statutory five year review of Schedules 5 and 8 (protected wild animals and plants) and period review of Schedule 9 (non-native species).

### 3. CURRENT STATUS OF BIODIVERSITY

The current status of biodiversity in the parish has been assessed through undertaking a series of botanical surveys at nine key sites identified by the parish council, to establish the habitats and potential species they can support, and are present in the parish.

Whilst these methods will not capture everything present, they will give an indication of current biodiversity interest and highlight areas for improvement for inclusion in the action plan.

#### 3.1. Background Data Search

A data search of Hampshire Biodiversity Information Centre (HBIC) protected and notable species GIS layer was undertaken for records within 2km of the parish. Species included in the search parameters are:

- species that are protected by international law;
- species listed in European directives and legislation;
- nationally protected species under The Wildlife & Countryside Act 1981 (as amended), Badgers Act 1992 and The Deer Act 1991;
- all species listed as Red or Amber on the Birds of Conservation Concern 2002-2007;
- plant species that are Nationally Rare or Nationally Scarce; and
- species that have Action Plans under the UK Biodiversity Action Plan (UKBAP) or are Priority Species under the Hampshire Biodiversity Action Plan (HBAP).

A data search was made for statutory (those that are internationally and nationally important sites for ecology) and non-statutory (those that are important in a local context) sites designated for nature conservation within 1km of the site boundary. This search included Special Protection Area (SPAs), Special Areas of Conservation (SACs), Ramsar, Sites of Special Scientific Interest (SSSIs), National Nature Reserves (NNRs), Local Nature Reserves (LNRs) and Sites of Importance for Nature Conservation (SINCs).

A map indicating the extent of the data search areas is provided in Appendix 1.

#### 3.2. Phase 1 Habitat Survey Methodology

An extended Phase 1 habitat survey was conducted on 28<sup>th</sup> September 2017 by Sarah Jackson (MCIEEM) and Deborah Whitfield of Arcadian Ecology & Consulting Ltd.

Nine key areas were identified by the parish council as priority for survey (Map 2). These were:

- Allotments
- Cemetery
- College playing field
- Donkey derby field
- Hamble green
- Heather gardens
- Mercury marshes
- Mount pleasant
- Westfield common

The Joint Nature Conservation Committee (JNCC) methodology for Phase 1 habitat survey was followed (Joint Nature Conservation Committee, 2010). A walkover survey of the site was undertaken, with areas classified and mapped using a standard set of colours on a Phase 1 Habitat Map to indicate the habitat types present. For each different habitat type a species list was compiled, with particular reference to protected, notable or BAP species; this list will not give every species found on the site, but will give a representation of the diversity, significance, and dominance of plant species found within each habitat type. The location of descriptions relating to specific areas and features of interest or note were annotated on the Phase 1 Habitat Map using Target Notes.

Plant nomenclature in this report follows Rose (1989; 2006) for native and naturalised species of vascular plant. Plant names in the text are given with the common names first, followed by the

scientific name in italics. Where there is a degree of doubt in the identification of a plant, 'cf.' precedes the specific epithet to signify the plant is very probably the species indicated, but it was not possible to distinguish it from similar members of the genus with certainty.

### 3.3. Background Data Search Results

#### 3.3.1. Protected and notable species

The background data search returned 5767 records for 456 protected and/or notable species, within 2km of the parish boundary. Of these, there were 444 records of 154 species specified as being within the parish. A breakdown by group is given in Table 2. .

**Table 2.** Background data search results

| Group                                                | Number of Species | Number of Species Specified as in Parish |
|------------------------------------------------------|-------------------|------------------------------------------|
| Amphibians & Reptiles                                | 7                 | 3                                        |
| Birds                                                | 140               | 77                                       |
| Higher Plants - Ferns                                | 3                 | -                                        |
| Higher Plants - Flowering Plants                     | 126               | 34                                       |
| Higher Plants – Horsetails                           | 1                 | -                                        |
| Invertebrates – Araneae (Spiders)                    | 1                 | -                                        |
| Invertebrates – Blattaria (Cockroaches)              | 3                 | 3                                        |
| Invertebrates – Coleoptera (Beetles)                 | 41                | 9                                        |
| Invertebrates – Dermaptera (Earwigs)                 | 1                 | 1                                        |
| Invertebrates – Diptera (Flies)                      | 5                 | 2                                        |
| Invertebrates – Hemiptera (True bugs)                | 9                 | 1                                        |
| Invertebrates –Hymenoptera (Bees)                    | 13                | 1                                        |
| Invertebrates – Lepidoptera (Butterflies & Moths)    | 71                | 9                                        |
| Invertebrates – Mollusca                             | 2                 | -                                        |
| Invertebrates – Odonata (Dragonflies & Damselflies)  | 5                 | 1                                        |
| Invertebrates – Orthoptera (Grasshoppers & crickets) | 2                 | 1                                        |
| Lichens                                              | 1                 | 1                                        |
| Lower Plants – Liverworts, Hornworts & Mosses        | 9                 | 1                                        |
| Mammals – Marine                                     | 2                 | 1                                        |
| Mammals - Terrestrial (bats)                         | 9                 | 8                                        |
| Mammals - Terrestrial (non-bats)                     | 5                 | 1                                        |

Full results are provided in Appendix 2.

#### 3.3.2. Statutory and non-statutory designated sites

There are four statutory designated sites at least partially within the parish boundary, Lee-on-the-Solent to Itchen Estuary SSSI, Solent Maritime SAC, Solent & Southampton Water SPA and Solent & Southampton Water Ramsar. In addition, Lincegrove and Hackett's Marshes, and Hythe to Calshot Marshes SSSI are within 2km of the parish boundary. As shown on the map in Appendix 3.

Seven non-statutory designated sites, SINCs, are found either entirely or partially within the parish boundary, as detailed in Table 4 and shown on the map in Appendix 4. In addition, there are a further 40 SINCs within 2km of the parish, which have been included on the map in Appendix 4.

**Table 4.** SINC's within Hamble Le Rice parish boundary

| SINC Ref | SINC Name                               | Central Grid Ref. | SINC Criteria | Notables                                                                                                                                                                                                                                               |
|----------|-----------------------------------------|-------------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EA0077   | Hamble Common North                     | SU48200640        | 2A            |                                                                                                                                                                                                                                                        |
| EA0083   | Mercury Marsh South                     | SU48450745        | 4A            |                                                                                                                                                                                                                                                        |
| EA0076   | Hamble Common West                      | SU48200620        | 3A/3Bii       |                                                                                                                                                                                                                                                        |
| EA0085   | Mercury Marina Saltmarsh                | SU48600800        | 4A/6A         | Althaea officinalis (Marsh-Mallow) [NS]; Lotus glaber (Narrow-Lvd Bird's-Foot-Trefoil) [CS]; Oenanthe lachenalii (Parsley Water-Dropwort) [CS]; Polypogon monspeliensis (Annual Beard-Grass) [NS]; Puccinellia distans (Reflexed Saltmarsh-Grass) [CS] |
| EA0055   | Petters Copse                           | SU47300670        | 1A            |                                                                                                                                                                                                                                                        |
| EA0147   | Netley to Hamble Shore                  | SU46470734        | 4A            |                                                                                                                                                                                                                                                        |
| EA0047   | West Wood (Royal Victoria Country Park) | SU47000750        | 1A/1Cii/5B    |                                                                                                                                                                                                                                                        |

### 3.4. Phase 1 Habitat Survey Results

A summary of the Phase 1 habitat survey, plus more detailed descriptions of each of the survey sites is provided below. A full species list is provided in Appendix 5.

#### 3.4.1. Summary

##### Habitats

There are a range of habitats present across the parish, including amenity grassland, woodland, scrub, and coastal habitats such as saltmarsh, coastal woodland and shingle. The most dominant habitat, amenity grassland, is of limited ecological value, however the edge habitats which include hedgerows and trees create diversity, structure and cover, which is able to support a range of species.

##### Protected and Notable Species

No protected or notable species were recorded during the Phase 1 habitat survey. However, based on the habitat types and features identified around the parish, it is considered that the parish has the potential to support common amphibians, common and widespread reptiles, bats, birds including wader species, and common and widespread invertebrates.

##### Conclusion

Hamble-le-Rice has a range of habitats, with linked areas of green space within the parish and to the wider landscape offering opportunities for species to move around the landscape. Whilst many of the high ecological value habitats are not extensive, they offer important space for foraging and shelter, particularly for invertebrates, which in turn provides a food source for bats and birds.

Further enhancements to the parish could be made, and more detail is included in the biodiversity action tables.

#### 3.4.2. Allotments

The allotments are an approximately 0.5 hectare area divided into plots, growing a variety of fruits, vegetables and flowers (Photograph 1). The area is bounded by grasses, forbs, ruderals and trees,

including cock's-foot *Dactylis glomerata*, false oat grass *Arrhenatherum elatius*, herb-robert *Geranium robertianum*, ivy *Hedera helix*, common nettle *Urtica dioica* and ash *Fraxinus excelsior*.

### **3.4.3. Cemetery**

The cemetery to the south of St Andrews Church is mainly an area of rough grassland bounded by trees and hedgerows, over an area of 0.4 hectares. The grounds team have already reduced the mowing regime to create zones of longer grass which are already attracting wildlife, including an emperor dragonfly *Anax imperator* seen during the survey. The area to the north, around the headstones, is more frequently mown (Photograph 2).

There are a range of grasses and forbs, the most abundant being cock's-foot, common knapweed *Centaurea nigra*, lesser stitchwort *Stellaria graminea*, wood avens *Geum urbanum* and yarrow *Achillea millefolium*. The hedging and trees which bound the site are dominated by cherry laurel *Prunus laurocerasus*, conifer *Cupressus sp.* and hornbeam *Carpinus betulus*.

### **3.4.4. College playing field**

The college playing field is an approximately 3.2 hectare area of amenity grassland. It is dominated by short mown grasses, such as annual meadow grass *Poa annua*, cock's-foot and perennial rye grass *Lolium perenne*. It is bounded by fencing to the north and east, with shrubs and trees to the south and west, comprising species such as cherry *Prunus sp.*, field maple *Acer campestre*, lime *Tilia sp.* and rowan *Sorbus aucuparia*.

The area to the east of the playing field, where the community orchard is proposed, is distinguished by longer vegetation with grasses and forbs including creeping buttercup *Ranunculus repens*, common mallow *Malva sylvestris*, redshank *Persicaria maculosa* and scarlet pimpernel *Anagallis arvensis*, and scattered trees including pear *Pyrus sp.* and hornbeam (Photograph 3).

### **3.4.5. Donkey derby field**

Donkey derby field covers approximately 0.7 hectares. It is an area of amenity grassland but does not have a short mown sward allowing a more diverse mix of grass and forbs to develop (Photograph 4). The field is occasionally used as overflow parking for events. The field contains species typical of amenity grassland with grasses being dominant, including annual meadow grass, cock's-foot, common bent *Agrostis capillaris*, red fescue *Festuca rubra agg.* and Yorkshire fog *Holcus lanatus*, but interspersed with forbs and ruderals such as broad-leaved dock *Rumex obtusifolius*, common nettle *Urtica dioica*, dandelion *Taraxacum agg.* and ribwort plantain *Plantago lanceolata*.

The area is bounded by hedgerow, trees and fencing. The hedgerow includes a number of garden variants, due to the west of the site being adjacent to housing. This includes box *Buxus sp.*, cotoneaster *Cotoneaster sp.*, garden privet *Ligustrum ovalifolium* and a gorse species *Ulex sp.*

The presence of common bent, Sheep's sorrel *Rumex acetosella* and gorse species suggest slightly more acidic conditions within the grassland.

### **3.4.6. Hamble green**

Hamble green is a small, 0.3 hectare, village green to the south east of the village. It comprises short mown amenity grassland including annual meadow grass, common bent, ribwort plantain, white clover *Trifolium repens* and yarrow, with scattered trees, namely copper beech *Fagus sylvatica f. purpurea*, pedunculate oak *Quercus robur*, small-leaved lime *Tilia cordata*, sycamore *Acer pseudoplatanus* and a hybrid lime species *Tilia sp.* (Photograph 5).

### **3.4.7. Heather gardens**

Heather gardens is an area of historical garden which, through succession, has developed into a small woodland of 0.9 hectares (Photograph 6). The canopy is dominated by sycamore, with some very large specimens within the woodland. Other trees within the canopy include beech *Fagus sylvatica*, maple species *Acer sp.*, pedunculate oak, pine species *Pinus sp.* and silver birch *Betula pendula*. There are smaller trees scattered throughout the site, such as elder *Sambucus nigra*, elm *Ulmus sp.*, hazel *Corylus avellana* and yew *Taxus baccata*. The shrub and ground flora layers are less extensive, but include bracken *Pteridium sp.*, bramble *Rubus fruticosus*, Butcher's-broom *Ruscus*

*aculeatus*, ivy, male fern *Dryopteris filix-mas*, sweet flag *Acorus calamus* (county and south Hampshire scarce) and wood avens.

There is an area of bamboo *Bambusoideae* sp. to the south of site which is already subject to management to try and control its spread. Cherry laurel *Prunus laurocerasus* and rhododendron *Rhododendron ponticum* are also present, and their extent and spread should be monitored.

#### **3.4.8. Mercury marshes**

Mercury marshes is a 1.2 hectare area of scrub, woodland and reedbed with grass footpaths on the banks of the River Hamble (Photograph 7). It is adjacent to the more extensive Hampshire County Council Mercury Marshes Local Nature Reserve, and as such the reedbeds within the parish council's ownership are managed by the County Council, as part of their cutting regime.

The reedbed of common reed *Phragmites australis* dominates the eastern area of the site. Moving inland from the river and reedbed, there is a mix of smaller habitats including wet woodland dominated by willow species *Salix* sp., scrub and trees over a ditch leading to the river which has both native and garden species including pendulous sedge *Carex pendula*, pampus grass *Cortaderia selloana*, rhododendron, cherry *Prunus* sp., bamboo, fig *Ficus carica* and field maple; hedge planting comprising dogwood *Cornus sanguinea*, blackthorn *Prunus spinosa*, hazel and broom *Cytisus scoparius* spp *scoparius*; all habitats are interspersed with footpaths of short grass such as cock's-foot and creeping bent *Agrostis stolonifera*, with occasional forbs including red clover *Trifolium pratense*, cat's ear *Hypochaeris radicata* and redshank.

#### **3.4.9. Mount pleasant**

Mount pleasant is an amenity grassland, play area, car park and woodland covering 5.2 hectares (Photograph 8). The grassland is kept short, as it used for football at the weekends, with grasses such as annual meadow grass, cock's-foot and common bent most prolific in the sward. There is a small woodland to the west of the site, and scrub and trees to the south of the site. These areas include species such as apple *Malus pumila*, ash, bramble *Rubus fruticosus*, cherry, elder, elm, horse chestnut *Aesculus hippocastanum*, ivy, nettle, pedunculate oak and sycamore. The ground flora, comprising grasses, forbs and ruderals, is also longer in these areas.

#### **3.4.10. Westfield common**

Westfield common is on the shores of Southampton Water. It is an approximately 2.7 hectare of coastal woodland, coastal grassland and shingle (Photograph 9). It comprises a diverse mix of species including coastal, salt tolerant specialists such as sea beet *Beta vulgaris* subsp. *Maritima* and sea couch *Agropyron pungens*. The woodland and adjacent grassy footpaths include a range of trees, shrubs, scrub, ruderals, grasses and forbs, reflecting its coastal location, but also its close proximity to gardens and being used as an amenity space. Species found in the area include ash, blackthorn, bracken, Butcher's-broom, cock's-foot, ragwort *Senecio jacobea*, gorse, holly, ivy, pedunculate oak, sycamore, white clover and wood avens.



## 4. ACTION TABLE

Based on the results of the background data search, extended Phase 1 survey and discussions with the parish council, suitable actions have been developed that will improve the biodiversity interest of the parish. Actions are focussed on providing a connected space for wildlife across the parish.

Some of the actions listed are already underway; others are potential projects, while others are aspirational, they represent ideal actions given sufficient resources and time. The actions listed represent the current priorities. Priorities will, however, change for many reasons, hence the need for regular review of this BAP.

The action table has been divided into site specific actions for the sites surveyed and more generic actions that can be applied parish-wide.

Each action table is divided into 5 main columns; Objective, Action, Outcome, Targets and Reporting Method. Objectives are the overall aim of undertaking the action, actions are the key activities that need to be undertaken, outcomes are the benefits to biodiversity that will be achieved, the targets are the steps that need to be fulfilled by the end of the stated years, and the reporting method identifies how progress towards the final objective is going to be monitored. Some targets also include management suggestions on how best to achieve the target, these should be incorporated into the management plans for the sites.

4.1. Hamble-le-Rice Action Table

|          | OBJECTIVE               | ACTION                                                                | OUTCOME                                                                                                        | TARGET (YEARS)                                                                                                                                                                                             |                                         |                                                                                                 | REPORTING METHOD          |                                                                |
|----------|-------------------------|-----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------------------------------------------|---------------------------|----------------------------------------------------------------|
|          |                         |                                                                       |                                                                                                                | 1- 2                                                                                                                                                                                                       | 3 – 5                                   | 6 – 10                                                                                          |                           |                                                                |
| Cemetery | More space for wildlife | Create a bog garden in suitable location not assigned to burial plots | <p>Increased habitat for amphibians, dragonflies and damselflies</p> <p>Peaceful place for visitors to sit</p> | <p>Bog garden created in suitable area.</p> <p><i>Management:</i><br/>Dig out hole for bog garden, line and refill with soil. Plant with suitable native species.</p> <p>Further details in Appendix 6</p> | Bog garden with established vegetation. | Bog garden able to support a diversity of species including invertebrates, amphibians & plants. | Annual biodiversity check | Burial Comm to consider in conjunction with reps of St Andrews |
| Cemetery |                         | Install a raised bird bath                                            | <p>Fresh water for birds for drinking and bathing</p> <p>Close contact with nature for visitors</p>            | Locate bird bath near to a hedge but far enough away so that it is in the open so birds are not vulnerable to predators e.g. cats, hiding in the hedge                                                     |                                         |                                                                                                 | Annual biodiversity check | Burial Comm to consider                                        |

|          |  |                                           |                                                                    |                                                                                                                                                                                                                                                           |  |  |                           |                                       |
|----------|--|-------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|---------------------------|---------------------------------------|
| Cemetery |  | Retain areas of longer grass for wildlife | Shelter and food source for invertebrates, birds and small mammals | <p>Reduce mowing frequency to allow wildflowers to grow and set-seed</p> <p>Areas retained for over-wintering invertebrates and seed source for birds</p> <p><i>Management:</i><br/>Cut each autumn, but retaining an area of approximately 25% uncut</p> |  |  | Annual biodiversity check | Larger area of grass to be left uncut |
|----------|--|-------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|---------------------------|---------------------------------------|

|                       |  |                                                                                     |                                                                 |                                                                                                                                 |                                                                                                                                                                         |                                                                                                        |                           |                                                               |
|-----------------------|--|-------------------------------------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|---------------------------|---------------------------------------------------------------|
| Donkey Derby Field    |  | Acid grassland restoration                                                          | Species rich grassland                                          | Test soil for current pH and suitability for restoration                                                                        | Allow taller sward height around edges (ecotones)                                                                                                                       | Maintain grassland through mowing regime                                                               | Annual biodiversity check | RC to test soil                                               |
|                       |  | HBIC habitat opportunity mapping identifies the area as suitable for acid grassland |                                                                 | Depending on soil pH will need to modify mowing regime and/or strip and re-seed to introduce species (See advice in Appendix 7) | Mow circular path into grassland to manage access<br><br>Periodic creation of areas of bare ground<br><br>Appropriate mowing regime as sward develops                   | <i>Management:</i><br>Mow 80% of sward on rotation (uncut area changed each time) in May and September |                           | Bottom right corner close to Heather Gardens to be left uncut |
| College playing field |  | Install bee hives in new orchard                                                    | Community engagement<br><br>Encouraging natural pollination     |                                                                                                                                 |                                                                                                                                                                         | Install bee hives when orchard trees have become established                                           |                           | Annual biodiversity check                                     |
| Heather gardens       |  | Increased standing dead wood                                                        | Retention of trees as habitat for invertebrates, birds and bats |                                                                                                                                 | Any trees identified as hazardous retained as monoliths if safe to do so<br><br><i>Management:</i><br>Additional holes drilled to create cavities and stimulate rotting |                                                                                                        | Annual biodiversity check |                                                               |

|                |  |                                              |                                                               |                                                                                                                                                                                                        |                                                                     |                                                                                                 |                           |                                                                                                                     |
|----------------|--|----------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|---------------------------|---------------------------------------------------------------------------------------------------------------------|
| Mount Pleasant |  | Create a bog garden in suitable wet location | Increased habitat for amphibians, dragonflies and damselflies | Bog garden created in suitable wet area.<br><br><i>Management:</i><br>Dig out hole for bog garden, line and refill with soil. Plant with suitable native species.<br><br>Further details in Appendix 6 | Bog garden with established vegetation.                             | Bog garden able to support a diversity of species including invertebrates, amphibians & plants. | Annual biodiversity check | Consider suitable locations.<br><br>Work with school? And/ or volunteer groups. Eg Scouts, corporate community days |
| Parish-wide    |  | Installation of bat boxes                    | Increased roosting provision for bats                         | Install 5 bat boxes across the parish                                                                                                                                                                  | If bat boxes not being used by year 5, site in a different location |                                                                                                 | Bat box check             | <b>Hampshire Bat Group contacted – no response so far</b><br><br>Conservation volunteers                            |
| Parish-wide    |  | Installation of bird boxes                   | Increased nesting provision for birds                         | Erection of at least 4 boxes across the parish                                                                                                                                                         |                                                                     |                                                                                                 | Bird box check            | Contact Hamble Conservation Volunteers?                                                                             |

|                    |  |                                                                                    |                                                                                                                                                                                                                                                |                                                                                                                                                                                                 |  |  |                                  |                                                                                                                                                                                                                                   |
|--------------------|--|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Parish-wide</b> |  | <p>Create holes in garden fences for hedgehogs</p>                                 | <p>Hedgehogs able to move around the landscape</p> <p>Part of a national scheme 'Hedgehog Street' <a href="http://www.hedgehogstreet.org">www.hedgehogstreet.org</a></p> <p>Opportunity for engagement with neighbours and local community</p> | <p>Cut 13cm x 13cm holes at base of fence, at approximately 20 metre intervals.</p>                                                                                                             |  |  | <p>Annual biodiversity check</p> | <p>Raise awareness through magazine.</p> <p>Include in planning responses or Village Design Plan?</p>                                                                                                                             |
| <b>Parish-wide</b> |  | <p>Develop ecotones (transitional habitats) along boundaries of amenity spaces</p> | <p>Increased cover for invertebrates and small mammals</p> <p>Food source for invertebrates, birds and small mammals</p>                                                                                                                       | <p>Reduce mowing frequency along base of hedge extending up to 1 metre into field to develop gradient in vegetation from hedge into tall ruderals, herbs, long grass and amenity grassland.</p> |  |  | <p>Annual biodiversity check</p> | <p><b>Barnaby's Field</b></p> <p><b>Rail Trail both sides</b></p> <p><b>Woodpecker Walk Strip by privet /edge of Spitfire Way</b></p> <p><b>College Playing Fields Orchard area</b></p> <p><b>Mount Pleasant Bank GE side</b></p> |

|                        |                                               |                                                                                                                                 |                                                                                                                                                                                                                                                                                                           |                                                                           |                                                                                                                  |  |                                                                    |                                                                                                                                                                                          |
|------------------------|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Parish-wide</b>     |                                               | Provision of log piles in rough grassland area                                                                                  | More shelter and space for amphibians, reptiles and invertebrates                                                                                                                                                                                                                                         |                                                                           | Installation of at 3 log piles                                                                                   |  | Annual biodiversity check                                          | <b>Log piles :</b><br>Heather Gardens<br>Village Green<br>(5/02/2018)<br><br>Photos for website and explanation in V Mag<br><br>Barnaby's Field<br><br>Rail Trail<br><br>Woodpecker Walk |
| <b>Parish-wide</b>     | <b>Provision of food sources for wildlife</b> | Appropriate species planting to habitats and landscape                                                                          | Connected habitats to aid movement of wildlife through the landscape                                                                                                                                                                                                                                      | Only use locally sourced, native species for new and replacement planting |                                                                                                                  |  | Annual biodiversity check                                          | Publish details of native species on Parish Council website<br><br>Landscaping plans for new developments request native species                                                         |
| <b>Heather gardens</b> | <b>Create a woodland management plan</b>      | Write a woodland management plan<br><br>Once plan is written, can potentially apply for funding through countryside stewardship | Woodland designed and managed for the benefit of people and wildlife<br><br>Glade and ride creation allowing more light for understorey plants and attracting invertebrates<br><br>Formal access paths to manage access and protect ground flora from trampling and reduce disturbance to breeding birds. | Produce a woodland management plan                                        | Explore funding opportunities if required e.g. countryside stewardship<br><br>Implement woodland management plan |  | Approved woodland management plan<br><br>Annual biodiversity check | Richard to investigate                                                                                                                                                                   |

|                 |  |                                                                                                                                            |                                             |                                                                                                            |                                                                                                    |                                                                                                                                            |                                                                       |                                                                                                               |
|-----------------|--|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Heather gardens |  | Prune trees to allow more light to reach ground and understorey to develop and/or consider planting native species (with deer guards)      | Increased diversity of habitats             |                                                                                                            | Trees pruned to create some lighter areas                                                          | Understorey developing. Planting may be required if not occurring naturally e.g. honeysuckle, holly, hazel<br><br>'Layers' within woodland | Annual biodiversity check<br><br>Detailed in woodland management plan | Agree programme of work with other organisations to remove the non - native species and clear the undergrowth |
| Heather gardens |  | Undertake a tree inventory, logging and assessing mature trees for veteran tree status. Share with HBIC and assign TPO (where appropriate) | Protection of important trees in the parish | Produce an inventory of mature trees within Heather Gardens                                                |                                                                                                    |                                                                                                                                            | Tree Inventory<br><br>Detailed in woodland management plan            | Volunteer Tree Warden or Work with Hamble Conservation Volunteers                                             |
| Heather gardens |  | Introduce coppicing regime                                                                                                                 | Increased diversity of habitats             | Introduce 8-10 year coppicing regime for existing hazel<br><br>Create mosaic of coups for coppice rotation | Plant additional species suitable for coppicing e.g. sweet chestnut, hazel and willow, if required |                                                                                                                                            | Annual biodiversity check<br><br>Detailed in woodland management plan |                                                                                                               |



|                              |                             |                                                                               |                                                                                                                       |                                                                                                                                              |                                 |                        |                           |                                                                                                                                                                |
|------------------------------|-----------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Parish-wide</b>           | <b>Create ecotones</b>      | Reduce management around hedge bases to soften edges and vary structure       | Increased cover for invertebrates and small mammals<br><br>Food source for invertebrates, birds and small mammals     | Reduce mowing frequency along hedges to develop gradient in vegetation from shrubs to tall ruderals, herbs, long grass and amenity grassland |                                 |                        | Annual biodiversity check |                                                                                                                                                                |
| <b>College playing field</b> | <b>Community engagement</b> | Plant a community orchard                                                     | Increased engagement and sense of ownership of green spaces<br><br>Additional food source for birds and invertebrates | Saplings planted                                                                                                                             |                                 | Productive fruit trees | Annual biodiversity check | <b>First phase complete</b><br><br>Second phase autumn 2018                                                                                                    |
| <b>Parish-wide</b>           |                             | Create a volunteer work party to undertake clean-ups of the beach and village | Increased engagement and sense of ownership of green spaces                                                           | Hold first beach clean-up linked with Marine Conservation Society's 'Great British Beach Clean'                                              | Organise twice annual clean-ups |                        | Volunteer records         | Regular beach cleans already organised by conservation volunteers.<br><br>Consider reporting results ie how many sacks, unusual finds etc in V Mag and website |

|             |  |                                                                                                                                                      |                                                                                                                     |                                                                                                                             |                                                                                    |  |                                      |                                                                                                                    |
|-------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--|--------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Parish-wide |  | Information exchange – contact local Wildlife Trust for press releases and suitable news articles that cover topics such as disposal of garden waste | Awareness of wildlife issues e.g. effects of non-native species on local wildlife, value of wildlife gardening etc. | Regular articles in parish magazine and on website on relevant topics e.g. encouraging appropriate disposal of garden waste |                                                                                    |  | Publications in magazine and webpage | Jeanette & Jack<br>Initially report outcome of survey and planned actions.                                         |
| Parish-wide |  | Create page on parish website for recording species and links to useful information and websites                                                     | Increased engagement and sense of ownership of green spaces                                                         | Develop page to allow submission of records and photos. Link to online recording system – Living Record                     | Update with articles or links to local/national projects and sightings of interest |  | Webpage counter                      | Investigate examples already in place.<br><br>Set up separate page for each specific area                          |
| Parish-wide |  | Invest in trail cameras and set-up loan scheme for local residents                                                                                   | Increased engagement with local community<br><br>Generate more species records for the parish                       |                                                                                                                             |                                                                                    |  | Number of species records for parish |                                                                                                                    |
| Parish-wide |  | Invite specialist groups to survey a site e.g. Hampshire bat group, Hampshire fungus recording group                                                 | Generate more species records for the parish                                                                        | Invite Hampshire bat group to undertake a walk around heather gardens and Hamble green                                      |                                                                                    |  | Number of species records for parish | Hampshire Bat Group contacted but no response to date<br><br>Butterfly Conservation<br><br>Blue Marine<br><br>RSPB |

|                        |                                                      |                                                                                                            |                                                                                                                                    |                                                        |                                                                                                                                              |                                                          |                           |                                                                                                                                                         |
|------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Parish-wide</b>     |                                                      | Hold a BioBlitz to increase knowledge of species found in the parish                                       | Increased awareness of natural environment<br><br>Engagement with local community                                                  |                                                        | Organise day to hold BioBlitz, contacting local experts and organizations to help with species ID<br><br>Recruit volunteers to assist on day | Hold BioBlitz<br><br>Disseminate results to participants | Count of attendees        |                                                                                                                                                         |
| <b>Parish-wide</b>     |                                                      | Traditional woodland crafts event                                                                          | Learn new skills<br><br>Engagement with local community                                                                            |                                                        | Hold event using coppiced material from Heather Gardens to make crafts                                                                       |                                                          | Count of attendees        |                                                                                                                                                         |
| <b>Cemetery</b>        | <b>Encouraging recycling of natural waste</b>        | Build compost bin                                                                                          | Encourage appropriate disposal of garden waste<br><br>Additional habitat for wildlife<br><br>Source of compost for future planting | Build compost bin in suitable location within cemetery |                                                                                                                                              |                                                          | Annual biodiversity check | Burial Ground Comm Already committed to install compost bins. Design shortlisted<br><br>Discuss with reps of St Andrews<br><br>Order or commission bins |
| <b>Heather gardens</b> | <b>Remove garden variants and non-native species</b> | Continue to tackle bamboo until permanently removed from site<br><br>Remove Rhododendron and cherry laurel | Invasive, non-native species removed                                                                                               | Remove non-native species before they spread           | Monitor for recurrence, and remove/treat as necessary                                                                                        |                                                          | Annual biodiversity check |                                                                                                                                                         |

|                    |  |                                                                                                                           |                                                                                                  |                                                                                                                                                             |                                                       |                             |                           |  |
|--------------------|--|---------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------|---------------------------|--|
| <b>Parish-wide</b> |  | Remove non-native species: bamboo, cherry laurel, pampas grass and Rhododendron                                           | Invasive, non-native species removed from parish                                                 | Remove non-native species before they spread                                                                                                                | Monitor for recurrence, and remove/treat as necessary |                             | Annual biodiversity check |  |
| <b>Parish-wide</b> |  | Use native species only for hedgerow planting<br><br>Encourage local residents to use native species in their own gardens | Increased food sources for invertebrates and birds<br><br>More native species, diverse hedgerows | Any new or replacement hedgerow planting should be with native species only. Use variety of species to create diversity of seed and fruit producing species |                                                       | More species diverse hedges | Annual biodiversity check |  |

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**MAPS**

## **PHOTOGRAPHS**





**Photograph 1:** Plots in allotment



**Photograph 2:** Different mowing regimes in cemetery



**Photograph 3:** Area for proposed orchard on college playing field



**Photograph 4:** Donkey derby field



**Photograph 5:** Hamble green



**Photograph 6:** Heather gardens



**Photograph 7:** Mercury marshes



**Photograph 8:** Mount pleasant recreation ground



**Photograph 9:** Westfield common

## **APPENDICES**

**Appendix 1:**  
Map showing extent of background data search area

**Appendix 2:**  
Protected and notable species background data search results



## Appendix 2. Protected and notable species background data search results

Search Area: Within 2km of Hamble-le-Rice parish boundary

Date: 14/11/2017

| Group Name            | Taxon Name                     | Common Name            | Status                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | First Year Recorded | Last Year Recorded | Number of Records |
|-----------------------|--------------------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------|-------------------|
| Amphibians & Reptiles | <i>Anguis fragilis</i>         | Slow-worm              | <ul style="list-style-type: none"> <li>Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006</li> </ul>                                                                                                                                                                                                                                                                                                                   | 2002                | 2016               | 295               |
|                       | <i>Bufo bufo</i>               | Common Toad            | <ul style="list-style-type: none"> <li>Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006</li> </ul>                                                                                                                                                                                                                                                                                                                   | 2003                | 2007               | 3                 |
|                       | <i>Natrix natrix</i>           | Grass Snake            | <ul style="list-style-type: none"> <li>Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006</li> </ul>                                                                                                                                                                                                                                                                                                                   | 2005                | 2009               | 17                |
|                       | <i>Rana temporaria</i>         | Common Frog            | <ul style="list-style-type: none"> <li>Annex V Habitats Directive</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                           | 2005                | 2016               | 11                |
|                       | <i>Triturus cristatus</i>      | Great Crested Newt     | <ul style="list-style-type: none"> <li>Annex II of the Habitats Directive (non-priority species)</li> <li>Annex V Habitats Directive</li> <li>Schedule 2 of Conservation of Habitats &amp; Species Regulations 2010</li> <li>Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006</li> <li>Schedule 5 Section 9 (4b); Schedule 5 Section 9 (4c) of Wildlife &amp; Countryside Act 1981</li> <li>Hampshire BAP</li> </ul> | 2005                | 2013               | 27                |
|                       | <i>Vipera berus</i>            | Adder                  | <ul style="list-style-type: none"> <li>Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006</li> </ul>                                                                                                                                                                                                                                                                                                                   | 2003                | 2013               | 6                 |
|                       | <i>Zootoca vivipara</i>        | Common Lizard          | <ul style="list-style-type: none"> <li>Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006</li> </ul>                                                                                                                                                                                                                                                                                                                   | 2002                | 2015               | 31                |
| Birds                 | <i>Acanthis cabaret</i>        | Lesser Redpoll         | <ul style="list-style-type: none"> <li>Birds of Conservation Concern Red List</li> <li>Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006</li> </ul>                                                                                                                                                                                                                                                                   | 1997                | 2016               | 70                |
|                       | <i>Acanthis flammea</i>        | Common (Mealy) Redpoll | <ul style="list-style-type: none"> <li>County Interest</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                      | 2006                | 2013               | 2                 |
|                       | <i>Accipiter gentilis</i>      | Goshawk                | <ul style="list-style-type: none"> <li>Schedule 1 Part 1 of Wildlife &amp; Countryside Act 1981</li> <li>County Rare</li> </ul>                                                                                                                                                                                                                                                                                                                                        | 2016                | 2016               | 1                 |
|                       | <i>Acrocephalus scirpaceus</i> | Reed Warbler           | <ul style="list-style-type: none"> <li>Hampshire BAP</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                        | 1993                | 2016               | 208               |

|  |                                          |                            |                                                                                                                                                                                                                                                                 |      |      |     |
|--|------------------------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-----|
|  | <i>Alauda arvensis</i>                   | Skylark                    | <ul style="list-style-type: none"> <li>• Birds of Conservation Concern Red List Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006</li> <li>Hampshire BAP</li> </ul>                                            | 1996 | 2016 | 94  |
|  | <i>Alcedo atthis</i>                     | Kingfisher                 | <ul style="list-style-type: none"> <li>• Annex I of the Birds Directive</li> <li>Schedule 1 Part 1 of Wildlife &amp; Countryside Act 1981</li> </ul>                                                                                                            | 1994 | 2016 | 820 |
|  | <i>Anas clypeata</i>                     | Shoveler                   | <ul style="list-style-type: none"> <li>• County Rare</li> </ul>                                                                                                                                                                                                 | 1993 | 2016 | 505 |
|  | <i>Anas querquedula</i>                  | Garganey                   | <ul style="list-style-type: none"> <li>• Schedule 1 Part 1 of Wildlife &amp; Countryside Act 1981</li> </ul>                                                                                                                                                    | 1994 | 2016 | 51  |
|  | <i>Anas strepera</i>                     | Gadwall                    | <ul style="list-style-type: none"> <li>• Hampshire BAP</li> </ul>                                                                                                                                                                                               | 1993 | 2016 | 537 |
|  | <i>Anser albifrons</i>                   | White-fronted Goose        | <ul style="list-style-type: none"> <li>• Birds of Conservation Concern Red List</li> <li>Hampshire BAP</li> </ul>                                                                                                                                               | 2007 | 2015 | 3   |
|  | <i>Anser erythropus</i>                  | Lesser White-fronted Goose | <ul style="list-style-type: none"> <li>• Annex I of the Birds Directive</li> </ul>                                                                                                                                                                              | 2002 | 2002 | 1   |
|  | <i>Anthus petrosus</i>                   | Rock Pipit                 | <ul style="list-style-type: none"> <li>• County Rare</li> </ul>                                                                                                                                                                                                 | 1993 | 2016 | 600 |
|  | <i>Anthus petrosus subsp. littoralis</i> | Scandinavian Rock Pipit    | <ul style="list-style-type: none"> <li>• County Rare</li> </ul>                                                                                                                                                                                                 | 2003 | 2003 | 1   |
|  | <i>Anthus spinoletta</i>                 | Water Pipit                | <ul style="list-style-type: none"> <li>• County Scarce</li> </ul>                                                                                                                                                                                               | 2003 | 2016 | 12  |
|  | <i>Anthus trivialis</i>                  | Tree Pipit                 | <ul style="list-style-type: none"> <li>• Birds of Conservation Concern Red List Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006</li> </ul>                                                                   | 1993 | 2016 | 91  |
|  | <i>Ardea cinerea</i>                     | Grey Heron                 | <ul style="list-style-type: none"> <li>• County Scarce</li> </ul>                                                                                                                                                                                               | 1993 | 2016 | 332 |
|  | <i>Arenaria interpres</i>                | Turnstone                  | <ul style="list-style-type: none"> <li>• Hampshire BAP</li> </ul>                                                                                                                                                                                               | 1993 | 2016 | 540 |
|  | <i>Asio flammeus</i>                     | Short-eared Owl            | <ul style="list-style-type: none"> <li>• Annex I of the Birds Directive</li> </ul>                                                                                                                                                                              | 1994 | 2015 | 50  |
|  | <i>Asio otus</i>                         | Long-eared Owl             | <ul style="list-style-type: none"> <li>• County Rare</li> </ul>                                                                                                                                                                                                 | 2010 | 2010 | 1   |
|  | <i>Aythya ferina</i>                     | Pochard                    | <ul style="list-style-type: none"> <li>• Birds of Conservation Concern Red List</li> <li>Hampshire BAP</li> <li>County Scarce</li> </ul>                                                                                                                        | 1993 | 2016 | 117 |
|  | <i>Aythya marila</i>                     | Scaup                      | <ul style="list-style-type: none"> <li>• Birds of Conservation Concern Red List Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006</li> <li>Schedule 1 Part 1 of Wildlife &amp; Countryside Act 1981</li> </ul> | 1994 | 2010 | 19  |

|  |                                   |                      |                                                                                                                                                                                                                                                                                       |      |      |          |
|--|-----------------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|----------|
|  | <i>Botaurus stellaris</i>         | Bittern              | <ul style="list-style-type: none"> <li>Annex I of the Birds Directive</li> <li>Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006</li> <li>Schedule 1 Part 1 of Wildlife &amp; Countryside Act 1981</li> <li>Hampshire BAP</li> </ul> | 2005 | 2015 | 23       |
|  | <i>Branta bernicla</i>            | Brent Goose          | <ul style="list-style-type: none"> <li>Birds of Conservation Concern Red List</li> <li>Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006</li> <li>Hampshire BAP</li> </ul>                                                           | 1993 | 2016 | 649      |
|  | <i>Branta leucopsis</i>           | Barnacle Goose       | <ul style="list-style-type: none"> <li>Annex I of the Birds Directive</li> </ul>                                                                                                                                                                                                      | 2002 | 2016 | 17       |
|  | <i>Calidris alba</i>              | Sanderling           | <ul style="list-style-type: none"> <li>Hampshire BAP</li> </ul>                                                                                                                                                                                                                       | 1993 | 2016 | 124      |
|  | <i>Calidris alpina</i>            | Dunlin               | <ul style="list-style-type: none"> <li>Hampshire BAP</li> </ul>                                                                                                                                                                                                                       | 1993 | 2016 | 651      |
|  | <i>Calidris canutus</i>           | Knot                 | <ul style="list-style-type: none"> <li>Hampshire BAP</li> </ul>                                                                                                                                                                                                                       | 1993 | 2016 | 384      |
|  | <i>Calidris maritima</i>          | Purple Sandpiper     | <ul style="list-style-type: none"> <li>Schedule 1 Part 1 of Wildlife &amp; Countryside Act 1981</li> </ul>                                                                                                                                                                            | 2008 | 2016 | 2        |
|  | <i>Calidris pugnax</i>            | Ruff                 | <ul style="list-style-type: none"> <li>Annex I of the Birds Directive</li> <li>Birds of Conservation Concern Red List</li> <li>Schedule 1 Part 1 of Wildlife &amp; Countryside Act 1981</li> </ul>                                                                                    | 1993 | 2016 | 28       |
|  | <i>Caprimulgus europaeus</i>      | Nightjar             | <ul style="list-style-type: none"> <li>Annex I of the Birds Directive</li> <li>Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006</li> <li>Hampshire BAP</li> <li>County Interest</li> </ul>                                          | 2007 | 2016 | 5        |
|  | <i>Cettia cetti</i>               | Cetti's Warbler      | <ul style="list-style-type: none"> <li>Schedule 1 Part 1 of Wildlife &amp; Countryside Act 1981</li> <li>Hampshire BAP</li> <li>County Scarce</li> </ul>                                                                                                                              | 1993 | 2016 | 119<br>8 |
|  | <i>Charadrius dubius</i>          | Little Ringed Plover | <ul style="list-style-type: none"> <li>Schedule 1 Part 1 of Wildlife &amp; Countryside Act 1981</li> <li>County Scarce</li> </ul>                                                                                                                                                     | 1994 | 2016 | 129      |
|  | <i>Charadrius hiaticula</i>       | Ringed Plover        | <ul style="list-style-type: none"> <li>Birds of Conservation Concern Red List</li> </ul>                                                                                                                                                                                              | 1993 | 2016 | 508      |
|  | <i>Chlidonias niger</i>           | Black Tern           | <ul style="list-style-type: none"> <li>Annex I of the Birds Directive</li> <li>Schedule 1 Part 1 of Wildlife &amp; Countryside Act 1981</li> </ul>                                                                                                                                    | 1995 | 2016 | 34       |
|  | <i>Chroicocephalus ridibundus</i> | Black-headed Gull    | <ul style="list-style-type: none"> <li>County Rare</li> </ul>                                                                                                                                                                                                                         | 2001 | 2016 | 202      |

|  |                                      |                           |                                                                                                                                                                                                                                                                                                                                         |      |      |     |
|--|--------------------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-----|
|  | <i>Circus aeruginosus</i>            | Marsh Harrier             | <ul style="list-style-type: none"> <li>• Annex I of the Birds Directive</li> <li>Schedule 1 Part 1 of Wildlife &amp; Countryside Act 1981</li> <li>County Rare</li> </ul>                                                                                                                                                               | 2000 | 2016 | 85  |
|  | <i>Circus cyaneus</i>                | Hen Harrier               | <ul style="list-style-type: none"> <li>• Annex I of the Birds Directive</li> <li>Birds of Conservation Concern Red List</li> <li>Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006</li> <li>Schedule 1 Part 1 of Wildlife &amp; Countryside Act 1981</li> <li>Hampshire BAP</li> </ul> | 2003 | 2013 | 3   |
|  | <i>Circus pygargus</i>               | Montagu's Harrier         | <ul style="list-style-type: none"> <li>• Annex I of the Birds Directive</li> <li>Schedule 1 Part 1 of Wildlife &amp; Countryside Act 1981</li> <li>Hampshire BAP</li> <li>County Rare</li> </ul>                                                                                                                                        | 2002 | 2002 | 2   |
|  | <i>Clangula hyemalis</i>             | Long-tailed Duck          | <ul style="list-style-type: none"> <li>• Birds of Conservation Concern Red List</li> <li>Schedule 1 Part 1 of Wildlife &amp; Countryside Act 1981</li> </ul>                                                                                                                                                                            | 2009 | 2014 | 16  |
|  | <i>Coccothraustes coccothraustes</i> | Hawfinch                  | <ul style="list-style-type: none"> <li>• Birds of Conservation Concern Red List</li> <li>Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006</li> <li>Hampshire BAP</li> <li>County Interest</li> </ul>                                                                                  | 2005 | 2013 | 8   |
|  | <i>Crex crex</i>                     | Corncrake                 | <ul style="list-style-type: none"> <li>• Annex I of the Birds Directive</li> <li>Birds of Conservation Concern Red List</li> <li>Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006</li> <li>Schedule 1 Part 1 of Wildlife &amp; Countryside Act 1981</li> </ul>                        | 2013 | 2013 | 1   |
|  | <i>Cuculus canorus</i>               | Cuckoo                    | <ul style="list-style-type: none"> <li>• Birds of Conservation Concern Red List</li> <li>Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006</li> </ul>                                                                                                                                  | 1993 | 2016 | 161 |
|  | <i>Dendrocopos minor</i>             | Lesser Spotted Woodpecker | <ul style="list-style-type: none"> <li>• Birds of Conservation Concern Red List</li> <li>Hampshire BAP</li> </ul>                                                                                                                                                                                                                       | 1993 | 2013 | 52  |
|  | <i>Egretta garzetta</i>              | Little Egret              | <ul style="list-style-type: none"> <li>• Annex I of the Birds Directive</li> <li>Hampshire BAP</li> <li>County Rare</li> </ul>                                                                                                                                                                                                          | 1993 | 2016 | 818 |

|                                 |                      |                                                                                                                                                                                                                             |      |      |     |
|---------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-----|
| <i>Emberiza citrinella</i>      | Yellowhammer         | <ul style="list-style-type: none"> <li>• Birds of Conservation Concern Red List</li> <li>Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006</li> </ul>                      | 1997 | 2007 | 3   |
| <i>Emberiza schoeniclus</i>     | Reed Bunting         | <ul style="list-style-type: none"> <li>• Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006</li> <li>Hampshire BAP</li> </ul>                                               | 2001 | 2016 | 578 |
| <i>Falco columbarius</i>        | Merlin               | <ul style="list-style-type: none"> <li>• Annex I of the Birds Directive</li> <li>Birds of Conservation Concern Red List</li> <li>Schedule 1 Part 1 of Wildlife &amp; Countryside Act 1981</li> <li>Hampshire BAP</li> </ul> | 1996 | 2016 | 37  |
| <i>Falco peregrinus</i>         | Peregrine            | <ul style="list-style-type: none"> <li>• Annex I of the Birds Directive</li> <li>Schedule 1 Part 1 of Wildlife &amp; Countryside Act 1981</li> <li>County Rare</li> </ul>                                                   | 1993 | 2016 | 441 |
| <i>Falco subbuteo</i>           | Hobby                | <ul style="list-style-type: none"> <li>• Schedule 1 Part 1 of Wildlife &amp; Countryside Act 1981</li> <li>Hampshire BAP</li> <li>County Interest</li> </ul>                                                                | 1993 | 2016 | 136 |
| <i>Ficedula hypoleuca</i>       | Pied Flycatcher      | <ul style="list-style-type: none"> <li>• Birds of Conservation Concern Red List</li> <li>County Rare</li> </ul>                                                                                                             | 2002 | 2014 | 5   |
| <i>Fringilla montifringilla</i> | Brambling            | <ul style="list-style-type: none"> <li>• Schedule 1 Part 1 of Wildlife &amp; Countryside Act 1981</li> </ul>                                                                                                                | 1994 | 2015 | 30  |
| <i>Gallinago gallinago</i>      | Snipe                | <ul style="list-style-type: none"> <li>• Hampshire BAP</li> <li>County Scarce</li> </ul>                                                                                                                                    | 1994 | 2016 | 466 |
| <i>Gavia</i>                    | Indet. Diver         | <ul style="list-style-type: none"> <li>• Schedule 1 Part 1 of Wildlife &amp; Countryside Act 1981</li> </ul>                                                                                                                | 1995 | 2006 | 2   |
| <i>Gavia arctica</i>            | Black-throated Diver | <ul style="list-style-type: none"> <li>• Annex I of the Birds Directive</li> <li>Schedule 1 Part 1 of Wildlife &amp; Countryside Act 1981</li> </ul>                                                                        | 2007 | 2015 | 10  |
| <i>Gavia immer</i>              | Great Northern Diver | <ul style="list-style-type: none"> <li>• Annex I of the Birds Directive</li> <li>Schedule 1 Part 1 of Wildlife &amp; Countryside Act 1981</li> </ul>                                                                        | 1993 | 2016 | 266 |
| <i>Gavia stellata</i>           | Red-throated Diver   | <ul style="list-style-type: none"> <li>• Annex I of the Birds Directive</li> <li>Schedule 1 Part 1 of Wildlife &amp; Countryside Act 1981</li> </ul>                                                                        | 1994 | 2016 | 61  |
| <i>Haematopus ostralegus</i>    | Oystercatcher        | <ul style="list-style-type: none"> <li>• County Scarce</li> </ul>                                                                                                                                                           | 1993 | 2016 | 664 |
| <i>Hydrocoloeus minutus</i>     | Little Gull          | <ul style="list-style-type: none"> <li>• Annex I of the Birds Directive</li> <li>Schedule 1 Part 1 of Wildlife &amp; Countryside Act 1981</li> </ul>                                                                        | 1994 | 2016 | 73  |
| <i>Hydroprogne caspia</i>       | Caspian Tern         | <ul style="list-style-type: none"> <li>• Annex I of the Birds Directive</li> </ul>                                                                                                                                          | 2005 | 2005 | 1   |

|  |                             |                          |                                                                                                                                                                                                                                                                                                                |      |      |          |
|--|-----------------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|----------|
|  | <i>Ixobrychus minutus</i>   | Little Bittern           | <ul style="list-style-type: none"> <li>Annex I of the Birds Directive</li> <li>Schedule 1 Part 1 of Wildlife &amp; Countryside Act 1981</li> </ul>                                                                                                                                                             | 1997 | 2010 | 44       |
|  | <i>Jynx torquilla</i>       | Wryneck                  | <ul style="list-style-type: none"> <li>Schedule 1 Part 1 of Wildlife &amp; Countryside Act 1981</li> </ul>                                                                                                                                                                                                     | 2009 | 2016 | 45       |
|  | <i>Larus argentatus</i>     | Herring Gull             | <ul style="list-style-type: none"> <li>Birds of Conservation Concern Red List</li> <li>County Rare</li> </ul>                                                                                                                                                                                                  | 1994 | 2016 | 181      |
|  | <i>Larus fuscus</i>         | Lesser Black-backed Gull | <ul style="list-style-type: none"> <li>Birds of Conservation Concern Red List</li> <li>County Rare</li> </ul>                                                                                                                                                                                                  | 1993 | 2016 | 69       |
|  | <i>Larus marinus</i>        | Great Black-backed Gull  | <ul style="list-style-type: none"> <li>County Rare</li> </ul>                                                                                                                                                                                                                                                  | 1994 | 2016 | 137      |
|  | <i>Larus melanocephalus</i> | Mediterranean Gull       | <ul style="list-style-type: none"> <li>Annex I of the Birds Directive</li> <li>Schedule 1 Part 1 of Wildlife &amp; Countryside Act 1981</li> <li>Hampshire BAP</li> <li>County Rare</li> </ul>                                                                                                                 | 1994 | 2016 | 674      |
|  | <i>Limosa lapponica</i>     | Bar-tailed Godwit        | <ul style="list-style-type: none"> <li>Annex I of the Birds Directive</li> <li>Hampshire BAP</li> </ul>                                                                                                                                                                                                        | 1993 | 2016 | 210      |
|  | <i>Limosa limosa</i>        | Black-tailed Godwit      | <ul style="list-style-type: none"> <li>Birds of Conservation Concern Red List</li> <li>Schedule 1 Part 1 of Wildlife &amp; Countryside Act 1981</li> <li>Hampshire BAP</li> <li>County Interest</li> </ul>                                                                                                     | 1993 | 2016 | 105<br>1 |
|  | <i>Linaria cannabina</i>    | Linnet                   | <ul style="list-style-type: none"> <li>Birds of Conservation Concern Red List</li> <li>Hampshire BAP</li> </ul>                                                                                                                                                                                                | 1993 | 2016 | 107      |
|  | <i>Locustella naevia</i>    | Grasshopper Warbler      | <ul style="list-style-type: none"> <li>Birds of Conservation Concern Red List</li> <li>Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006</li> <li>Hampshire BAP</li> <li>County Rare</li> </ul>                                                               | 1996 | 2015 | 18       |
|  | <i>Loxia curvirostra</i>    | Common Crossbill         | <ul style="list-style-type: none"> <li>Schedule 1 Part 1 of Wildlife &amp; Countryside Act 1981</li> <li>County Scarce</li> </ul>                                                                                                                                                                              | 2002 | 2016 | 22       |
|  | <i>Lullula arborea</i>      | Woodlark                 | <ul style="list-style-type: none"> <li>Annex I of the Birds Directive</li> <li>Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006</li> <li>Schedule 1 Part 1 of Wildlife &amp; Countryside Act 1981</li> <li>Hampshire BAP</li> <li>County Interest</li> </ul> | 2002 | 2014 | 20       |

|  |                              |                        |                                                                                                                                                                                                                                                                                                 |      |      |     |
|--|------------------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-----|
|  | <i>Luscinia megarhynchos</i> | Nightingale            | <ul style="list-style-type: none"> <li>• Birds of Conservation Concern Red List</li> <li>Hampshire BAP</li> <li>County Scarce</li> </ul>                                                                                                                                                        | 1993 | 2016 | 222 |
|  | <i>Luscinia svecica</i>      | Bluethroat             | <ul style="list-style-type: none"> <li>• Annex I of the Birds Directive</li> <li>Schedule 1 Part 1 of Wildlife &amp; Countryside Act 1981</li> </ul>                                                                                                                                            | 2002 | 2002 | 1   |
|  | <i>Melanitta fusca</i>       | Velvet Scoter          | <ul style="list-style-type: none"> <li>• Schedule 1 Part 1 of Wildlife &amp; Countryside Act 1981</li> </ul>                                                                                                                                                                                    | 2009 | 2016 | 9   |
|  | <i>Melanitta nigra</i>       | Common Scoter          | <ul style="list-style-type: none"> <li>• Birds of Conservation Concern Red List</li> <li>Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006</li> <li>Schedule 1 Part 1 of Wildlife &amp; Countryside Act 1981</li> <li>Hampshire BAP</li> </ul> | 1994 | 2016 | 119 |
|  | <i>Mergellus albellus</i>    | Smew                   | <ul style="list-style-type: none"> <li>• Annex I of the Birds Directive</li> </ul>                                                                                                                                                                                                              | 1994 | 2015 | 17  |
|  | <i>Mergus merganser</i>      | Goosander              | <ul style="list-style-type: none"> <li>• Hampshire BAP</li> <li>County Rare</li> </ul>                                                                                                                                                                                                          | 1993 | 2016 | 102 |
|  | <i>Mergus serrator</i>       | Red-breasted Merganser | <ul style="list-style-type: none"> <li>• Hampshire BAP</li> </ul>                                                                                                                                                                                                                               | 1994 | 2016 | 207 |
|  | <i>Milvus migrans</i>        | Black Kite             | <ul style="list-style-type: none"> <li>• Annex I of the Birds Directive</li> </ul>                                                                                                                                                                                                              | 2010 | 2010 | 2   |
|  | <i>Milvus milvus</i>         | Red Kite               | <ul style="list-style-type: none"> <li>• Annex I of the Birds Directive</li> <li>Schedule 1 Part 1 of Wildlife &amp; Countryside Act 1981</li> <li>Hampshire BAP</li> <li>County Rare</li> </ul>                                                                                                | 1998 | 2016 | 54  |
|  | <i>Motacilla cinerea</i>     | Grey Wagtail           | <ul style="list-style-type: none"> <li>• Birds of Conservation Concern Red List</li> </ul>                                                                                                                                                                                                      | 1994 | 2016 | 218 |
|  | <i>Motacilla flava</i>       | Yellow Wagtail         | <ul style="list-style-type: none"> <li>• Birds of Conservation Concern Red List</li> <li>Hampshire BAP</li> <li>County Rare</li> </ul>                                                                                                                                                          | 1993 | 2016 | 670 |
|  | <i>Muscicapa striata</i>     | Spotted Flycatcher     | <ul style="list-style-type: none"> <li>• Birds of Conservation Concern Red List</li> <li>Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006</li> <li>Hampshire BAP</li> </ul>                                                                   | 1993 | 2016 | 189 |
|  | <i>Numenius arquata</i>      | Curlew                 | <ul style="list-style-type: none"> <li>• Birds of Conservation Concern Red List</li> <li>Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006</li> </ul>                                                                                          | 1993 | 2016 | 601 |

|                                  |                |                                                                                                                                                                                   |      |      |          |
|----------------------------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|----------|
| <i>Numenius phaeopus</i>         | Whimbrel       | • Birds of Conservation Concern Red List<br>Schedule 1 Part 1 of Wildlife & Countryside Act 1981                                                                                  | 1993 | 2016 | 448      |
| <i>Oceanodroma leucorhoa</i>     | Leach's Petrel | • Annex I of the Birds Directive<br>Schedule 1 Part 1 of Wildlife & Countryside Act 1981                                                                                          | 2009 | 2012 | 3        |
| <i>Oenanthe oenanthe</i>         | Wheatear       | • County Scarce                                                                                                                                                                   | 1993 | 2016 | 139<br>4 |
| <i>Pandion haliaetus</i>         | Osprey         | • Annex I of the Birds Directive<br>Schedule 1 Part 1 of Wildlife & Countryside Act 1981                                                                                          | 1997 | 2016 | 61       |
| <i>Panurus biarmicus</i>         | Bearded Tit    | • Schedule 1 Part 1 of Wildlife & Countryside Act 1981<br>Hampshire BAP<br>County Rare                                                                                            | 1993 | 2016 | 190      |
| <i>Passer domesticus</i>         | House Sparrow  | • Birds of Conservation Concern Red List<br>Priority Species listed under Section 41 of the Natural Environment<br>and Rural Communities Act 2006                                 | 2008 | 2016 | 21       |
| <i>Passer montanus</i>           | Tree Sparrow   | • Birds of Conservation Concern Red List<br>Priority Species listed under Section 41 of the Natural Environment<br>and Rural Communities Act 2006<br>Hampshire BAP<br>County Rare | 2005 | 2011 | 2        |
| <i>Pernis apivorus</i>           | Honey-buzzard  | • Annex I of the Birds Directive<br>Schedule 1 Part 1 of Wildlife & Countryside Act 1981<br>Hampshire BAP<br>County Rare                                                          | 2010 | 2010 | 2        |
| <i>Phalacrocorax aristotelis</i> | Shag           | • Birds of Conservation Concern Red List                                                                                                                                          | 2009 | 2016 | 13       |
| <i>Phoenicurus ochruros</i>      | Black Redstart | • Birds of Conservation Concern Red List<br>Schedule 1 Part 1 of Wildlife & Countryside Act 1981<br>County Rare                                                                   | 1994 | 2016 | 160      |
| <i>Phoenicurus phoenicurus</i>   | Redstart       | • County Interest                                                                                                                                                                 | 1993 | 2016 | 208      |
| <i>Platalea leucorodia</i>       | Spoonbill      | • Annex I of the Birds Directive<br>Schedule 1 Part 1 of Wildlife & Countryside Act 1981                                                                                          | 1996 | 2015 | 32       |
| <i>Plectrophenax nivalis</i>     | Snow Bunting   | • Schedule 1 Part 1 of Wildlife & Countryside Act 1981                                                                                                                            | 1996 | 2014 | 20       |
| <i>Plegadis falcinellus</i>      | Glossy Ibis    | • Annex I of the Birds Directive                                                                                                                                                  | 2012 | 2012 | 1        |



|                                 |                     |                                                                                                           |      |      |     |
|---------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------|------|------|-----|
| <i>Pluvialis apricaria</i>      | Golden Plover       | • Annex I of the Birds Directive<br>Hampshire BAP                                                         | 1993 | 2016 | 476 |
| <i>Pluvialis squatarola</i>     | Grey Plover         | • Hampshire BAP<br>County Interest                                                                        | 1993 | 2016 | 459 |
| <i>Podiceps auritus</i>         | Slavonian Grebe     | • Annex I of the Birds Directive<br>Schedule 1 Part 1 of Wildlife & Countryside Act 1981<br>Hampshire BAP | 1994 | 2016 | 37  |
| <i>Podiceps cristatus</i>       | Great Crested Grebe | • County Interest                                                                                         | 1993 | 2016 | 288 |
| <i>Podiceps grisegena</i>       | Red-necked Grebe    | • Birds of Conservation Concern Red List                                                                  | 2012 | 2016 | 3   |
| <i>Podiceps nigricollis</i>     | Black-necked Grebe  | • Schedule 1 Part 1 of Wildlife & Countryside Act 1981<br>Hampshire BAP                                   | 2001 | 2016 | 42  |
| <i>Poecile montana</i>          | Willow Tit          | • Birds of Conservation Concern Red List                                                                  | 2004 | 2004 | 1   |
| <i>Poecile palustris</i>        | Marsh Tit           | • Birds of Conservation Concern Red List                                                                  | 1998 | 2016 | 27  |
| <i>Porzana porzana</i>          | Spotted Crake       | • Annex I of the Birds Directive<br>Schedule 1 Part 1 of Wildlife & Countryside Act 1981                  | 2003 | 2005 | 3   |
| <i>Pyrrhula pyrrhula</i>        | Bullfinch           | • Hampshire BAP                                                                                           | 2009 | 2016 | 84  |
| <i>Rallus aquaticus</i>         | Water Rail          | • County Scarce                                                                                           | 1993 | 2016 | 681 |
| <i>Recurvirostra avosetta</i>   | Avocet              | • Annex I of the Birds Directive<br>Schedule 1 Part 1 of Wildlife & Countryside Act 1981<br>County Rare   | 1993 | 2016 | 315 |
| <i>Regulus ignicapilla</i>      | Firecrest           | • Schedule 1 Part 1 of Wildlife & Countryside Act 1981<br>Hampshire BAP<br>County Scarce                  | 1994 | 2016 | 466 |
| <i>Riparia riparia</i>          | Sand Martin         | • County Scarce                                                                                           | 1994 | 2016 | 45  |
| <i>Rissa tridactyla</i>         | Kittiwake           | • Birds of Conservation Concern Red List                                                                  | 1998 | 2015 | 42  |
| <i>Saxicola rubetra</i>         | Whinchat            | • Birds of Conservation Concern Red List<br>Hampshire BAP<br>County Rare                                  | 1993 | 2016 | 670 |
| <i>Scolopax rusticola</i>       | Woodcock            | • Birds of Conservation Concern Red List                                                                  | 1995 | 2016 | 15  |
| <i>Spinus spinus</i>            | Siskin              | • County Interest                                                                                         | 1993 | 2016 | 113 |
| <i>Stercorarius parasiticus</i> | Arctic Skua         | • Birds of Conservation Concern Red List                                                                  | 2002 | 2015 | 12  |

|  |                            |                  |                                                                                                                                                                                                                                                                                                                                                              |      |      |          |
|--|----------------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|----------|
|  | <i>Sterna dougallii</i>    | Roseate Tern     | <ul style="list-style-type: none"> <li>• Annex I of the Birds Directive</li> <li>Birds of Conservation Concern Red List</li> <li>Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006</li> <li>Schedule 1 Part 1 of Wildlife &amp; Countryside Act 1981</li> <li>Hampshire BAP</li> <li>County Rare</li> </ul> | 2002 | 2007 | 2        |
|  | <i>Sterna hirundo</i>      | Common Tern      | <ul style="list-style-type: none"> <li>• Annex I of the Birds Directive</li> <li>County Rare</li> </ul>                                                                                                                                                                                                                                                      | 1994 | 2016 | 124      |
|  | <i>Sterna paradisaea</i>   | Arctic Tern      | <ul style="list-style-type: none"> <li>• Annex I of the Birds Directive</li> </ul>                                                                                                                                                                                                                                                                           | 2004 | 2016 | 35       |
|  | <i>Sterna sandvicensis</i> | Sandwich Tern    | <ul style="list-style-type: none"> <li>• Annex I of the Birds Directive</li> <li>County Rare</li> </ul>                                                                                                                                                                                                                                                      | 1994 | 2016 | 227      |
|  | <i>Sternula albifrons</i>  | Little Tern      | <ul style="list-style-type: none"> <li>• Annex I of the Birds Directive</li> <li>Schedule 1 Part 1 of Wildlife &amp; Countryside Act 1981</li> <li>Hampshire BAP</li> <li>County Rare</li> </ul>                                                                                                                                                             | 2001 | 2016 | 22       |
|  | <i>Streptopelia turtur</i> | Turtle Dove      | <ul style="list-style-type: none"> <li>• Birds of Conservation Concern Red List</li> <li>Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006</li> <li>Hampshire BAP</li> </ul>                                                                                                                                | 1995 | 2015 | 17       |
|  | <i>Sturnus vulgaris</i>    | Starling         | <ul style="list-style-type: none"> <li>• Birds of Conservation Concern Red List</li> </ul>                                                                                                                                                                                                                                                                   | 2002 | 2016 | 50       |
|  | <i>Sylvia undata</i>       | Dartford Warbler | <ul style="list-style-type: none"> <li>• Annex I of the Birds Directive</li> <li>Schedule 1 Part 1 of Wildlife &amp; Countryside Act 1981</li> <li>Hampshire BAP</li> <li>County Interest</li> </ul>                                                                                                                                                         | 1993 | 2016 | 127<br>0 |
|  | <i>Tadorna ferruginea</i>  | Ruddy Shelduck   | <ul style="list-style-type: none"> <li>• Annex I of the Birds Directive</li> </ul>                                                                                                                                                                                                                                                                           | 2010 | 2016 | 5        |
|  | <i>Tadorna tadorna</i>     | Shelduck         | <ul style="list-style-type: none"> <li>• County Interest</li> </ul>                                                                                                                                                                                                                                                                                          | 1993 | 2016 | 510      |
|  | <i>Tringa glareola</i>     | Wood Sandpiper   | <ul style="list-style-type: none"> <li>• Annex I of the Birds Directive</li> <li>Schedule 1 Part 1 of Wildlife &amp; Countryside Act 1981</li> </ul>                                                                                                                                                                                                         | 2004 | 2015 | 24       |
|  | <i>Tringa nebularia</i>    | Greenshank       | <ul style="list-style-type: none"> <li>• Schedule 1 Part 1 of Wildlife &amp; Countryside Act 1981</li> </ul>                                                                                                                                                                                                                                                 | 1993 | 2016 | 116<br>0 |
|  | <i>Tringa ochropus</i>     | Green Sandpiper  | <ul style="list-style-type: none"> <li>• Schedule 1 Part 1 of Wildlife &amp; Countryside Act 1981</li> </ul>                                                                                                                                                                                                                                                 | 1993 | 2016 | 295      |
|  | <i>Tringa totanus</i>      | Redshank         | <ul style="list-style-type: none"> <li>• Hampshire BAP</li> </ul>                                                                                                                                                                                                                                                                                            | 1993 | 2016 | 596      |

|                                  |                                                       |                   |                                                                                                                                                                                                    |      |      |     |
|----------------------------------|-------------------------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-----|
|                                  | <i>Turdus iliacus</i>                                 | Redwing           | • Birds of Conservation Concern Red List<br>Schedule 1 Part 1 of Wildlife & Countryside Act 1981                                                                                                   | 1994 | 2016 | 80  |
|                                  | <i>Turdus philomelos</i>                              | Song Thrush       | • Birds of Conservation Concern Red List<br>Hampshire BAP                                                                                                                                          | 2003 | 2015 | 39  |
|                                  | <i>Turdus pilaris</i>                                 | Fieldfare         | • Birds of Conservation Concern Red List<br>Schedule 1 Part 1 of Wildlife & Countryside Act 1981                                                                                                   | 1993 | 2016 | 57  |
|                                  | <i>Turdus torquatus</i>                               | Ring Ouzel        | • Birds of Conservation Concern Red List<br>Priority Species listed under Section 41 of the Natural Environment<br>and Rural Communities Act 2006                                                  | 2007 | 2016 | 16  |
|                                  | <i>Turdus viscivorus</i>                              | Mistle Thrush     | • Birds of Conservation Concern Red List                                                                                                                                                           | 1995 | 2016 | 31  |
|                                  | <i>Tyto alba</i>                                      | Barn Owl          | • Schedule 1 Part 1 of Wildlife & Countryside Act 1981                                                                                                                                             | 1993 | 2015 | 65  |
|                                  | <i>Upupa epops</i>                                    | Hoopoe            | • Schedule 1 Part 1 of Wildlife & Countryside Act 1981                                                                                                                                             | 2006 | 2007 | 4   |
|                                  | <i>Vanellus vanellus</i>                              | Lapwing           | • Birds of Conservation Concern Red List<br>Priority Species listed under Section 41 of the Natural Environment<br>and Rural Communities Act 2006<br>Hampshire BAP                                 | 1993 | 2016 | 609 |
| Higher plants - Ferns            | <i>Dryopteris filix-mas x affinis = D. x complexa</i> | Buckler-Fern      | • County Rare<br>South Hampshire Rare                                                                                                                                                              | 2011 | 2011 | 1   |
|                                  | <i>Pilularia globulifera</i>                          | Pillwort          | • IUCN_EN_2014:VU, IUCN_GB_2001:NT, IUCN_GB_2001:VU<br>Nationally Scarce<br>Priority Species listed under Section 41 of the Natural Environment<br>and Rural Communities Act 2006<br>Hampshire BAP | 2006 | 2006 | 1   |
|                                  | <i>Polypodium cambricum</i>                           | Southern Polypody | • County Scarce<br>South Hampshire Scarce                                                                                                                                                          | 1993 | 2003 | 2   |
| Higher plants - Flowering Plants | <i>Acorus calamus</i>                                 | Sweet-flag        | • County Scarce<br>South Hampshire Scarce<br>North Hampshire Rare                                                                                                                                  | 2008 | 2008 | 1   |

|                                                            |                     |                                                                                                                                                                                                                                                                                                         |      |      |    |
|------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|----|
| <i>Althaea officinalis</i>                                 | Marsh-mallow        | <ul style="list-style-type: none"> <li>IUCN_EN_2014:NT, IUCN_GB_2001:NT</li> <li>Nationally Scarce</li> <li>North Hampshire Rare</li> <li>South Hampshire Scarce</li> <li>Hampshire BAP</li> <li>County Scarce</li> </ul>                                                                               | 2010 | 2010 | 1  |
| <i>Anacamptis morio</i>                                    | Green-winged Orchid | <ul style="list-style-type: none"> <li>IUCN_EN_2014:VU, IUCN_GB_2001:NT</li> <li>Hampshire BAP</li> </ul>                                                                                                                                                                                               | 1989 | 2006 | 5  |
| <i>Anthemis cotula</i>                                     | Stinking Chamomile  | <ul style="list-style-type: none"> <li>IUCN_EN_2014:VU, IUCN_GB_2001:VU</li> <li>County Interest</li> </ul>                                                                                                                                                                                             | 1994 | 1994 | 2  |
| <i>Anthriscus caucalis</i>                                 | Bur Chervil         | <ul style="list-style-type: none"> <li>County Scarce</li> <li>South Hampshire Scarce</li> <li>North Hampshire Rare</li> </ul>                                                                                                                                                                           | 2004 | 2004 | 1  |
| <i>Apium graveolens</i>                                    | Wild Celery         | <ul style="list-style-type: none"> <li>County Scarce</li> </ul>                                                                                                                                                                                                                                         | 1993 | 2013 | 4  |
| <i>Artemisia absinthium</i>                                | Wormwood            | <ul style="list-style-type: none"> <li>County Scarce</li> <li>South Hampshire Scarce</li> <li>North Hampshire Rare</li> </ul>                                                                                                                                                                           | 1997 | 1997 | 1  |
| <i>Atriplex prostrata x longipes = A. x gustafssoniana</i> | Kattegat Orache     | <ul style="list-style-type: none"> <li>County Rare</li> <li>South Hampshire Rare</li> </ul>                                                                                                                                                                                                             | 2009 | 2009 | 2  |
| <i>Briza media</i>                                         | Quaking-grass       | <ul style="list-style-type: none"> <li>IUCN_EN_2014:NT, IUCN_GB_2001:NT</li> </ul>                                                                                                                                                                                                                      | 2002 | 2011 | 4  |
| <i>Bupleurum tenuissimum</i>                               | Slender Hare's-ear  | <ul style="list-style-type: none"> <li>IUCN_EN_2014:VU, IUCN_GB_2001:VU</li> <li>Nationally Scarce</li> <li>Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006</li> <li>Hampshire BAP</li> <li>County Scarce</li> <li>South Hampshire Scarce</li> </ul> | 1982 | 2015 | 13 |
| <i>Buxus sempervirens</i>                                  | Box                 | <ul style="list-style-type: none"> <li>IUCN_EN_2014:DD, IUCN_GB_2001:DD</li> <li>Nationally Rare</li> </ul>                                                                                                                                                                                             | 2011 | 2011 | 1  |
| <i>Cakile maritima</i>                                     | Sea Rocket          | <ul style="list-style-type: none"> <li>County Scarce</li> </ul>                                                                                                                                                                                                                                         | 1997 | 2004 | 8  |
| <i>Calluna vulgaris</i>                                    | Heather             | <ul style="list-style-type: none"> <li>IUCN_EN_2014:NT, IUCN_GB_2001:NT</li> </ul>                                                                                                                                                                                                                      | 1987 | 2014 | 26 |
| <i>Carduus tenuiflorus</i>                                 | Slender Thistle     | <ul style="list-style-type: none"> <li>County Scarce</li> </ul>                                                                                                                                                                                                                                         | 1997 | 2011 | 5  |

|  |                                 |                      |                                                                                                                                                                                                                                 |      |      |    |
|--|---------------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|----|
|  | <i>Carex acuta</i>              | Slender Tufted-sedge | <ul style="list-style-type: none"> <li>IUCN_EN_2014:EX</li> <li>County Scarce</li> <li>South Hampshire Scarce</li> <li>North Hampshire Scarce</li> </ul>                                                                        | 2001 | 2001 | 1  |
|  | <i>Carex divisa</i>             | Divided Sedge        | <ul style="list-style-type: none"> <li>IUCN_GB_2001:VU</li> <li>Nationally Scarce</li> <li>Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006</li> <li>Hampshire BAP</li> </ul> | 1999 | 2014 | 12 |
|  | <i>Carex echinata</i>           | Star Sedge           | <ul style="list-style-type: none"> <li>IUCN_EN_2014:NT, IUCN_GB_2001:NT</li> </ul>                                                                                                                                              | 2004 | 2004 | 1  |
|  | <i>Carex extensa</i>            | Long-bracted Sedge   | <ul style="list-style-type: none"> <li>County Scarce</li> <li>South Hampshire Scarce</li> </ul>                                                                                                                                 | 2002 | 2013 | 4  |
|  | <i>Catabrosa aquatica</i>       | Whorl-grass          | <ul style="list-style-type: none"> <li>IUCN_EN_2014:VU, IUCN_GB_2001:VU</li> <li>County Scarce</li> </ul>                                                                                                                       | 1999 | 2004 | 2  |
|  | <i>Centaurea cyanus</i>         | Cornflower           | <ul style="list-style-type: none"> <li>Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006</li> <li>Hampshire BAP</li> </ul>                                                     | 2000 | 2000 | 1  |
|  | <i>Cerastium arvense</i>        | Field Mouse-ear      | <ul style="list-style-type: none"> <li>IUCN_EN_2014:NT, IUCN_GB_2001:NT</li> </ul>                                                                                                                                              | 2003 | 2003 | 1  |
|  | <i>Ceratocarpus claviculata</i> | Climbing Corydalis   | <ul style="list-style-type: none"> <li>North Hampshire Rare</li> <li>North Hampshire Scarce</li> </ul>                                                                                                                          | 1987 | 2015 | 21 |
|  | <i>Cichorium intybus</i>        | Chicory              | <ul style="list-style-type: none"> <li>IUCN_EN_2014:VU, IUCN_GB_2001:VU</li> </ul>                                                                                                                                              | 1994 | 1994 | 1  |
|  | <i>Cochlearia anglica</i>       | English Scurvygrass  | <ul style="list-style-type: none"> <li>County Scarce</li> </ul>                                                                                                                                                                 | 1988 | 1998 | 7  |
|  | <i>Crataegus laevigata</i>      | Midland Hawthorn     | <ul style="list-style-type: none"> <li>County Scarce</li> <li>South Hampshire Scarce</li> <li>North Hampshire Rare</li> <li>North Hampshire Scarce</li> </ul>                                                                   | 2011 | 2011 | 2  |
|  | <i>Cruciata laevipes</i>        | Crosswort            | <ul style="list-style-type: none"> <li>IUCN_EN_2014:NT, IUCN_GB_2001:NT</li> </ul>                                                                                                                                              | 1997 | 2016 | 5  |
|  | <i>Cuscuta epithimum</i>        | Dodder               | <ul style="list-style-type: none"> <li>IUCN_EN_2014:VU, IUCN_GB_2001:VU</li> </ul>                                                                                                                                              | 2011 | 2011 | 1  |

|  |                                       |                       |                                                                                                                                                                                                                                                                                                                                                                                           |      |      |    |
|--|---------------------------------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|----|
|  | <i>Dianthus armeria</i>               | Deptford Pink         | <ul style="list-style-type: none"> <li>IUCN_EN_2014:EN, IUCN_GB_2001:EN</li> <li>Nationally Scarce</li> <li>Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006</li> <li>Schedule 8 Wildlife &amp; Countryside Act 1981</li> <li>Hampshire BAP</li> <li>County Rare</li> <li>South Hampshire Rare</li> <li>North Hampshire Rare</li> </ul> | 2011 | 2011 | 1  |
|  | <i>Eleocharis uniglumis</i>           | Slender Spike-rush    | <ul style="list-style-type: none"> <li>County Scarce</li> <li>South Hampshire Scarce</li> <li>North Hampshire Rare</li> </ul>                                                                                                                                                                                                                                                             | 2009 | 2009 | 1  |
|  | <i>Elytrigia juncea</i>               | Sand Couch            | <ul style="list-style-type: none"> <li>County Scarce</li> <li>South Hampshire Scarce</li> </ul>                                                                                                                                                                                                                                                                                           | 1988 | 2004 | 2  |
|  | <i>Erica cinerea</i>                  | Bell Heather          | <ul style="list-style-type: none"> <li>IUCN_EN_2014:NT, IUCN_GB_2001:NT</li> </ul>                                                                                                                                                                                                                                                                                                        | 2002 | 2014 | 5  |
|  | <i>Erica tetralix</i>                 | Cross-leaved Heath    | <ul style="list-style-type: none"> <li>IUCN_EN_2014:NT, IUCN_GB_2001:NT</li> </ul>                                                                                                                                                                                                                                                                                                        | 1985 | 2013 | 11 |
|  | <i>Erysimum cheiranthoides</i>        | Treacle-mustard       | <ul style="list-style-type: none"> <li>IUCN_EN_2014:NT, IUCN_GB_2001:NT</li> <li>County Scarce</li> </ul>                                                                                                                                                                                                                                                                                 | 1992 | 1992 | 1  |
|  | <i>Euphrasia nemorosa</i>             | Eyebright             | <ul style="list-style-type: none"> <li>IUCN_EN_2014:NT, IUCN_GB_2001:NT</li> </ul>                                                                                                                                                                                                                                                                                                        | 2014 | 2014 | 1  |
|  | <i>Festuca ovina subsp. hirtula</i>   | Sheep's Fescue        | <ul style="list-style-type: none"> <li>County Rare</li> <li>South Hampshire Rare</li> <li>North Hampshire Rare</li> </ul>                                                                                                                                                                                                                                                                 | 1992 | 1992 | 1  |
|  | <i>Festuca rubra subsp. juncea</i>    | Red Fescue            | <ul style="list-style-type: none"> <li>County Scarce</li> <li>South Hampshire Scarce</li> </ul>                                                                                                                                                                                                                                                                                           | 1999 | 1999 | 1  |
|  | <i>Festuca rubra subsp. litoralis</i> | Red Fescue            | <ul style="list-style-type: none"> <li>County Scarce</li> <li>South Hampshire Scarce</li> </ul>                                                                                                                                                                                                                                                                                           | 2006 | 2010 | 4  |
|  | <i>Filago minima</i>                  | Small Cudweed         | <ul style="list-style-type: none"> <li>IUCN_EN_2014:NT, IUCN_GB_2001:NT</li> </ul>                                                                                                                                                                                                                                                                                                        | 1987 | 1987 | 1  |
|  | <i>Filago vulgaris</i>                | Common Cudweed        | <ul style="list-style-type: none"> <li>IUCN_EN_2014:NT, IUCN_GB_2001:NT</li> </ul>                                                                                                                                                                                                                                                                                                        | 2000 | 2000 | 2  |
|  | <i>Fragaria vesca</i>                 | Wild Strawberry       | <ul style="list-style-type: none"> <li>IUCN_EN_2014:NT, IUCN_GB_2001:NT</li> </ul>                                                                                                                                                                                                                                                                                                        | 1990 | 2016 | 13 |
|  | <i>Fumaria muralis subsp. boraei</i>  | Few-Flowered Fumitory | <ul style="list-style-type: none"> <li>North Hampshire Rare</li> <li>North Hampshire Scarce</li> </ul>                                                                                                                                                                                                                                                                                    | 1998 | 2010 | 3  |

|                               |                           |                                                                                                                                                                        |      |      |    |
|-------------------------------|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|----|
| <i>Geranium purpureum</i>     | Little-robin              | <ul style="list-style-type: none"> <li>Nationally Rare</li> <li>Nationally Scarce</li> <li>Hampshire BAP</li> <li>County Rare</li> <li>South Hampshire Rare</li> </ul> | 1990 | 1990 | 1  |
| <i>Geranium rotundifolium</i> | Round-leaved Crane's-bill | <ul style="list-style-type: none"> <li>South Hampshire Scarce</li> <li>North Hampshire Scarce</li> </ul>                                                               | 2012 | 2012 | 1  |
| <i>Glaucium flavum</i>        | Yellow Horned-poppay      | <ul style="list-style-type: none"> <li>IUCN_EN_2014:NT, IUCN_GB_2001:NT</li> <li>County Scarce</li> </ul>                                                              | 1997 | 2014 | 10 |
| <i>Glebionis segetum</i>      | Corn Marigold             | <ul style="list-style-type: none"> <li>IUCN_EN_2014:VU, IUCN_GB_2001:VU</li> <li>County Interest</li> </ul>                                                            | 1994 | 1994 | 1  |
| <i>Hieracium calcaricola</i>  | Hawkweed                  | <ul style="list-style-type: none"> <li>County Rare</li> <li>South Hampshire Rare</li> <li>North Hampshire Rare</li> </ul>                                              | 2006 | 2006 | 1  |
| <i>Hippophae rhamnoides</i>   | Sea-buckthorn             | <ul style="list-style-type: none"> <li>Nationally Scarce</li> <li>County Interest</li> </ul>                                                                           | 2001 | 2001 | 1  |
| <i>Honckenya peploides</i>    | Sea Sandwort              | <ul style="list-style-type: none"> <li>County Scarce</li> </ul>                                                                                                        | 1997 | 2014 | 7  |
| <i>Hottonia palustris</i>     | Water-violet              | <ul style="list-style-type: none"> <li>IUCN_EN_2014:VU, IUCN_GB_2001:VU</li> <li>County Scarce</li> <li>South Hampshire Rare</li> <li>North Hampshire Rare</li> </ul>  | 2006 | 2006 | 1  |
| <i>Hydrocotyle vulgaris</i>   | Marsh Pennywort           | <ul style="list-style-type: none"> <li>IUCN_EN_2014:NT, IUCN_GB_2001:NT</li> </ul>                                                                                     | 1996 | 2011 | 12 |
| <i>Hypericum elodes</i>       | Marsh St John's-wort      | <ul style="list-style-type: none"> <li>IUCN_EN_2014:NT, IUCN_GB_2001:NT</li> </ul>                                                                                     | 1994 | 2006 | 2  |
| <i>Juncus subnodulosus</i>    | Blunt-flowered Rush       | <ul style="list-style-type: none"> <li>County Scarce</li> <li>South Hampshire Scarce</li> <li>North Hampshire Scarce</li> </ul>                                        | 1999 | 2012 | 2  |
| <i>Knautia arvensis</i>       | Field Scabious            | <ul style="list-style-type: none"> <li>IUCN_EN_2014:NT, IUCN_GB_2001:NT</li> </ul>                                                                                     | 2000 | 2009 | 4  |
| <i>Lactuca virosa</i>         | Great Lettuce             | <ul style="list-style-type: none"> <li>County Scarce</li> <li>South Hampshire Scarce</li> <li>South Hampshire Rare</li> </ul>                                          | 1997 | 2010 | 2  |
| <i>Lamium hybridum</i>        | Cut-leaved Dead-nettle    | <ul style="list-style-type: none"> <li>County Scarce</li> <li>South Hampshire Scarce</li> <li>North Hampshire Scarce</li> </ul>                                        | 1995 | 1995 | 2  |

|                                         |                           |                                                                                                                                          |      |      |    |
|-----------------------------------------|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------|------|------|----|
| <i>Lathyrus linifolius</i>              | Bitter-vetch              | • IUCN_EN_2014:NT, IUCN_GB_2001:NT                                                                                                       | 1997 | 1997 | 2  |
| <i>Lepidium campestre</i>               | Field Pepperwort          | • IUCN_EN_2014:NT, IUCN_GB_2001:NT                                                                                                       | 1997 | 2011 | 3  |
| <i>Limonium vulgare</i>                 | Common Sea-lavender       | • IUCN_EN_2014:NT, IUCN_GB_2001:NT                                                                                                       | 1996 | 2014 | 23 |
| <i>Lotus subbiflorus</i>                | Hairy Bird's-foot-trefoil | • Nationally Scarce                                                                                                                      | 2012 | 2012 | 1  |
| <i>Lychnis flos-cuculi</i>              | Ragged-Robin              | • IUCN_EN_2014:NT                                                                                                                        | 1990 | 2013 | 22 |
| <i>Medicago polymorpha</i>              | Toothed Medick            | • Nationally Scarce<br>County Scarce<br>South Hampshire Scarce<br>North Hampshire Rare                                                   | 2000 | 2012 | 2  |
| <i>Melampyrum pratense</i>              | Common Cow-wheat          | • IUCN_EN_2014:NT, IUCN_GB_2001:NT                                                                                                       | 1987 | 2010 | 8  |
| <i>Misopates orontium</i>               | Weasel's-snout            | • IUCN_EN_2014:VU, IUCN_GB_2001:VU                                                                                                       | 1997 | 2014 | 4  |
| <i>Moenchia erecta</i>                  | Upright Chickweed         | • IUCN_EN_2014:VU, IUCN_GB_2001:VU                                                                                                       | 2001 | 2008 | 3  |
| <i>Montia fontana subsp. amporitana</i> | Blinks                    | • County Rare<br>South Hampshire Rare<br>North Hampshire Rare                                                                            | 1999 | 1999 | 1  |
| <i>Myrica gale</i>                      | Bog-myrtle                | • IUCN_EN_2014:NT, IUCN_GB_2001:NT                                                                                                       | 1994 | 2006 | 2  |
| <i>Nardus stricta</i>                   | Mat-grass                 | • IUCN_EN_2014:NT, IUCN_GB_2001:NT                                                                                                       | 1996 | 1996 | 2  |
| <i>Nymphoides peltata</i>               | Fringed Water-lily        | • Nationally Scarce<br>County Interest                                                                                                   | 1996 | 2011 | 7  |
| <i>Oenanthe fistulosa</i>               | Tubular Water-dropwort    | • IUCN_EN_2014:VU, IUCN_GB_2001:VU<br>Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006 | 1998 | 1998 | 1  |
| <i>Oenanthe lachenalii</i>              | Parsley Water-dropwort    | • IUCN_EN_2014:NT, IUCN_GB_2001:NT<br>County Scarce                                                                                      | 1996 | 2012 | 17 |
| <i>Orobanche hederæ</i>                 | Ivy Broomrape             | • County Scarce<br>South Hampshire Scarce<br>North Hampshire Rare                                                                        | 1991 | 1991 | 2  |
| <i>Oxalis acetosella</i>                | Wood-sorrel               | • IUCN_EN_2014:NT, IUCN_GB_2001:NT                                                                                                       | 1990 | 2014 | 13 |
| <i>Papaver dubium subsp. dubium</i>     | Long-headed Poppy         | • County Interest                                                                                                                        | 2000 | 2000 | 1  |



|  |                                                   |                          |                                                                                                                                                                                                                                                                                                                          |      |      |    |
|--|---------------------------------------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|----|
|  | <i>Parapholis incurva</i>                         | Curved Hard-grass        | <ul style="list-style-type: none"> <li>Nationally Scarce</li> <li>Hampshire BAP</li> <li>County Scarce</li> </ul>                                                                                                                                                                                                        | 1996 | 1996 | 1  |
|  | <i>Persicaria bistorta</i>                        | Common Bistort           | <ul style="list-style-type: none"> <li>County Scarce</li> <li>South Hampshire Scarce</li> </ul>                                                                                                                                                                                                                          | 1993 | 1993 | 2  |
|  | <i>Poa bulbosa</i>                                | Bulbous Meadow-grass     | <ul style="list-style-type: none"> <li>Nationally Scarce</li> <li>Hampshire BAP</li> <li>County Scarce</li> <li>South Hampshire Scarce</li> </ul>                                                                                                                                                                        | 2015 | 2015 | 1  |
|  | <i>Polygala serpyllifolia</i>                     | Heath Milkwort           | <ul style="list-style-type: none"> <li>IUCN_EN_2014:NT, IUCN_GB_2001:NT</li> </ul>                                                                                                                                                                                                                                       | 2006 | 2011 | 3  |
|  | <i>Polygonum rurivagum</i>                        | Cornfield Knotgrass      | <ul style="list-style-type: none"> <li>County Interest</li> </ul>                                                                                                                                                                                                                                                        | 2000 | 2000 | 1  |
|  | <i>Polypogon monspeliensis</i>                    | Annual Beard-grass       | <ul style="list-style-type: none"> <li>Nationally Scarce</li> <li>Hampshire BAP</li> <li>North Hampshire Rare</li> <li>North Hampshire Scarce</li> </ul>                                                                                                                                                                 | 1991 | 2014 | 6  |
|  | <i>Potamogeton berchtoldii</i>                    | Small Pondweed           | <ul style="list-style-type: none"> <li>South Hampshire Scarce</li> <li>North Hampshire Scarce</li> </ul>                                                                                                                                                                                                                 | 2013 | 2013 | 1  |
|  | <i>Potamogeton pectinatus</i>                     | Fennel Pondweed          | <ul style="list-style-type: none"> <li>County Scarce</li> <li>North Hampshire Rare</li> <li>North Hampshire Scarce</li> </ul>                                                                                                                                                                                            | 2013 | 2013 | 2  |
|  | <i>Potentilla erecta</i>                          | Tormentil                | <ul style="list-style-type: none"> <li>IUCN_EN_2014:NT, IUCN_GB_2001:NT</li> </ul>                                                                                                                                                                                                                                       | 1994 | 2013 | 29 |
|  | <i>Potentilla erecta x reptans = P. x italica</i> | Cinquefoil               | <ul style="list-style-type: none"> <li>County Scarce</li> <li>South Hampshire Rare</li> <li>South Hampshire Scarce</li> <li>North Hampshire Rare</li> </ul>                                                                                                                                                              | 2014 | 2014 | 1  |
|  | <i>Puccinellia fasciculata</i>                    | Borrer's Saltmarsh-grass | <ul style="list-style-type: none"> <li>IUCN_EN_2014:NT, IUCN_GB_2001:NT, IUCN_GB_2001:VU</li> <li>Nationally Scarce</li> <li>Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006</li> <li>Hampshire BAP</li> <li>County Scarce</li> <li>South Hampshire Scarce</li> </ul> | 1999 | 2007 | 3  |

|                                               |                         |                                                                                                                                                   |      |      |    |
|-----------------------------------------------|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------|------|----|
| <i>Puccinellia rupestris</i>                  | Stiff Saltmarsh-grass   | <ul style="list-style-type: none"> <li>Nationally Scarce</li> <li>Hampshire BAP</li> <li>County Scarce</li> </ul>                                 | 1999 | 2007 | 4  |
| <i>Ranunculus baudotii</i>                    | Brackish Water-crowfoot | <ul style="list-style-type: none"> <li>County Scarce</li> <li>South Hampshire Scarce</li> </ul>                                                   | 2013 | 2013 | 3  |
| <i>Ranunculus flammula</i>                    | Lesser Spearwort        | <ul style="list-style-type: none"> <li>IUCN_EN_2014:VU, IUCN_GB_2001:VU</li> </ul>                                                                | 1993 | 2014 | 39 |
| <i>Ranunculus flammula subsp. flammula</i>    | Lesser Spearwort        | <ul style="list-style-type: none"> <li>IUCN_EN_2014:VU, IUCN_GB_2001:VU</li> </ul>                                                                | 2000 | 2000 | 1  |
| <i>Ranunculus hederaceus</i>                  | Ivy-leaved Crowfoot     | <ul style="list-style-type: none"> <li>North Hampshire Rare</li> <li>North Hampshire Scarce</li> </ul>                                            | 1999 | 2016 | 3  |
| <i>Raphanus raphanistrum subsp. maritimus</i> | Sea Radish              | <ul style="list-style-type: none"> <li>County Scarce</li> </ul>                                                                                   | 2013 | 2013 | 1  |
| <i>Rorippa austriaca</i>                      | Austrian Yellow-cress   | <ul style="list-style-type: none"> <li>County Interest</li> </ul>                                                                                 | 1995 | 2011 | 7  |
| <i>Rosa spinosissima</i>                      | Burnet Rose             | <ul style="list-style-type: none"> <li>County Scarce</li> </ul>                                                                                   | 2006 | 2011 | 2  |
| <i>Rumex crispus subsp. littoreus</i>         | Curled Dock             | <ul style="list-style-type: none"> <li>County Scarce</li> </ul>                                                                                   | 1997 | 2014 | 10 |
| <i>Ruppia maritima</i>                        | Beaked Tasselweed       | <ul style="list-style-type: none"> <li>IUCN_EN_2014:NT</li> <li>County Scarce</li> <li>South Hampshire Scarce</li> </ul>                          | 2004 | 2004 | 1  |
| <i>Ruscus aculeatus</i>                       | Butcher's-broom         | <ul style="list-style-type: none"> <li>Annex V Habitats Directive</li> </ul>                                                                      | 1987 | 2016 | 73 |
| <i>Sagina maritima</i>                        | Sea Pearlwort           | <ul style="list-style-type: none"> <li>County Scarce</li> </ul>                                                                                   | 1999 | 1999 | 1  |
| <i>Salicornia dolichostachya</i>              | Long-spiked Glasswort   | <ul style="list-style-type: none"> <li>County Scarce</li> </ul>                                                                                   | 2000 | 2011 | 4  |
| <i>Salicornia europaea</i>                    | Common Glasswort        | <ul style="list-style-type: none"> <li>County Scarce</li> <li>South Hampshire Scarce</li> </ul>                                                   | 2000 | 2009 | 4  |
| <i>Salicornia fragilis</i>                    | Yellow Glasswort        | <ul style="list-style-type: none"> <li>Nationally Scarce</li> <li>County Scarce</li> </ul>                                                        | 1998 | 2011 | 6  |
| <i>Salicornia pusilla</i>                     | One-flowered Glasswort  | <ul style="list-style-type: none"> <li>Nationally Scarce</li> <li>Hampshire BAP</li> <li>County Scarce</li> <li>South Hampshire Scarce</li> </ul> | 1998 | 2009 | 4  |
| <i>Salicornia ramosissima</i>                 | Purple Glasswort        | <ul style="list-style-type: none"> <li>County Scarce</li> </ul>                                                                                   | 1998 | 2014 | 14 |
| <i>Salix repens</i>                           | Creeping Willow         | <ul style="list-style-type: none"> <li>IUCN_EN_2014:NT, IUCN_GB_2001:NT</li> </ul>                                                                | 1999 | 2008 | 2  |

|                                                                  |                       |                                                                                                                                                                                                                                                                                 |      |      |    |
|------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|----|
| <i>Samolus valerandi</i>                                         | Brookweed             | <ul style="list-style-type: none"> <li>County Scarce</li> <li>South Hampshire Scarce</li> <li>North Hampshire Rare</li> </ul>                                                                                                                                                   | 2001 | 2001 | 1  |
| <i>Sanicula europaea</i>                                         | Sanicle               | <ul style="list-style-type: none"> <li>IUCN_EN_2014:NT, IUCN_GB_2001:NT</li> </ul>                                                                                                                                                                                              | 1990 | 2015 | 11 |
| <i>Sarcocornia perennis</i>                                      | Perennial Glasswort   | <ul style="list-style-type: none"> <li>Nationally Scarce</li> <li>County Scarce</li> </ul>                                                                                                                                                                                      | 1989 | 2014 | 9  |
| <i>Schoenoplectus triquetus</i>                                  | Triangular Club-rush  | <ul style="list-style-type: none"> <li>IUCN_EN_2014:CR, IUCN_GB_2001:CR</li> <li>Nationally Rare</li> <li>Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006</li> <li>Schedule 8 Wildlife &amp; Countryside Act 1981</li> </ul> | 2006 | 2006 | 1  |
| <i>Senecio aquaticus</i>                                         | Marsh Ragwort         | <ul style="list-style-type: none"> <li>IUCN_EN_2014:NT, IUCN_GB_2001:NT</li> </ul>                                                                                                                                                                                              | 1997 | 2013 | 6  |
| <i>Seriphidium maritimum</i>                                     | Sea Wormwood          | <ul style="list-style-type: none"> <li>IUCN_EN_2014:NT</li> <li>County Scarce</li> <li>South Hampshire Scarce</li> </ul>                                                                                                                                                        | 1988 | 2010 | 9  |
| <i>Solidago virgaurea</i>                                        | Goldenrod             | <ul style="list-style-type: none"> <li>IUCN_EN_2014:NT, IUCN_GB_2001:NT</li> </ul>                                                                                                                                                                                              | 1994 | 2011 | 7  |
| <i>Spartina maritima x alterniflora</i> = <i>S. x townsendii</i> | Townsend's Cord-grass | <ul style="list-style-type: none"> <li>County Scarce</li> <li>South Hampshire Scarce</li> </ul>                                                                                                                                                                                 | 1990 | 2009 | 2  |
| <i>Spergula arvensis</i>                                         | Corn Spurrey          | <ul style="list-style-type: none"> <li>IUCN_EN_2014:VU, IUCN_GB_2001:VU</li> </ul>                                                                                                                                                                                              | 1994 | 2000 | 2  |
| <i>Spiranthes spiralis</i>                                       | Autumn Lady's-tresses | <ul style="list-style-type: none"> <li>IUCN_EN_2014:NT, IUCN_GB_2001:NT</li> </ul>                                                                                                                                                                                              | 2000 | 2015 | 12 |
| <i>Stachys arvensis</i>                                          | Field Woundwort       | <ul style="list-style-type: none"> <li>IUCN_EN_2014:NT, IUCN_GB_2001:NT</li> </ul>                                                                                                                                                                                              | 2012 | 2012 | 1  |
| <i>Stratiotes aloides</i>                                        | Water-soldier         | <ul style="list-style-type: none"> <li>IUCN_GB_2001:NT</li> <li>Nationally Rare</li> <li>County Interest</li> </ul>                                                                                                                                                             | 1999 | 1999 | 2  |
| <i>Succisa pratensis</i>                                         | Devil's-bit Scabious  | <ul style="list-style-type: none"> <li>IUCN_EN_2014:NT, IUCN_GB_2001:NT</li> </ul>                                                                                                                                                                                              | 1996 | 2013 | 14 |
| <i>Tilia platyphyllos</i>                                        | Large-leaved Lime     | <ul style="list-style-type: none"> <li>Nationally Scarce</li> <li>County Rare</li> <li>South Hampshire Rare</li> </ul>                                                                                                                                                          | 2011 | 2013 | 2  |
| <i>Trifolium fragiferum</i>                                      | Strawberry Clover     | <ul style="list-style-type: none"> <li>IUCN_EN_2014:VU, IUCN_GB_2001:VU</li> </ul>                                                                                                                                                                                              | 1996 | 2014 | 18 |
| <i>Trifolium ornithopodioides</i>                                | Bird's-foot Clover    | <ul style="list-style-type: none"> <li>North Hampshire Rare</li> <li>North Hampshire Scarce</li> </ul>                                                                                                                                                                          | 1997 | 2012 | 12 |

|                            |                               |                        |                                                                                                                                                                           |      |      |    |
|----------------------------|-------------------------------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|----|
|                            | <i>Trifolium suffocatum</i>   | Suffocated Clover      | <ul style="list-style-type: none"> <li>Nationally Scarce</li> <li>Hampshire BAP</li> <li>County Scarce</li> </ul>                                                         | 1999 | 2000 | 3  |
|                            | <i>Ulex gallii</i>            | Western Gorse          | <ul style="list-style-type: none"> <li>County Rare</li> <li>County</li> <li>South Hampshire Rare</li> <li>South Hampshire Scarce</li> </ul>                               | 2006 | 2006 | 1  |
|                            | <i>Umbilicus rupestris</i>    | Navelwort              | <ul style="list-style-type: none"> <li>County Scarce</li> </ul>                                                                                                           | 2013 | 2013 | 2  |
|                            | <i>Valeriana dioica</i>       | Marsh Valerian         | <ul style="list-style-type: none"> <li>IUCN_EN_2014:NT, IUCN_GB_2001:NT</li> </ul>                                                                                        | 1994 | 2015 | 5  |
|                            | <i>Valeriana officinalis</i>  | Common Valerian        | <ul style="list-style-type: none"> <li>IUCN_EN_2014:NT, IUCN_GB_2001:NT</li> </ul>                                                                                        | 1990 | 2014 | 18 |
|                            | <i>Veronica officinalis</i>   | Heath Speedwell        | <ul style="list-style-type: none"> <li>IUCN_EN_2014:NT, IUCN_GB_2001:NT</li> </ul>                                                                                        | 1990 | 2011 | 19 |
|                            | <i>Viola canina</i>           | Heath Dog-violet       | <ul style="list-style-type: none"> <li>IUCN_EN_2014:VU, IUCN_GB_2001:NT, IUCN_GB_2001:VU</li> </ul>                                                                       | 2002 | 2002 | 1  |
|                            | <i>Viola tricolor</i>         | Wild Pansy             | <ul style="list-style-type: none"> <li>IUCN_EN_2014:NT, IUCN_GB_2001:NT</li> <li>County Scarce</li> <li>South Hampshire Scarce</li> <li>North Hampshire Scarce</li> </ul> | 2000 | 2000 | 1  |
| Higher plants - Horsetails | <i>Equisetum sylvaticum</i>   | Wood Horsetail         | <ul style="list-style-type: none"> <li>County Scarce</li> </ul>                                                                                                           | 1988 | 1989 | 4  |
| Invertebrates - Araneae    | <i>Sitticus caricis</i>       | Sedge Jumper           | <ul style="list-style-type: none"> <li>Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006</li> </ul>                      | 2008 | 2008 | 1  |
| Invertebrates - Blattaria  | <i>Ectobius lapponicus</i>    | Dusky Cockroach        | <ul style="list-style-type: none"> <li>Nationally Scarce</li> </ul>                                                                                                       | 2005 | 2013 | 5  |
|                            | <i>Ectobius pallidus</i>      | Tawny Cockroach        | <ul style="list-style-type: none"> <li>Nationally Scarce</li> </ul>                                                                                                       | 2002 | 2006 | 2  |
|                            | <i>Ectobius panzeri</i>       | Lesser Cockroach       | <ul style="list-style-type: none"> <li>Nationally Scarce</li> </ul>                                                                                                       | 2005 | 2013 | 3  |
| Invertebrates - Coleoptera | <i>Agelastica alni</i>        | Alder Leaf Beetle      | <ul style="list-style-type: none"> <li>IUCN_GB_2001:DD</li> <li>Nationally Rare</li> </ul>                                                                                | 2014 | 2014 | 2  |
|                            | <i>Ampedus sanguinolentus</i> | Ampedus sanguinolentus | <ul style="list-style-type: none"> <li>Nationally Scarce</li> </ul>                                                                                                       | 2013 | 2013 | 1  |
|                            | <i>Apion rubiginosum</i>      | Apion rubiginosum      | <ul style="list-style-type: none"> <li>IUCN_GB_pre94:R</li> </ul>                                                                                                         | 2005 | 2005 | 1  |
|                            | <i>Bruchus atomarius</i>      | Bruchus atomarius      | <ul style="list-style-type: none"> <li>Nationally Scarce</li> </ul>                                                                                                       | 2005 | 2005 | 1  |
|                            | <i>Calomicrus circumfusus</i> | Calomicrus circumfusus | <ul style="list-style-type: none"> <li>Nationally Scarce</li> </ul>                                                                                                       | 2003 | 2003 | 2  |
|                            | <i>Cantharis fusca</i>        | Cantharis fusca        | <ul style="list-style-type: none"> <li>Nationally Scarce</li> </ul>                                                                                                       | 2004 | 2013 | 6  |
|                            | <i>Cassida nobilis</i>        | Cassida nobilis        | <ul style="list-style-type: none"> <li>Nationally Scarce</li> </ul>                                                                                                       | 2006 | 2006 | 1  |

|                                          |                                   |                                                                                                                                                                                                         |      |      |    |
|------------------------------------------|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|----|
| <i>Cerapheles terminatus</i>             | Cerapheles terminatus             | • Nationally Rare                                                                                                                                                                                       | 2004 | 2012 | 4  |
| <i>Cordicollis instabilis</i>            | Cordicollis instabilis            | • Nationally Scarce                                                                                                                                                                                     | 2003 | 2003 | 1  |
| <i>Cryptocephalus aureolus</i>           | Cryptocephalus aureolus           | • Nationally Scarce                                                                                                                                                                                     | 2010 | 2010 | 1  |
| <i>Dasytes niger</i>                     | Dasytes niger                     | • Nationally Rare                                                                                                                                                                                       | 2012 | 2012 | 1  |
| <i>Demetrias (Risophilus) imperialis</i> | Demetrias (Risophilus) imperialis | • Nationally Scarce                                                                                                                                                                                     | 1983 | 2004 | 3  |
| <i>Dicheirotichus obsoletus</i>          | Dicheirotichus obsoletus          | • Nationally Scarce                                                                                                                                                                                     | 2012 | 2012 | 1  |
| <i>Donacia thalassina</i>                | Donacia thalassina                | • Nationally Scarce                                                                                                                                                                                     | 2008 | 2008 | 1  |
| <i>Helops caeruleus</i>                  | Helops caeruleus                  | • Nationally Scarce                                                                                                                                                                                     | 1984 | 2004 | 5  |
| <i>Hippodamia (Adonia) variegata</i>     | Adonis' Ladybird                  | • Nationally Scarce                                                                                                                                                                                     | 2003 | 2003 | 1  |
| <i>Hypera (Hypera) fuscocinerea</i>      | Hypera (Hypera) fuscocinerea      | • Nationally Scarce                                                                                                                                                                                     | 2005 | 2005 | 1  |
| <i>Lixus (Eulixus) scabricollis</i>      | Lixus (Eulixus) scabricollis      | • IUCN_GB_pre94:IK                                                                                                                                                                                      | 2002 | 2006 | 6  |
| <i>Longitarsus dorsalis</i>              | Longitarsus dorsalis              | • Nationally Scarce                                                                                                                                                                                     | 2002 | 2002 | 1  |
| <i>Longitarsus parvulus</i>              | Flax Flea Beetle                  | • Nationally Scarce                                                                                                                                                                                     | 2006 | 2006 | 1  |
| <i>Lucanus cervus</i>                    | Stag Beetle                       | • Annex II of the Habitats Directive (non-priority species)<br>Nationally Scarce<br>Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006<br>Hampshire BAP | 1998 | 2013 | 51 |
| <i>Magdalis (Porrothus) cerasi</i>       | Magdalis (Porrothus) cerasi       | • Nationally Scarce                                                                                                                                                                                     | 2012 | 2012 | 1  |
| <i>Mecinus circulatus</i>                | Mecinus circulatus                | • Nationally Scarce                                                                                                                                                                                     | 2015 | 2015 | 1  |
| <i>Neliocarus faber</i>                  | Neliocarus faber                  | • Nationally Scarce                                                                                                                                                                                     | 1973 | 2013 | 4  |
| <i>Nicrophorus interruptus</i>           | Nicrophorus interruptus           | • Nationally Scarce                                                                                                                                                                                     | 2015 | 2015 | 1  |
| <i>Notaris scirpi</i>                    | Notaris scirpi                    | • Nationally Scarce                                                                                                                                                                                     | 1977 | 2003 | 3  |
| <i>Oedemera (Oncomera) femoralis</i>     | Oedemera (Oncomera) femoralis     | • Nationally Scarce                                                                                                                                                                                     | 2002 | 2002 | 1  |
| <i>Orsodacne cerasi</i>                  | Orsodacne cerasi                  | • Nationally Scarce                                                                                                                                                                                     | 2011 | 2011 | 1  |
| <i>Orsodacne humeralis</i>               | Orsodacne humeralis               | • Nationally Scarce                                                                                                                                                                                     | 2006 | 2007 | 2  |

|                            |                                            |                                   |                                                           |      |      |   |
|----------------------------|--------------------------------------------|-----------------------------------|-----------------------------------------------------------|------|------|---|
|                            | <i>Paracorymbia fulva</i>                  | Paracorymbia fulva                | • IUCN_GB_pre94:R                                         | 2011 | 2012 | 2 |
|                            | <i>Phaleria cadaverina</i>                 | Phaleria cadaverina               | • Nationally Scarce                                       | 2003 | 2003 | 3 |
|                            | <i>Pilemostoma fastuosa</i>                | Pilemostoma fastuosa              | • IUCN_GB_2001:NT<br>Nationally Rare<br>Nationally Scarce | 2012 | 2012 | 1 |
|                            | <i>Polydrusus (Eurodrusus) confluens</i>   | Polydrusus (Eurodrusus) confluens | • Nationally Scarce                                       | 2008 | 2008 | 1 |
|                            | <i>Polydrusus (Neoeustolus) pulchellus</i> | Sea-Wormwood Weevil               | • Nationally Scarce                                       | 2005 | 2005 | 1 |
|                            | <i>Pselactus spadix</i>                    | Pselactus spadix                  | • Nationally Scarce                                       | 2004 | 2004 | 1 |
|                            | <i>Pyrochroa coccinea</i>                  | Black-headed Cardinal Beetle      | • Nationally Scarce                                       | 2008 | 2008 | 1 |
|                            | <i>Silpha obscura</i>                      | Silpha obscura                    | • IUCN_GB_pre94:VU                                        | 2003 | 2003 | 1 |
|                            | <i>Sitona waterhousei</i>                  | Sitona waterhousei                | • Nationally Scarce                                       | 2006 | 2006 | 1 |
|                            | <i>Tanymecus palliatus</i>                 | Tanymecus palliatus               | • Nationally Scarce                                       | 2006 | 2006 | 1 |
|                            | <i>Tetratoma desmarestii</i>               | Tetratoma desmarestii             | • Nationally Scarce                                       | 2002 | 2002 | 1 |
|                            | <i>Thinobius bicolor</i>                   | Thinobius bicolor                 | • Nationally Scarce                                       | 2008 | 2008 | 1 |
| Invertebrates - Dermaptera | <i>Forficula lesnei</i>                    | Lesne's Earwig                    | • Nationally Scarce                                       | 2005 | 2013 | 8 |
| Invertebrates - Diptera    | <i>Cistogaster globosa</i>                 | Cistogaster globosa               | • IUCN_GB_pre94:EN                                        | 2012 | 2012 | 1 |
|                            | <i>Leopoldius signatus</i>                 | Leopoldius signatus               | • Nationally Notable                                      | 1992 | 2008 | 3 |
|                            | <i>Melieria picta</i>                      | Melieria picta                    | • Nationally Notable                                      | 2003 | 2003 | 3 |
|                            | <i>Myolepta dubia</i>                      | Myolepta dubia                    | • Nationally Notable<br>Nationally Scarce                 | 2008 | 2008 | 1 |
|                            | <i>Opomyza punctata</i>                    | Opomyza punctata                  | • Nationally Notable                                      | 2003 | 2003 | 1 |
| Invertebrates - Hemiptera  | <i>Aquarius najas</i>                      | River Skater                      | • Nationally Scarce                                       | 2015 | 2015 | 1 |
|                            | <i>Eurygaster maura</i>                    | Eurygaster maura                  | • Nationally Scarce                                       | 2007 | 2007 | 1 |
|                            | <i>Gonocerus acuteangulatus</i>            | Box Bug                           | • IUCN_GB_pre94:EN                                        | 2005 | 2007 | 4 |
|                            | <i>Lygus pratensis</i>                     | Lygus pratensis                   | • IUCN_GB_pre94:R                                         | 2003 | 2006 | 5 |
|                            | <i>Nysius graminicola</i>                  | Nysius graminicola                | • IUCN_GB_pre94:R                                         | 2003 | 2006 | 3 |

|                                |                                                |                                         |                                                                                                      |      |      |   |
|--------------------------------|------------------------------------------------|-----------------------------------------|------------------------------------------------------------------------------------------------------|------|------|---|
|                                | <i>Orthotylus (Melanotrichus) moncreaffi</i>   | Orthotylus (Melanotrichus) moncreaffi   | • IUCN_GB_pre94:R<br>Hampshire BAP                                                                   | 2003 | 2006 | 2 |
|                                | <i>Psallus (Psallus) albicinctus</i>           | Psallus (Psallus) albicinctus           | • Nationally Scarce                                                                                  | 2008 | 2008 | 2 |
|                                | <i>Saldula pilosella</i>                       | Saldula pilosella                       | • Nationally Scarce                                                                                  | 2003 | 2003 | 1 |
|                                | <i>Stictopleurus abutilon</i>                  | Stictopleurus abutilon                  | • IUCN_GB_pre94:EX                                                                                   | 2010 | 2010 | 1 |
| Invertebrates -<br>Hymenoptera | <i>Andrena (Hoplandrena) trimmerana</i>        | Trimmer's Mining Bee                    | • Nationally Scarce                                                                                  | 2012 | 2013 | 2 |
|                                | <i>Andrena (Poecilandrena) labiata</i>         | Red-girdled Mining Bee                  | • Nationally Scarce                                                                                  | 2003 | 2007 | 3 |
|                                | <i>Aporus unicolor</i>                         | Aporus unicolor                         | • Nationally Scarce                                                                                  | 2015 | 2015 | 1 |
|                                | <i>Chrysis gracillima</i>                      | Chrysis gracillima                      | • IUCN_GB_pre94:VU                                                                                   | 2003 | 2005 | 2 |
|                                | <i>Crossocerus (Crossocerus) distinguendus</i> | Crossocerus (Crossocerus) distinguendus | • Nationally Scarce                                                                                  | 2015 | 2015 | 2 |
|                                | <i>Dolichovespula (Dolichovespula) media</i>   | Dolichovespula (Dolichovespula) media   | • Nationally Scarce                                                                                  | 1994 | 2008 | 3 |
|                                | <i>Formica rufa</i>                            | Red Wood Ant                            | • Hampshire BAP<br>County Scarce                                                                     | 2003 | 2003 | 1 |
|                                | <i>Hylaeus (Lamdopsis) annularis</i>           | Hylaeus (Lamdopsis) annularis           | • IUCN_GB_pre94:R                                                                                    | 2005 | 2005 | 1 |
|                                | <i>Lasioglossum (Evylaeus) malachurum</i>      | Sharp-collared Furrow Bee               | • Nationally Scarce                                                                                  | 2002 | 2005 | 3 |
|                                | <i>Mutilla europaea</i>                        | Large Velvet Ant                        | • Nationally Scarce                                                                                  | 2010 | 2010 | 2 |
|                                | <i>Nomada fucata</i>                           | Painted Nomad Bee                       | • Nationally Scarce                                                                                  | 2012 | 2012 | 2 |
|                                | <i>Philanthus triangulum</i>                   | Bee Wolf                                | • IUCN_GB_pre94:VU                                                                                   | 2003 | 2013 | 3 |
|                                | <i>Sphecodes crassus</i>                       | Swollen-thighed Blood Bee               | • Nationally Scarce                                                                                  | 2005 | 2013 | 3 |
| Invertebrates -<br>Lepidoptera | <i>Acronicta psi</i>                           | Grey Dagger                             | • Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006 | 2002 | 2015 | 4 |
|                                | <i>Acronicta rumicis</i>                       | Knot Grass                              | • Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006 | 2004 | 2015 | 2 |
|                                | <i>Adela cuprella</i>                          | Early Long-horn                         | • County Rare                                                                                        | 2012 | 2015 | 3 |
|                                | <i>Aethes williana</i>                         | Silver Carrot Conch                     | • County Rare                                                                                        | 2006 | 2006 | 1 |
|                                | <i>Agdistis bennetii</i>                       | Saltmarsh Plume                         | • County Rare                                                                                        | 2014 | 2014 | 1 |

|                                    |                          |                                                                                                                         |      |      |    |
|------------------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------|------|------|----|
| <i>Agriopsis aurantiaria</i>       | Scarce Umber             | • County Scarce                                                                                                         | 2013 | 2013 | 1  |
| <i>Agrochola helvola</i>           | Flounced Chestnut        | • Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006                    | 2004 | 2004 | 1  |
| <i>Agrochola lychnidis</i>         | Beaded Chestnut          | • Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006                    | 2003 | 2003 | 1  |
| <i>Amphipoea oculea</i>            | Ear Moth                 | • Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006                    | 2003 | 2014 | 2  |
| <i>Arctia caja</i>                 | Garden Tiger             | • Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006                    | 2005 | 2005 | 1  |
| <i>Argynnis aglaja</i>             | Dark Green Fritillary    | • County Scarce                                                                                                         | 2005 | 2005 | 1  |
| <i>Argynnis paphia</i>             | Silver-washed Fritillary | • Hampshire BAP<br>County Interest                                                                                      | 2003 | 2016 | 46 |
| <i>Aspitates ochrearia</i>         | Yellow Belle             | • County Scarce                                                                                                         | 1995 | 2015 | 5  |
| <i>Caradrina morpheus</i>          | Mottled Rustic           | • Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006                    | 2005 | 2014 | 3  |
| <i>Chesias legatella</i>           | Streak                   | • Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006<br>County Scarce   | 2009 | 2009 | 1  |
| <i>Chlorissa viridata</i>          | Small Grass Emerald      | • Hampshire BAP                                                                                                         | 2006 | 2006 | 1  |
| <i>Cirrhia icteritia</i>           | Sallow                   | • Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006                    | 2013 | 2013 | 1  |
| <i>Coenonympha pamphilus</i>       | Small Heath              | • IUCN_GB_2001:NT<br>Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006 | 1996 | 2015 | 15 |
| <i>Coleophora limosipennella</i>   | Dark Elm Case-bearer     | • County Rare                                                                                                           | 2012 | 2012 | 2  |
| <i>Coleophora maritimella</i>      | Sea-rush Case-bearer     | • County Rare                                                                                                           | 2012 | 2012 | 3  |
| <i>Coleophora pyrrhulipennella</i> | Ling Case-bearer         | • County Rare                                                                                                           | 2004 | 2005 | 2  |
| <i>Coleophora salinella</i>        | Sea-purslane Case-bearer | • County Rare                                                                                                           | 2003 | 2003 | 1  |
| <i>Cosmopterix scribaiella</i>     | New Marsh Cosmet         | • County Scarce                                                                                                         | 2003 | 2011 | 3  |
| <i>Cryphia algae</i>               | Tree-lichen Beauty       | • County Rare                                                                                                           | 2005 | 2005 | 1  |



|                                |                        |                                                                                                                                                                                                                                     |      |      |   |
|--------------------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|---|
| <i>Cupido minimus</i>          | Small Blue             | <ul style="list-style-type: none"> <li>• IUCN_GB_2001:NT</li> <li>• Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006</li> <li>• Hampshire BAP</li> <li>• County Scarce</li> </ul> | 2010 | 2014 | 2 |
| <i>Diarsia rubi</i>            | Small Square-spot      | <ul style="list-style-type: none"> <li>• Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006</li> </ul>                                                                              | 2006 | 2008 | 5 |
| <i>Dolicharthria punctalis</i> | Long-legged China-mark | <ul style="list-style-type: none"> <li>• Nationally Scarce</li> </ul>                                                                                                                                                               | 1994 | 2003 | 4 |
| <i>Ecliptopera silaceata</i>   | Small Phoenix          | <ul style="list-style-type: none"> <li>• Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006</li> </ul>                                                                              | 2002 | 2009 | 4 |
| <i>Eilema sororcula</i>        | Orange Footman         | <ul style="list-style-type: none"> <li>• Hampshire BAP</li> </ul>                                                                                                                                                                   | 2003 | 2011 | 4 |
| <i>Ennomos fuscantaria</i>     | Dusky Thorn            | <ul style="list-style-type: none"> <li>• Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006</li> </ul>                                                                              | 2009 | 2009 | 1 |
| <i>Ephestia parasitella</i>    | False Cacao Moth       | <ul style="list-style-type: none"> <li>• County Rare</li> </ul>                                                                                                                                                                     | 2004 | 2004 | 1 |
| <i>Epiblema sticticana</i>     | Colt's-foot Bell       | <ul style="list-style-type: none"> <li>• County Rare</li> </ul>                                                                                                                                                                     | 2015 | 2015 | 1 |
| <i>Eugnorisma glareosa</i>     | Autumnal Rustic        | <ul style="list-style-type: none"> <li>• Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006</li> <li>• County Scarce</li> </ul>                                                     | 2013 | 2013 | 1 |
| <i>Eupithecia simpliciata</i>  | Plain Pug              | <ul style="list-style-type: none"> <li>• County Scarce</li> </ul>                                                                                                                                                                   | 2003 | 2003 | 1 |
| <i>Eupithecia subumbrata</i>   | Shaded Pug             | <ul style="list-style-type: none"> <li>• County Scarce</li> </ul>                                                                                                                                                                   | 2002 | 2002 | 2 |
| <i>Euxoa tritici</i>           | White-line Dart        | <ul style="list-style-type: none"> <li>• Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006</li> <li>• County Scarce</li> </ul>                                                     | 1998 | 2014 | 2 |
| <i>Grapholita internana</i>    | Dark Gorse Piercer     | <ul style="list-style-type: none"> <li>• County Rare</li> </ul>                                                                                                                                                                     | 2011 | 2013 | 2 |
| <i>Hadena perplexa</i>         | Tawny Shears           | <ul style="list-style-type: none"> <li>• County Scarce</li> </ul>                                                                                                                                                                   | 2002 | 2002 | 1 |
| <i>Hipparchia semele</i>       | Grayling               | <ul style="list-style-type: none"> <li>• IUCN_GB_2001:VU</li> <li>• Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006</li> </ul>                                                   | 2009 | 2010 | 2 |
| <i>Hoplodrina blanda</i>       | Rustic                 | <ul style="list-style-type: none"> <li>• Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006</li> </ul>                                                                              | 2002 | 2014 | 4 |
| <i>Lacanobia suasa</i>         | Dog's Tooth            | <ul style="list-style-type: none"> <li>• County Scarce</li> </ul>                                                                                                                                                                   | 2002 | 2002 | 1 |
| <i>Larentia clavaria</i>       | Mallow                 | <ul style="list-style-type: none"> <li>• County Scarce</li> </ul>                                                                                                                                                                   | 2002 | 2005 | 3 |

|                                  |                        |                                                                                                                                                                                                          |      |      |    |
|----------------------------------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|----|
| <i>Lasiommata megera</i>         | Wall                   | <ul style="list-style-type: none"> <li>IUCN_GB_2001:NT</li> </ul> Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006<br>County Scarce                    | 2005 | 2012 | 6  |
| <i>Limenitis camilla</i>         | White Admiral          | <ul style="list-style-type: none"> <li>IUCN_GB_2001:VU</li> </ul> Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006                                     | 1996 | 2012 | 20 |
| <i>Lithophane semibrunnea</i>    | Tawny Pinion           | <ul style="list-style-type: none"> <li>County Scarce</li> </ul>                                                                                                                                          | 2007 | 2007 | 1  |
| <i>Litoligia literosa</i>        | Rosy Minor             | <ul style="list-style-type: none"> <li>Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006</li> </ul>                                                     | 2005 | 2009 | 2  |
| <i>Malacosoma neustria</i>       | Lackey                 | <ul style="list-style-type: none"> <li>Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006</li> </ul>                                                     | 2002 | 2012 | 8  |
| <i>Melanthia procellata</i>      | Pretty Chalk Carpet    | <ul style="list-style-type: none"> <li>Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006</li> </ul>                                                     | 2003 | 2003 | 1  |
| <i>Oncocera semirubella</i>      | Rosy-striped Knot-horn | <ul style="list-style-type: none"> <li>Nationally Scarce</li> </ul>                                                                                                                                      | 2014 | 2014 | 1  |
| <i>Panemeria tenebrata</i>       | Small Yellow Underwing | <ul style="list-style-type: none"> <li>County Scarce</li> </ul>                                                                                                                                          | 2006 | 2006 | 2  |
| <i>Perizoma albulata</i>         | Grass Rivulet          | <ul style="list-style-type: none"> <li>County Scarce</li> </ul>                                                                                                                                          | 2011 | 2011 | 1  |
| <i>Phyllonorycter salictella</i> | Willow Midget          | <ul style="list-style-type: none"> <li>County Rare</li> </ul>                                                                                                                                            | 2003 | 2003 | 1  |
| <i>Platytes cerussella</i>       | Little Grass-veneer    | <ul style="list-style-type: none"> <li>County Rare</li> </ul>                                                                                                                                            | 1994 | 2006 | 5  |
| <i>Plebejus argus</i>            | Silver-studded Blue    | <ul style="list-style-type: none"> <li>IUCN_GB_2001:VU</li> </ul> Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006<br>Hampshire BAP<br>County Interest | 1982 | 2013 | 6  |
| <i>Polymixis lichenea</i>        | Feathered Ranunculus   | <ul style="list-style-type: none"> <li>County Scarce</li> </ul>                                                                                                                                          | 2000 | 2009 | 5  |
| <i>Polyommatus bellargus</i>     | Adonis Blue            | <ul style="list-style-type: none"> <li>IUCN_GB_2001:NT</li> </ul> Hampshire BAP<br>County Rare                                                                                                           | 2003 | 2003 | 1  |
| <i>Pyrgus malvae</i>             | Grizzled Skipper       | <ul style="list-style-type: none"> <li>IUCN_GB_2001:VU</li> </ul> Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006<br>County Interest                  | 1996 | 2009 | 18 |
| <i>Rhizedra lutosa</i>           | Large Wainscot         | <ul style="list-style-type: none"> <li>Priority Species listed under Section 41 of the Natural Environment</li> </ul>                                                                                    | 1995 | 2002 | 4  |

|                          |                                  |                              |                                                                                                                                                           |      |      |    |
|--------------------------|----------------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|----|
|                          |                                  |                              | and Rural Communities Act 2006                                                                                                                            |      |      |    |
|                          | <i>Saturnia pavonia</i>          | Emperor Moth                 | • County Scarce                                                                                                                                           | 2004 | 2004 | 1  |
|                          | <i>Satyrrium w-album</i>         | White-letter Hairstreak      | • IUCN_GB_2001:EN<br>Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006<br>Hampshire BAP<br>County Scarce | 2001 | 2009 | 15 |
|                          | <i>Scrobipalpa instabilella</i>  | Saltern Groundling           | • County Rare                                                                                                                                             | 2012 | 2012 | 2  |
|                          | <i>Sitochroa palealis</i>        | Sulphur Pearl                | • Nationally Notable                                                                                                                                      | 1994 | 2010 | 4  |
|                          | <i>Spilosoma lubricipeda</i>     | White Ermine                 | • Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006                                                      | 2003 | 2012 | 2  |
|                          | <i>Spilosoma lutea</i>           | Buff Ermine                  | • Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006                                                      | 2005 | 2005 | 1  |
|                          | <i>Stenoptilia zophodactylus</i> | Dowdy Plume                  | • County Rare                                                                                                                                             | 2014 | 2014 | 1  |
|                          | <i>Stigmella aeneofasciella</i>  | Brassy Pigmy                 | • County Rare                                                                                                                                             | 2008 | 2008 | 4  |
|                          | <i>Synaphe punctalis</i>         | Long-legged Tabby            | • Nationally Scarce                                                                                                                                       | 1998 | 2014 | 4  |
|                          | <i>Timandra comae</i>            | Blood-Vein                   | • Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006                                                      | 2006 | 2006 | 1  |
|                          | <i>Tyria jacobaeae</i>           | Cinnabar                     | • Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006                                                      | 1993 | 2014 | 30 |
|                          | <i>Watsonalla binaria</i>        | Oak Hook-tip                 | • Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006                                                      | 2004 | 2006 | 5  |
|                          | <i>Zygaena trifolii</i>          | Five-spot Burnet             | • County Scarce                                                                                                                                           | 2011 | 2011 | 1  |
| Invertebrates - Mollusca | <i>Arion (Arion) ater</i>        | Large Black Slug             | • IUCN_GB_2001:DD                                                                                                                                         | 1998 | 2010 | 8  |
|                          | <i>Ashfordia granulata</i>       | Silky Snail                  | • Hampshire BAP<br>County Scarce                                                                                                                          | 2007 | 2007 | 2  |
| Invertebrates - Odonata  | <i>Ceriagrion tenellum</i>       | Small Red Damselfly          | • Hampshire BAP                                                                                                                                           | 2013 | 2013 | 1  |
|                          | <i>Cordulia aenea</i>            | Downy Emerald                | • Hampshire BAP                                                                                                                                           | 2002 | 2005 | 5  |
|                          | <i>Ischnura pumilio</i>          | Scarce Blue-tailed Damselfly | • IUCN_GB_2001:NT<br>Hampshire BAP                                                                                                                        | 2002 | 2002 | 5  |
|                          | <i>Libellula fulva</i>           | Scarce Chaser                | • IUCN_GB_2001:NT<br>Hampshire BAP                                                                                                                        | 2013 | 2013 | 1  |

|                                               |                               |                       |                                                                                                                                                                                                                                                                                                                                                                                                        |      |      |    |
|-----------------------------------------------|-------------------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|----|
|                                               | <i>Orthetrum coerulescens</i> | Keeled Skimmer        | • Hampshire BAP                                                                                                                                                                                                                                                                                                                                                                                        | 2005 | 2013 | 3  |
| Invertebrates - Orthoptera                    | <i>Nemobius sylvestris</i>    | Wood Cricket          | • Nationally Scarce                                                                                                                                                                                                                                                                                                                                                                                    | 2006 | 2006 | 1  |
|                                               | <i>Omocestus rufipes</i>      | Woodland Grasshopper  | • Nationally Scarce                                                                                                                                                                                                                                                                                                                                                                                    | 2008 | 2008 | 1  |
| Lichens                                       | <i>Cladonia coniocraea</i>    | Cladonia coniocraea   | • Annex V Habitats Directive                                                                                                                                                                                                                                                                                                                                                                           | 2002 | 2002 | 1  |
| Lower plants - Liverworts, Hornworts & Mosses | <i>Leucobryum glaucum</i>     | Large White-moss      | • Annex V Habitats Directive                                                                                                                                                                                                                                                                                                                                                                           | 1999 | 2009 | 9  |
|                                               | <i>Pallavicinia lyellii</i>   | Ribbonwort            | • Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006<br>Hampshire BAP                                                                                                                                                                                                                                                                                  | 2001 | 2006 | 4  |
|                                               | <i>Sphagnum</i>               | Bog Moss              | • Annex V Habitats Directive                                                                                                                                                                                                                                                                                                                                                                           | 1991 | 2015 | 7  |
|                                               | <i>Sphagnum denticulatum</i>  | Sphagnum denticulatum | • Annex V Habitats Directive                                                                                                                                                                                                                                                                                                                                                                           | 1999 | 1999 | 1  |
|                                               | <i>Sphagnum fallax</i>        | Flat-topped Bog-moss  | • Annex V Habitats Directive                                                                                                                                                                                                                                                                                                                                                                           | 1999 | 1999 | 1  |
|                                               | <i>Sphagnum fimbriatum</i>    | Fringed Bog-moss      | • Annex V Habitats Directive                                                                                                                                                                                                                                                                                                                                                                           | 1999 | 1999 | 1  |
|                                               | <i>Sphagnum palustre</i>      | Blunt-leaved Bog-moss | • Annex V Habitats Directive                                                                                                                                                                                                                                                                                                                                                                           | 2004 | 2015 | 2  |
|                                               | <i>Sphagnum recurvum</i>      | Sphagnum recurvum     | • Annex V Habitats Directive                                                                                                                                                                                                                                                                                                                                                                           | 2004 | 2004 | 2  |
| Mammals - Marine                              | <i>Sphagnum squarrosum</i>    | Spiky Bog-moss        | • Annex V Habitats Directive                                                                                                                                                                                                                                                                                                                                                                           | 1999 | 2004 | 2  |
|                                               | <i>Halichoerus grypus</i>     | Grey Seal             | • Annex II of the Habitats Directive (non-priority species)<br>Annex V Habitats Directive                                                                                                                                                                                                                                                                                                              | 2009 | 2010 | 4  |
|                                               | <i>Phoca vitulina</i>         | Common Seal           | • Annex II of the Habitats Directive (non-priority species)<br>Annex V Habitats Directive                                                                                                                                                                                                                                                                                                              | 2008 | 2010 | 12 |
| Mammals - Terrestrial (bats)                  | <i>Chiroptera</i>             | Bats                  | • Annex II of the Habitats Directive (non-priority species)<br>Annex IV Habitats Directive<br>Schedule 2 of Conservation of Habitats and Species Regulations 2010<br>Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006<br>Schedule 5 Section 9 (4b); Schedule 5 Section 9 (4c) of Wildlife & Countryside Act 1981<br>Hampshire BAP<br>County Interest | 1988 | 2016 | 11 |

|  |                                   |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |      |    |
|--|-----------------------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|----|
|  | <i>Eptesicus serotinus</i>        | Serotine               | <ul style="list-style-type: none"> <li>Annex IV Habitats Directive<br/>Schedule 2 of Conservation of Habitats and Species Regulations 2010<br/>Schedule 5 Section 9 (4b); Schedule 5 Section 9 (4c) of Wildlife &amp; Countryside Act 1981<br/>Hampshire BAP</li> </ul>                                                                                                                                                                                          | 1987 | 2016 | 19 |
|  | <i>Myotis</i>                     | Unidentified Bat       | <ul style="list-style-type: none"> <li>Annex II of the Habitats Directive (non-priority species)<br/>Annex IV Habitats Directive<br/>Schedule 2 of Conservation of Habitats and Species Regulations 2010<br/>Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006<br/>Schedule 5 Section 9 (4b); Schedule 5 Section 9 (4c) of Wildlife &amp; Countryside Act 1981<br/>Hampshire BAP<br/>County Interest</li> </ul> | 2004 | 2016 | 6  |
|  | <i>Myotis daubentonii</i>         | Daubenton's Bat        | <ul style="list-style-type: none"> <li>Annex IV Habitats Directive<br/>Schedule 2 of Conservation of Habitats and Species Regulations 2010<br/>Schedule 5 Section 9 (4b); Schedule 5 Section 9 (4c) of Wildlife &amp; Countryside Act 1981</li> </ul>                                                                                                                                                                                                            | 2001 | 2016 | 5  |
|  | <i>Myotis mystacinus</i>          | Whiskered Bat          | <ul style="list-style-type: none"> <li>Annex IV Habitats Directive<br/>Schedule 2 of Conservation of Habitats and Species Regulations 2010<br/>Schedule 5 Section 9 (4b); Schedule 5 Section 9 (4c) of Wildlife &amp; Countryside Act 1981</li> </ul>                                                                                                                                                                                                            | 2011 | 2016 | 3  |
|  | <i>Myotis mystacinus/brandtii</i> | Whiskered/Brandt's Bat | <ul style="list-style-type: none"> <li>Schedule 2 of Conservation of Habitats and Species Regulations 2010<br/>Schedule 5 Section 9 (4b); Schedule 5 Section 9 (4c) of Wildlife &amp; Countryside Act 1981</li> </ul>                                                                                                                                                                                                                                            | 2001 | 2016 | 4  |

|  |                                  |                         |                                                                                                                                                                                                                                                                                                                                                                                |      |      |    |
|--|----------------------------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|----|
|  | <i>Myotis nattereri</i>          | Natterer's Bat          | <ul style="list-style-type: none"> <li>Annex IV Habitats Directive<br/>Schedule 2 of Conservation of Habitats and Species Regulations 2010<br/>Schedule 5 Section 9 (4b); Schedule 5 Section 9 (4c) of Wildlife &amp; Countryside Act 1981</li> </ul>                                                                                                                          | 2003 | 2016 | 34 |
|  | <i>Nyctalus noctula</i>          | Noctule Bat             | <ul style="list-style-type: none"> <li>Annex IV Habitats Directive<br/>Schedule 2 of Conservation of Habitats and Species Regulations 2010<br/>Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006<br/>Schedule 5 Section 9 (4b); Schedule 5 Section 9 (4c) of Wildlife &amp; Countryside Act 1981</li> </ul>                   | 1997 | 2016 | 28 |
|  | <i>Pipistrellus</i>              | Pipistrelle Bat species | <ul style="list-style-type: none"> <li>Annex IV Habitats Directive<br/>Schedule 2 of Conservation of Habitats and Species Regulations 2010<br/>Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006<br/>Schedule 5 Section 9 (4b); Schedule 5 Section 9 (4c) of Wildlife &amp; Countryside Act 1981<br/>Hampshire BAP</li> </ul> | 1984 | 2015 | 63 |
|  | <i>Pipistrellus pipistrellus</i> | Pipistrelle             | <ul style="list-style-type: none"> <li>Annex IV Habitats Directive<br/>Schedule 2 of Conservation of Habitats and Species Regulations 2010<br/>Schedule 5 Section 9 (4b); Schedule 5 Section 9 (4c) of Wildlife &amp; Countryside Act 1981<br/>Hampshire BAP</li> </ul>                                                                                                        | 2000 | 2016 | 47 |
|  | <i>Pipistrellus pygmaeus</i>     | Soprano Pipistrelle     | <ul style="list-style-type: none"> <li>Annex IV Habitats Directive<br/>Schedule 2 of Conservation of Habitats and Species Regulations 2010<br/>Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006<br/>Schedule 5 Section 9 (4b); Schedule 5 Section 9 (4c) of Wildlife &amp; Countryside Act 1981<br/>Hampshire BAP</li> </ul> | 1999 | 2016 | 39 |

|                                     |                            |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |      |    |
|-------------------------------------|----------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|----|
|                                     | <i>Plecotus</i>            | Long-eared Bat species | <ul style="list-style-type: none"> <li>Annex IV Habitats Directive</li> <li>Schedule 2 of Conservation of Habitats and Species Regulations 2010</li> <li>Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006</li> <li>Schedule 5 Section 9 (4b); Schedule 5 Section 9 (4c) of Wildlife &amp; Countryside Act 1981</li> <li>Hampshire BAP</li> <li>County Interest</li> </ul>                                           | 1997 | 2016 | 7  |
|                                     | <i>Plecotus auritus</i>    | Brown Long-eared Bat   | <ul style="list-style-type: none"> <li>Annex IV Habitats Directive</li> <li>Schedule 2 of Conservation of Habitats and Species Regulations 2010</li> <li>Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006</li> <li>Schedule 5 Section 9 (4b); Schedule 5 Section 9 (4c) of Wildlife &amp; Countryside Act 1981</li> </ul>                                                                                           | 1986 | 2016 | 30 |
| Mammals -<br>Terrestrial (non-bats) | <i>Arvicola amphibius</i>  | European Water Vole    | <ul style="list-style-type: none"> <li>Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006</li> <li>Schedule 5 Section 9 (4b); Schedule 5 Section 9 (4b); Schedule 5 Section 9 (4c) of Wildlife &amp; Countryside Act 1981</li> <li>Hampshire BAP</li> <li>County Interest</li> </ul>                                                                                                                                  | 2002 | 2009 | 2  |
|                                     | <i>Erinaceus europaeus</i> | West European Hedgehog | <ul style="list-style-type: none"> <li>Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006</li> </ul>                                                                                                                                                                                                                                                                                                                  | 2006 | 2013 | 24 |
|                                     | <i>Lutra lutra</i>         | European Otter         | <ul style="list-style-type: none"> <li>Annex II of the Habitats Directive (non-priority species)</li> <li>Annex IV Habitats Directive</li> <li>Schedule 2 of Conservation of Habitats and Species Regulations 2010</li> <li>Priority Species listed under Section 41 of the Natural Environment and Rural Communities Act 2006</li> <li>Schedule 5 Section 9 (4b); Schedule 5 Section 9 (4c) of Wildlife &amp; Countryside Act 1981</li> <li>Hampshire BAP</li> </ul> | 2006 | 2006 | 1  |
|                                     | <i>Meles meles</i>         | Eurasian Badger        | <ul style="list-style-type: none"> <li>Protection of Badgers Act 1992</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                      | 2008 | 2014 | 4  |

|  |                       |                      |                                                                                       |      |      |   |
|--|-----------------------|----------------------|---------------------------------------------------------------------------------------|------|------|---|
|  | <i>Neomys fodiens</i> | Eurasian Water Shrew | <ul style="list-style-type: none"><li>• Hampshire BAP</li><li>County Scarce</li></ul> | 2009 | 2009 | 1 |
|--|-----------------------|----------------------|---------------------------------------------------------------------------------------|------|------|---|



**Appendix 3:**  
Map showing location of statutory designated sites

**Appendix 4:**  
Map showing location of non-statutory designated sites

## Appendix 5:

Botanical species list compiled during Phase 1 habitat survey with a qualitative measure of abundance based on DAFOR scale

**Appendix 5:** Botanical species list compiled during Phase 1 habitat survey with a qualitative measure of abundance based on DAFOR scale.

The DAFOR scale provides an assessment of the abundance of particular species.

D = Dominant, A = Abundant, F = Frequent, O = Occasional, R = Rare. Species can also be Locally Dominant (LD) or Locally Abundant (LA) meaning there is a particularly dense patch but it does not extend to an entire area, for example a nettle bed.

| English Name        | Scientific Name                        | DAFOR              |                 |              |          |                  |                 |                                  |                        |            |
|---------------------|----------------------------------------|--------------------|-----------------|--------------|----------|------------------|-----------------|----------------------------------|------------------------|------------|
|                     |                                        | Donkey derby field | Heather gardens | Hamble green | Cemetery | Westfield common | Mercury marshes | Mount pleasant recreation ground | College playing fields | Allotments |
| Annual meadow grass | <i>Poa annua</i>                       | R                  |                 | O            |          | R                |                 | F                                | O                      |            |
| Apple               | <i>Malus sp.</i>                       |                    |                 |              |          |                  | R               |                                  |                        |            |
| Apple               | <i>Malus pumila</i>                    |                    |                 |              |          |                  |                 | R                                |                        |            |
| Ash                 | <i>Fraxinus excelsior</i>              | R                  | R               |              |          | R                | O               | R                                | O                      | O          |
| Azalea              | <i>Rhododendron sp.</i>                |                    |                 |              |          |                  | R               |                                  |                        |            |
| Bamboo              | <i>Bambusoideae sp.</i>                |                    | LA              |              |          |                  | R               |                                  |                        |            |
| Beech               | <i>Fagus sylvatica</i>                 |                    | R               |              |          |                  |                 |                                  |                        |            |
| Black bryony        | <i>Dioscorea communis</i>              |                    |                 |              |          |                  |                 | R                                |                        |            |
| Black medick        | <i>Medicago lupulina</i>               | R                  |                 |              |          |                  |                 |                                  |                        |            |
| Blackthorn          | <i>Prunus spinosa</i>                  |                    |                 |              |          | R                | R               |                                  |                        |            |
| Box                 | <i>Buxus sp.</i>                       | LA                 |                 |              |          |                  |                 |                                  |                        |            |
| Bracken             | <i>Pteridium sp.</i>                   | LA                 | R               |              |          | F                | R               |                                  |                        | O          |
| Bramble             | <i>Rubus fruticosus</i>                | LA                 | F               |              | O        | F                | O               | O                                | R                      |            |
| Broad-leaved dock   | <i>Rumex obtusifolius</i>              | O                  |                 | R            | O        |                  | R               |                                  | R                      | O          |
| Broom               | <i>Cytisus scoparius spp scoparius</i> |                    |                 |              |          |                  | R               |                                  |                        |            |
| Butcher's-broom     | <i>Ruscus aculeatus</i>                |                    | R               |              |          | R                |                 |                                  |                        |            |
| Cat's-ear           | <i>Hypochaeris radicata</i>            | R                  |                 |              | O        | R                | R               |                                  |                        |            |





|                     |                              |    |   |   |  |    |    |   |    |   |   |
|---------------------|------------------------------|----|---|---|--|----|----|---|----|---|---|
| Iris                | <i>Iris sp.</i>              |    |   |   |  | R  |    |   |    | R |   |
| Ivy                 | <i>Hedera helix</i>          | LA | A |   |  | LF | LA | O | LA | R | O |
| Knotgrass           | <i>Polygonum aviculare</i>   |    |   | O |  |    | R  |   |    |   |   |
| Lesser burdock      | <i>Arctium minus</i>         |    |   |   |  |    | R  |   |    |   |   |
| Lesser stitchwort   | <i>Stellaria graminea</i>    |    |   |   |  | F  |    |   |    |   |   |
| Lime sp.            | <i>Tilia sp.</i>             |    |   |   |  |    |    |   |    | R |   |
| Lime sp. (hybrid)   | <i>Tilia sp.</i>             |    |   | O |  |    |    |   |    |   |   |
| Male fern           | <i>Dryopteris filix-mas</i>  |    | R |   |  |    |    |   |    |   |   |
| Maple sp.           | <i>Acer sp.</i>              |    | R |   |  |    |    |   |    |   |   |
| Meadow buttercup    | <i>Ranunculus acris</i>      | R  |   |   |  |    |    |   |    |   |   |
| Musk-mallow         | <i>Malva moschata</i>        |    |   |   |  |    |    | R |    |   |   |
| Nipplewort          | <i>Lapsana communis</i>      |    |   |   |  | R  |    |   |    |   |   |
| Norway maple        | <i>Acer platanoides</i>      |    |   |   |  |    |    |   | R  |   |   |
| Osier               | <i>Salix viminalis</i>       |    |   |   |  |    |    |   |    | R |   |
| Pampas grass        | <i>Cortaderia selloana</i>   |    |   |   |  |    |    | R |    |   |   |
| Pear                | <i>Pyrus sp.</i>             |    |   |   |  |    |    |   |    | R |   |
| Pedunculate oak     | <i>Quercus robur</i>         | R  | O | O |  |    | O  | O | O  | R |   |
| Pendulous sedge     | <i>Carex pendula</i>         |    |   |   |  |    |    | R |    |   |   |
| Perennial rye grass | <i>Lolium perenne</i>        |    |   |   |  |    |    |   |    | O |   |
| Pine                | <i>Pinus sp.</i>             |    | R |   |  |    |    |   |    | R |   |
| Prickly sow-thistle | <i>Sonchus asper</i>         |    |   | R |  | R  |    |   |    |   | R |
| Privet              | <i>Ligustrum sp.</i>         |    |   |   |  |    |    | R |    | R |   |
| Purple toadflax     | <i>Linaria purpurea</i>      |    |   |   |  |    |    |   |    |   | R |
| Red clover          | <i>Trifolium pratense</i>    | R  |   |   |  | R  |    | R |    |   |   |
| Red dead nettle     | <i>Lamium purpureum</i>      |    |   | R |  |    | R  |   |    |   | R |
| Red fescue          | <i>Festuca rubra agg.</i>    | O  |   |   |  |    |    |   |    |   |   |
| Redshank            | <i>Persicaria maculosa</i>   |    |   |   |  |    |    | R |    | R |   |
| Rhododendron        | <i>Rhododendron ponticum</i> |    | R |   |  |    |    | O |    |   |   |
| Ribwort plantain    | <i>Plantago lanceolata</i>   | O  |   | F |  |    | R  | O | O  | R | O |

|                             |                                               |    |   |   |   |    |   |   |   |    |
|-----------------------------|-----------------------------------------------|----|---|---|---|----|---|---|---|----|
| Rose                        | <i>Rosa sp.</i>                               |    |   |   |   | R  | R | R | R |    |
| Rough hawkbit               | <i>Leontodon hispidus</i>                     | O  |   | O |   |    |   |   |   |    |
| Rowan                       | <i>Sorbus aucuparia</i>                       |    |   |   | O |    | R |   | R |    |
| Scarlet pimpernel           | <i>Anagallis arvensis</i>                     |    |   |   | R |    |   |   | R |    |
| Scented mayweed             | <i>Matricaria chamomilla</i>                  |    |   |   |   | R  |   |   |   |    |
| Scots pine                  | <i>Pinus sylvestris</i>                       |    |   |   |   |    |   | R |   |    |
| Sea beet                    | <i>Beta vulgaris subsp. maritima</i>          |    |   |   |   | O  |   |   |   |    |
| Sea couch                   | <i>Agropyron pungens</i>                      |    |   |   |   | LA |   |   |   |    |
| Sessile oak                 | <i>Quercus petraea</i>                        |    |   |   |   | R  |   |   |   |    |
| Sheeps sorrel               | <i>Rumex acetosella</i>                       | R  |   | O |   |    |   |   |   |    |
| Silver birch                | <i>Betula pendula</i>                         |    | R |   |   | R  |   |   |   |    |
| Small-leaved lime           | <i>Tilia cordata</i>                          |    |   | R |   |    |   |   |   |    |
| Smooth sow-thistle          | <i>Sonchus oleraceus</i>                      |    |   |   |   | R  |   |   |   |    |
| Snowberry                   | <i>Symphoricarpos albus</i>                   |    |   |   |   |    | R |   |   |    |
| Spear thistle               | <i>Cirsium vulgare</i>                        |    |   |   |   |    |   |   | O |    |
| Sweet chestnut              | <i>Castanea sativa</i>                        | R  |   |   | R |    |   |   | R |    |
| Sweet flag                  | <i>Acorus calamus</i>                         |    | O |   |   |    |   |   |   |    |
| Sycamore                    | <i>Acer pseudoplatanus</i>                    | LA | A | R | R | O  |   | O |   |    |
| Variegated yellow archangel | <i>Lamiaeum galeobdolon subsp. argentatum</i> |    |   |   |   | R  |   |   |   |    |
| White clover                | <i>Trifolium repens</i>                       | R  |   | O | O | O  | O | O | O |    |
| White dead nettle           | <i>Lamium album</i>                           |    |   |   |   |    |   | R |   |    |
| Wild strawberry             | <i>Fragaria vesca</i>                         |    |   |   |   |    | R |   |   |    |
| Willow sp.                  | <i>Salix sp.</i>                              |    |   |   |   |    | O | F |   |    |
| Wilson's honeysuckle        | <i>Lonicera nitida</i>                        |    |   |   |   |    |   |   |   | LA |
| Wood avens                  | <i>Geum urbanum</i>                           |    | O |   | F | O  | R | O |   |    |
| Wood forget-me-not          | <i>Myosotis sylvatica</i>                     |    |   |   | R |    |   |   |   |    |
| Wood sage                   | <i>Teucrium scorodonia</i>                    |    |   |   |   | R  |   |   |   | R  |
| Wood speedwell              | <i>Veronica montana</i>                       |    |   |   | R |    |   |   |   |    |



|               |                               |   |   |   |   |   |   |   |   |  |
|---------------|-------------------------------|---|---|---|---|---|---|---|---|--|
| Wood spurge   | <i>Euphorbia amygdaloides</i> |   |   |   | R | R |   |   |   |  |
| Yarrow        | <i>Achillea millefolium</i>   | O |   | O | F | R |   | O | F |  |
| Yew           | <i>Taxus baccata</i>          |   | O |   | R |   | R |   |   |  |
| Yorkshire fog | <i>Holcus lanatus</i>         | R |   |   | O | R |   |   |   |  |

**Ad-hoc species sightings:**

| Group                               | Species           | Scientific Name             |
|-------------------------------------|-------------------|-----------------------------|
| Lepidoptera (butterflies)           | Small copper      | <i>Lycaena phlaeas</i>      |
|                                     | Speckled wood     | <i>Pararge aegeria</i>      |
| Hymenoptera (bumblebees)            | Carder bee        | <i>Bombus pascuorum</i>     |
| Odonata (Dragonflies & damselflies) | Emperor dragonfly | <i>Anax imperator</i>       |
| Diptera (flies)                     | Cranefly          |                             |
|                                     | Hoverfly          |                             |
| Birds                               | Great tit         | <i>Parus major</i>          |
|                                     | Magpie            | <i>Pica pica</i>            |
|                                     | Robin             | <i>Erithacus rubecula</i>   |
|                                     | Wood pigeon       | <i>Columba palumbus</i>     |
| Mammals                             | Grey squirrel     | <i>Sciurus carolinensis</i> |

Appendix 6:  
Bog garden creation

## Appendix 6: Bog garden creation

Bog gardens are excellent habitats for wildlife, such as for young frogs, due to the dense, damp vegetation they support. They can be stand-alone features, or adjacent to a pond to create an extensive area of suitable wildlife habitat.

Bog gardens need to be permanently damp, so should be created in a naturally wet area or where run-off can collect e.g. in a natural depression. If the area for creation is not naturally wet/damp, this can be achieved by using a leaky hose pipe buried into the soil that is blocked at one end and connected to a tap or water butt (further details can be found on the RHS link below). Ideally bog gardens should be located in an area that receives full sunlight for at least part of the day.

### Method

- Dig a hole approximately 30 to 45cm deep and to the desired width and length;
- Line the hole with butyl pond liner or polythene sheeting. The liner should extend at least 30cm beyond the edge of the hole to allow for settling;
- Weigh down the edge of the liner with bricks/large stones;
- Pierce the liner at 1 metre intervals using a garden fork. This means water will be retained but some drainage can occur to stop water pooling;
- Line the hole with gravel;
- Refill the newly lined hole with the extracted soil.

### Native plants with attractive flowers:

- Bugle (*Ajuga reptans*)
- Common skullcap (*Scutellaria Galericulata*)
- Cowslip (*Primula veris*)
- Lady's smock (*Cardamine pratensis*)
- Lesser spearwort (*Ranunculus flammula*)
- Marsh woundwort (*Stachys palustris*)
- Meadowsweet (*Filipendula ulmaria*)
- Purple loosestrife (*Lythrum salicaria*)
- Ragged robin (*Lychnis flos-cuculi*)

The list above has avoided large, vigorous growing species, as unless the bog garden is very large they will dominate and out-compete other species.

### Sources of information:

- Natural England – Garden ponds and boggy areas: havens for wildlife  
[http://www.wlgf.org/ne27garden\\_ponds\[1\].pdf](http://www.wlgf.org/ne27garden_ponds[1].pdf)
- Royal Horticultural Society – Bog gardens  
<https://www.rhs.org.uk/advice/profile?PID=356#section-3>

**Appendix 7:**  
Natural England Technical Information Note TIN064: Sward Enhancement

## **GLOSSARY**

## Glossary of Biodiversity Terms and Acronyms

**Biodiversity** – the diversity of life in an area.

**Biodiversity Opportunity Area (BOA)** – regional priority areas of opportunity for restoration and creation of Biodiversity Action Plan habitats.

**Buffer zone** - a strip that partially or fully encloses an area to protect the inner section from ecological disturbance by outside pressures.

**Corridor** - the principle of connections between wildlife habitats. Closely related to the theory of fragmentation, ecological corridors aim to provide a corridor for migration of all species between suitable habitat areas.

**Ecosystem** - the interactions of animals, plants, fungi, and micro-organisms with each other and the non-living world.

**Ecosystem Services** – the natural resources and processes supplied by the ecosystem.

**Edge-effects** – where much of the biodiversity in small or narrow sites is under the influence of factors from outside the site. Larger blocks of habitat have an inner core which is buffered from these influences.

**Eutrophication** – the enrichment by nutrients of waterbodies leading to algal blooms which disrupt the ecosystem.

**Fragmentation** - the disruption of large areas of habitat into smaller, separate units. Involves both a total loss of habitat area and the isolation of remaining habitat patches, which prevents interaction between some organisms located in the fragments, and renders them effectively separate populations.

**Green Infrastructure** – a term used to describe the accessible ‘multi-functional’ green space that should accompany housing developments for residents’ quality of life. These areas provide potential direct and indirect benefits for biodiversity.

**Habitat** - a place where animals, plants, fungi, and micro-organisms live.

**HLF** – Heritage Lottery Fund

**Improved land** – land that has been improved for the purposes of agricultural production, usually through ploughing, sowing, drainage, and the application of fertilisers.

**Invasive alien species** - species from other countries not naturally found growing in Britain, with a tendency to dominate communities to the detriment of native species.

**Local Biodiversity Action Plan (LBAP)** – plans produced at county, district, parish or similar level to interpret the actions of the UK Biodiversity Action Plan.

**Natural Environment & Rural Communities Act (2006)** – Legislation which places a duty upon local authorities to protect and enhance biodiversity through their activities.

**NIA** - Nature Improvement Area

**Ramsar** – The Convention on Wetlands of International Importance, especially as Waterfowl Habitat, is an international treaty for the conservation and sustainable utilisation of wetlands.

**Ride** - open track-ways cut through woods originally for the extraction of timber. Now important conservation areas for butterflies, other invertebrates and wildflowers growing there due to the increased sunlight along the woodland edge.

**Riparian** – living or growing along the banks of a river.

**Site of Importance for Nature Conservation (SINC)** - A non-statutory designation of sites at the county/district level. Sites are generally assessed by either local authorities or county wildlife trusts, and adopted in local plans. For the criteria used for selecting SINC, see section 2.

**Site of Special Scientific Interest (SSSI)** - an area of land notified under the Wildlife and Countryside Act 1981 as being of special nature conservation interest. The SSSI designation applies in England, Wales and Scotland. Sites are notified by the appropriate country conservation agency, in England this is Natural England.

**Special Area for Conservation (SAC)** - a site designated by the UK Government under EC Directive 92/43 on the conservation of natural habitats and of wild fauna and flora.

**Special Protection Area (SPA)** - a site designated under Article 4 of EC Directive 79/409 on the conservation of wild birds. Together SACs and SPAs form a network of European sites known as Natura 2000.

**Tree Preservation Order (TPO)** – an Order which causes the prohibition of cutting down, topping, lopping or the wilful destruction of trees except with the consent from the Local Authority to ensure the preservation of trees, groups of trees and woodlands. Type “W” refers to TPOs for woodlands.

**UK Biodiversity Action Plan (UK BAP)** - the UK's priorities in biodiversity conservation, formulate a series of focused action plans designed to achieve these objectives.