

# BOROUGH PLAN BACKGROUND PAPER: Biodiversity and Geodiversity

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Nuneaton and Bedworth Borough Council

2015



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# 1. INTRODUCTION

## 1.1 Purpose

This paper sets out relevant international, national, regional, sub-regional and local policies and strategies, as well as providing a synopsis and recommendations of relevant evidence base documents to inform policy development in relation to biodiversity and geodiversity.

## 1.2 What is Biodiversity?

Biodiversity<sup>1</sup> encompasses the whole of the animate world, from invisible micro-organisms and bacteria to whales and from simple aquatic pond life to complex rainforest ecosystems. In short, biodiversity is the totality of genes, species and ecosystems and is an often used term to describe the variety of life on Earth.

Biodiversity gives us the essentials of life: water, oxygen, food, and the raw materials for everyday needs. People could not survive without it and the quality of life is greatly enriched for it. Yet human activity is having a devastating impact on biodiversity across the world.

Ultimately, biodiversity losses will damage the life support systems people rely on and lead to irreversible catastrophic consequences.

Globally, biodiversity is under threat from several areas associated with human activity, including overpopulation, exploitation, genetic modification, climate change and habitat destruction. It is estimated that the world is losing biodiversity at an ever-increasing rate as a result of human activity. In England alone there has been a loss of 492 species since 1800, with many more species and habitats in danger of disappearing, especially at the local level<sup>2</sup>. Intensive farming, pollution, urban development and disturbance are responsible for much of this loss.

Fortunately, in the UK, good planning can prevent or significantly reduce biodiversity loss and provide opportunities to enhance the environment.

## 1.3 What is Geodiversity?

Geology is the study of rocks and fossils in which the evolution of life through billions of years is told. It is of great scientific importance, providing a means of studying and understanding both the history of planet Earth and its processes, as well as exploiting the Earth's natural resources and raw materials to sustain modern lifestyles.

Geodiversity is defined as the natural range (diversity) of geological features (rocks, minerals, fossils, structures), geomorphological features (landforms and processes)

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<sup>1</sup> The United Nations, 2010, [Convention on Biological Diversity](#) defines biodiversity as: "*The variability among living organisms from all sources including terrestrial, marine and other aquatic ecosystems, and the ecological complexes of which they are part; this includes diversity within species, between species and of ecosystems*" (Article 2).

<sup>2</sup> Natural England (2010) Lost Life: England's Lost and Threatened Species.

and soil features that make up the landscape and includes their assemblages, relationships, properties, interpretations and systems<sup>3</sup>. Simply put, it is the link between landscape, people and their activities and the variety of geological phenomena and processes such as volcanism, mountain building, tectonics, glaciations and erosion, that make the landscapes, rocks, fossils and soils that provide the framework for life on Earth<sup>4</sup>.

In Great Britain, the geology is diverse and visually impressive, representing all the major divisions of geological time, illustrating a wide range of rock types, structures, natural processes and landforms.

Closer to home, Warwickshire County has one of the most varied selections of rocks and fossils in the country, dating between the Precambrian (600 million years ago) to the Pleistocene ice age (10,000 years ago). These rocks and fossils show how the County has been shaped by deep seas, shallow tropical seas, river deltas, volcanoes and glaciers. They tell the story of continental drift, plate tectonics, climate change, volcanism, biological extinctions and sweeping evolutionary changes among the region's plant and animal inhabitants<sup>5</sup>.

Evidence of drift deposits reveal unconsolidated sediments dating back several hundred thousand years to the middle part of the Pleistocene period. These deposits are widely distributed throughout the county and include older drift deposits of glacial origin comprised of river gravels, finely bedded clays and tills. The younger drift deposits include deposits of sand and gravel along the modern valley sides<sup>6</sup>.

Locally, the 'solid' bedrock geology of Nuneaton and Bedworth is formed by the Warwickshire Coalfield, partly equating to the Warwickshire plateau. The Warwickshire Coalfield comprises relatively old rocks, running from Warwick in the south, through the centre of Nuneaton and Bedworth, to the Staffordshire border near Tamworth in the north. The surface geology is dominated by Upper Carboniferous mudstones and sandstones, of roughly 300 million years old. A narrow strip of older rocks up to 600 million years old is along the eastern side of the coalfield from Bedworth to near Mancetter, known as the Nuneaton Inlier. The surface geology includes Precambrian volcanic rocks, Cambrian sandstones and shales of Ordovician intrusive igneous rocks.

On the northeast edge of the Borough is lowland terrain, known as Triassic Lowlands. The surface geology of this area is dominated by sedimentary rocks of Triassic age—characterised by sandstones overlain by considerable thicknesses of red mudstone. Triassic sandstones also occur patchily on the margins of the coalfield. These are roughly 200 to 250 million years old<sup>7</sup>.

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<sup>3</sup> Gray, M. (2004). *Geodiversity: Valuing and Conserving Abiotic Nature*. Wiley, Chichester.

<sup>4</sup> Warwickshire Geological Conservation Group (2012) Warwickshire Geodiversity Action Plan

<sup>5</sup> Radley D Jonathan (2009) The Geological Evolution of Warwickshire, *Mercian Geologist* 17 (2): 75 – 85.

<sup>6</sup> Wallace, B (June 2010) Warwickshire Historic Landscape Characterisation Report. Warwickshire County Council.

<sup>7</sup> Wallace, B (June 2010) Warwickshire Historic Landscape Characterisation Report. Warwickshire County Council.

## **2. DESIGNATIONS RELEVANT TO NUNEATON AND BEDWORTH**

Species and habitats are afforded varying degrees of protection relating to their conservation status, rarity and wider ecological value. Those species and habitats of greatest conservation concern are protected through legislation at European and/or national level. The UK and Local Biodiversity Action Plans list 'Priority' Species and Habitats which are noted to be endangered or at risk. These are also listed as Species and Habitats of Principal Importance in England under the NERC Act. Furthermore, in any local area, beyond designated sites, there is also a network of wildlife and geological sites identified as being of value to the local area.

This section sets out the relevant designations for Nuneaton and Bedworth. It lists the relevant designated sites. Appendix 1 gives full details of the designation. There are no Marine Protected Areas, National Nature Reserves, RAMSAR Sites or Special Protection Areas in the Borough.

### **2.1 Natura 2000 Site Network (N2k)**

The EU Habitats Directive makes provision for a network of sites protected across the European Union. This network is referred to as Natura 2000 (N2K) and includes Special Areas of Conservation and Special Protection Areas.

These sites enjoy the highest level of statutory and government policy protection to maintain and restore any nature conservation interest. Specific and stringent tests within the Habitats Regulations 1994 ensure that harmful development will only be approved if there are no alternative solutions, and that there is overriding public interest (which case law defines as being as national interest) for the use, provided that the overall coherence of the network of international sites is maintained.

### **2.2 Special Areas of Conservation (SACs)**

SACs are areas given special protection under the European Union's Habitats Directive. They provide increased protection to a variety of wild animals, plants and habitats. Nuneaton and Bedworth has one SAC at Ensor's Pool (see Appendix 1a).

### **2.3 Site of Special Scientific Interest (SSSI)**

SSSIs are the very best examples of wildlife habitats, geological features and landforms in the UK and are protected by law under the Wildlife and Countryside Act 1981, as amended. The primary statutory mechanism for protecting nationally important geological sites is through the designation of a SSSI. Nuneaton and Bedworth has two SSSIs at Ensor's Pool and Griff Quarry (see Appendix 1b).

### **2.4 Local Nature Reserves (LNRs)**

LNRs contain wildlife or geological features that are of interest locally and provide wildlife and geological educational opportunities. LNRs are a statutory designation made under Section 21 of the National Parks and Access to the Countryside Act 1949, and amended by Schedule 11 of the Natural Environment and Rural

Communities Act 2006. There are three LNRs, at Ensor's Pool, Bedworth Sloughs and Galley Common, in Nuneaton and Bedworth, totalling 24.77ha (see Appendix 1c). The amount of LNRs in the Borough contrasts to Natural England's recommendation of 1ha of LNR for every 1000 population, which would require the Borough to have approximately 125ha of land designated as a LNR.

## **2.5 Local Geological Sites (LGSs)**

LGSs are non-statutory areas but are of importance locally and underpin and complement SSSIs. The sites are selected by voluntary local groups according to the nationally agreed criteria:

- The value of a site for educational purposes;
- The value of a site for study by Earth scientists;
- The historical and aesthetic value of a site from an Earth science perspective.

The existing geology of the local area has been around as long as 600 million years and has been subjugated to a wide range of natural processes, such as erosion from water and wind, as well as volcanism. Nonetheless, Natural England<sup>8</sup> considers that one of the biggest threats to geological sites is the loss of geological exposure through burial under coastal protection schemes, landfill or other developments, such as housing. Unless deflected or managed, this will result in serious loss or damage to some of the most important geological sites.

Nuneaton and Bedworth currently has eight Local Geological Sites (see Appendix 1d).

## **2.6 Local Wildlife Sites (LWSs)**

LWSs are non-statutory areas of local importance for wildlife conservation that complement international and nationally designated wildlife sites. They support both locally and nationally threatened wildlife, and many sites contain habitats and species that are priorities under the county or UK Biodiversity Action Plans.

Sites are surveyed each year by the Habitat Biodiversity Audit for their wildlife value and are later taken before a panel to determine whether or not they meet the criteria for LWS designation. At the time the Local Plan 2006 was adopted there were five LWSs identified. There are now approximately 37 LWSs (see Appendix 1e) in the Borough and this number likely to continue to increase with time.

Whilst local sites may not be considered the best habitats, they nevertheless contribute significantly towards the critical mass necessary to support a healthy and secure 'natural' environment.

## **2.7 Priority Species and Priority Habitats**

Priority species and habitats are those identified as being the most threatened and requiring action under the UK Biodiversity Action Plan (1994) in response to the United Nations Convention on Biological Diversity. Nuneaton and Bedworth has

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<sup>8</sup> Geological Conservation: A Good Practice Guide.

several species and habitats that are of a priority status. The list of these species and habitats is included in Appendix 1f.

Some individual wildlife species receive their own statutory protection under a range of legislation. Specific policies in respect of these species should not repeat legislation and therefore should not be included in local development documents. Other species, on the other hand, have been identified as requiring conservation action as species of principal importance for the conservation of biodiversity in England (as listed under section 74 of the Countryside and Rights of Way Act 2000 and Section 41 of the NERC Act 2006). Policies in local development documents should establish measures to protect the habitats of these species from further decline.

## **2.8 Ancient Woodland**

In England, land that has been continuously wooded since 1600 is considered to be ancient woodland. The date marks the beginning of reasonably accurate historical information on local land use, often in the form of estate maps. Notwithstanding, there is evidence of woodlands that are considerably older, as a number of woodlands are documented in the Domesday Book.

There are two types of ancient woodland:

- *Ancient and Semi-natural Woodland* (ASNW) – this is apparently of natural origin. This does not imply that the wood has remained untouched by human hand. In all probability it will have been managed over the centuries by coppicing and may even have been clear-felled at certain times but has since been restored by natural regeneration, not replanting.
- *Ancient replanted woodland* – although continuously wooded these areas have had the original tree cover replaced with newer plantings, usually within the last century and often with conifers, unlike ASNW.

Whilst much of Britain was cleared of native woodland during prehistory, many remnants have been maintained as a valuable resource for hundreds of years. Nowadays, ancient woods and trees are the jewel in the woodland crown. They are full of cultural heritage and are the richest sites for wildlife. Some ancient woodland, for example, formed parts of medieval royal forests, whilst others have a long associated history with industries such as iron, pottery production and ship building. In relation to biodiversity ancient woodlands and ancient trees support a huge range of wildlife—such as bluebells, primroses and wood anemones—many of which require stable conditions. They also provide the right conditions to support more threatened species than any other UK habitat.

Within Nuneaton and Bedworth there are 14 areas of Ancient Woodland (see Appendix 1g)

## **2.9 Veteran Trees**

The term veteran tree is not precisely defined, as various criteria may determine the veteran status of an individual tree when compared to others. For example, a tree may be regarded as a veteran due to:



- its great age relative to others of the same species;
- existing in an ancient stage of life;
- its biological, aesthetic or cultural interest.

Size alone is a poor indicator of veteran status, as different species may have different rates of growth or natural life spans. For this reason, the species, relative ages, management practice, aesthetic, cultural and biological importance should all be taken into account when surveying or assessing potential veteran trees.

Furthermore, trees that contribute to the Borough's ecology, culture and heritage should also be considered for protection under a Tree Preservation Order.

### **3. INTERNATIONAL LEGISLATION**

#### **3.1 The Convention on the Conservation of European Wildlife and Natural Habitats (the Bern Convention)**

The Convention was adopted in Bern, Switzerland in 1979, and came into force in 1982. The principal aims of the Convention are to ensure conservation and protection of specific wild plants and animal species and their natural habitats, to increase cooperation between contracting parties and to regulate the exploitation of those species (including migratory species).

To implement the Bern Convention in Europe, the European Community adopted Council Directive 79/409/EEC on the Conservation of Wild Birds (the EC Birds Directive) in 1979, and Council Directive 92/43/EEC on the Conservation of Natural Habitats and of Wild Fauna and Flora (the EC Habitats Directive) in 1992. Among other details, the Directives provide for the establishment of a European network of protected areas (Natura 2000), and tackle the continuing losses of European biodiversity on land, the coast and in the sea, from human activities.

#### **3.2 Conservation (Natural Habitats, etc) Regulations 1994 (regulation 38).**

This implements EC Directive 92/43/EEC, known as The Habitats Directive. The Regulations make it an offence to deliberately kill, capture, or disturb a European Protected Species, or to damage or destroy the breeding site or resting place of such an animal. European Protected Species are defined in English legislation as species listed in Annex IV to the Habitats Directive whose natural range includes any area in Great Britain.

In relation to Nuneaton and Bedworth several bat species<sup>9</sup> and the Great Crested Newt, are all identified as priority species in Warwickshire, are protected under the Regulations.

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<sup>9</sup> Conservation (Natural Habitats, etc) Regulations 1994 (regulation 38), Barbastrelle, Brandt's bat, Brown long-eared bat, Common pipistrelle, Daubenton's bat, leisler's bat, Lesser horseshoe bat, Natterer's bat, Noctule, Serotine and Soprano pipistrelle.

### **3.3 Directive 2009/147/EC (the Birds Directive, as amended)**

The Directive provides a framework for the conservation and management of, and human interactions with, wild birds in Europe. It sets broad objectives for a wide range of activities, although the precise legal mechanisms for their achievement are at the discretion of each Member State.

In England, the provisions of the Birds Directive are implemented through the Wildlife & Countryside Act 1981 (as amended), the Conservation (Natural Habitats, & c.) Regulations 2010 (as amended); the Offshore Marine Conservation (Natural Habitats & c.) Regulations 2007 as well as other legislation related to the uses of land and sea.

In relation to Nuneaton and Bedworth, the Song Thrush is protected under Annex II of the Directive.

### **3.4 Directive 92/43/EEC (the Habitats Directive)**

The Habitats Directive is the means by which the European Union meets its obligations under the Bern Convention. The main aim of the Habitats Directive is to:

- promote the maintenance of biodiversity by requiring Member States to take measures;
- maintain or restore natural habitats and wild species listed on the Annexes to the Directive at a favourable conservation status;
- introduce robust protection for those habitats and species of European importance under a network of Special Protected Areas and Special Areas of Conservation, referred to as Natura 2000 sites.

The Council, therefore, is obligated to assess the land-use plans it produces, either alone or in combination with other projects and plans, to determine any likely significant effect on the Natura 2000 sites. *Likely* can be referred as probably and *significant* as not trivial or inconsequential.

In relation to Nuneaton and Bedworth, Annex II of the Directive includes White Clawed Crayfish, Great Crested Newts and the Lesser horseshoe, Greater horseshoe, Bechstein's and Barbastelle bats. Annex IV provides protection for all UK bats and the Great Crested Newt, whilst Annex V protects White Clawed Crayfish.

## **4. NATIONAL LEGISLATION, POLICY AND GUIDANCE**

### **4.1 Natural Environment and Rural Communities (NERC) Act 2006**

The NERC Act provides the framework for considering biodiversity. It ensures that all local authorities and other public authorities in England and Wales have a duty to promote and enhance biodiversity in all of their functions, and aims to raise the profile of biodiversity and to make sure that it is considered in all local authority decision and policies.

Of particular importance is Section 40, which states that "Every public authority must, in exercising its functions, have regard, so far as is consistent with the proper exercise of those functions, to the purpose of conserving biodiversity." Conserving biodiversity is defined as restoring or enhancing a population or habitat.

Furthermore, Section 41 of the Act states that the Secretary of State must publish a list of species and habitats of principle importance for the purpose of conserving biodiversity and that list must be kept under review. The most up to date list is provided in Appendices 3 and 4 of this report.

The Section 41 list is used to guide decision-makers such as public bodies, including local authorities, in implementing their duty under section 40 of the Act.

Amongst Nuneaton and Bedworth's priority species the list contains all bat species in Warwickshire, the Great Crested Newt, the Song Thrush, Water Vole and the White Clawed Crayfish.

#### **4.2 Wildlife and Countryside Act 1981, as amended**

The Wildlife and Countryside Act 1981 (W&CA) was implemented to comply with the Directive 2009/147/EC on the conservation of wild birds (previously EC79/409/EEC). Although other significant acts have been passed since the W&CA was introduced, it is still the major legal instrument for wildlife protection in Britain. The W&CA gives protection to native species (especially those at threat), controls the release of non-native species, enhances the protection of SSSIs and builds upon the rights of way rules in the National Parks and Access to the Countryside Act 1949. The W&CA is split into 4 parts covering 74 sections, and includes 17 schedules.

The W&CA has laid the foundation for later legislation to build upon and the compulsory five year review of schedules 5 and 8 make it dynamic in terms of the species which are protected by it. As such, there have been a number of significant amendments to the Act.

In relation to Nuneaton and Bedworth, all Bats and the Water Vole are protected under Schedule 5 of the W&CA, whilst the Song Thrush has limited protected under Schedule 3 of the Act.

#### **4.3 The Hedgerow Regulations 1997**

Hedgerows are often species rich. They may contain species which have their own species protection legislation or are protected under the Wildlife and Countryside Act 1981, as amended, such as badgers and nesting birds. The importance of hedgerows is reflected in the Regulations, which make it unlawful to remove a rural hedgerow without planning permission.

The Regulations specify that a hedgerow is deemed 'important' if it or the hedgerow of which it is a stretch:

- a has existed for 30 years or more, and,
- b satisfies at least one of the criteria in Part II of Schedule 1.

The criteria listed in Part II of Schedule 1 consist of the following:

- i Historic hedgerow existing before 1850.
- ii The hedgerow incorporates an archaeological feature.
- iii The hedgerow contains at least seven woody species, on average, in a 30m length or six woody species plus three associated features (these features include a ditch, bank, three woodland species on the outermost metre of the hedgerow, etc), on average, in a 30m length or at least five woody species and at least four associated features, on average, in a 30m length.

#### **4.4 The Natural Choice: Securing the Value of Nature 2011**

This Natural Environment White Paper outlines the Government's vision for the natural environment and practical action to deliver that ambition. It was the first White Paper on the natural environment for 20 years, and is directly linked to the recently published National Ecosystem Assessment, which showed the strong economic arguments for safeguarding and enhancing the natural environment. The white paper also takes forward recommendations from Professor Sir John Lawton's independent review of England's wildlife sites and ecological network, *Making Space for Nature*.

The Government proposes an approach based on five components of the ecological network to be implemented at a landscape scale:

- Core areas of high nature conservation value—these contain rare or important habitats or ecosystem services, such as protected wildlife sites and other semi-natural areas of high ecological quality
- Corridors and stepping stones—these enable species to move between core areas and are made up of a number of small sites (stepping stones) or a mosaic of habitats that allow species to move through
- Restoration areas—these are areas of opportunity where biodiversity of GI strategies can be implemented to create high-value areas so that ecological functions and wildlife can be restored
- buffer zones—these can be used to protect core areas of high nature conservation, restoration areas and stepping stones
- Sustainable use areas—these areas focus on the sustainable use of natural resources and appropriate economic activities. Together with the maintenance of ecosystem services<sup>10</sup>, they soften the wider countryside, making it more permeable and less hostile to wildlife

The White Paper recognises that the natural environment is sometimes taken for granted and undervalued, but that people cannot flourish without the benefits and services it provides, asserting that: *“A healthy, properly functioning natural environment is the foundation of sustained economic growth, prospering communities and personal wellbeing.”*

The White Paper aims to protect and improve the natural environment, reconnect people with nature and grow a green economy sustainably. The White Paper also

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<sup>10</sup> Ecosystem services refers to services provided by the natural environment directly, such as food, timber and energy, and indirectly, such as climate regulation, water purification and the productivity of soil.

introduces Local Nature Partnerships, Biodiversity Offsetting and asserts its commitment to a low-carbon future in order to protect the environment from the adverse impacts associated with carbon emissions and climate change.

#### **4.4.1 Warwickshire, Coventry and Solihull Local Nature Partnership**

The Warwickshire, Coventry and Solihull Local Nature Partnership (LNP) was approved in July 2012. The LNP is encouraged to work closely with Local Enterprise Partnerships (LEPs) and Health and Wellbeing Boards to, among other things, contribute to local plans and decision-making. The NPPF emphasises (in para. 180) the importance collaborative working in relation to strategic planning priorities in order to achieve sustainable development.

Specifically, the LNP aims to:

- Drive positive change in the local natural environment, taking a strategic view of the challenges and opportunities involved,
- Contribute to achieving the Government's national environmental objectives locally,
- Become local champions, influencing decision-making relating to the natural environment and its value to social and economic outcomes.

#### **4.4.2 Biodiversity Offsetting**

Biodiversity offsets are conservation activities designed to deliver biodiversity benefits and compensation in a measurable way. Biodiversity offsets are distinguished from other forms of ecological compensation by the requirement for measurable outcomes: the losses resulting from the impact of the development and the gains achieved through an offset are measured in the same way.

Department of Environment Food and Rural Affairs (Defra), Natural England and local authorities initiated six pilot areas to test the biodiversity offsetting approach. Nuneaton and Bedworth Borough Council was one of the pilot areas, included as part of the, Warwickshire, Coventry and Solihull pilot area. The pilot ran for two years from 1st April 2012, and was led by Warwickshire County Council (WCC).

Developers in pilot areas were required to provide compensation for biodiversity loss that was linked to a planning policy or they could do so voluntarily. The benefit for the developer was that:

- It simplified the discussion about how much compensation is needed;
- Relevant information was transparent and available to all from the start of the process;
- It allowed the developer to pay someone else to deliver the offset for them, and to pass on the responsibility for managing that compensation with no attachments.

The pilot is now over. Nevertheless, Defra is considering rolling out the scheme nationally. Regardless biodiversity offsetting does not require its own legislation to be implemented and it is endorsed by many countries internationally. Furthermore, WCC Ecological Services continue to use it to support the NPPF requirements of biodiversity no net loss.

Feedback from the pilot areas found biodiversity offsetting to be a very useful tool to increase the standards of onsite mitigation packages, as well as enable, where necessary, appropriate compensation offsite through planning obligations. In addition, the Environment Bank<sup>11</sup> is now working with an increasing number of authorities nationally who are implementing or investigating biodiversity offsetting in their areas.

Defra believes that a consistent framework for biodiversity offsetting across England has the potential to improve the implementation of planning policy requirements for biodiversity compensation aligned with an economic market value of compensation.

#### 4.4.3 Mitigation Hierarchy

Biodiversity offsets come at the end of the “mitigation hierarchy”. This means that they are only considered when the potential to avoid any damage, and mitigate any damage, has been fully considered. The mitigation hierarchy can be described in the context of biodiversity offsetting as:

**Avoid**—ensure that negative impacts do not occur as a result of planning decisions by, for example, locating development away from areas of ecological interest.

**Mitigate**—reduce negative impacts, for example, through changes to project design, construction methods or the timing of work; enhance or restore other interests or areas on a site so its overall ecological value is retained or incorporate new biodiversity areas within the development proposals.

**Compensate**—make up for the loss of, or permanent damage to, biodiversity. Where some harm to biodiversity is reduced through mitigation, compensation will represent the residual harm which cannot or may not be entirely mitigated.

The reasons for biodiversity loss are varied, but the UK National Ecosystem Assessment identifies land-use change, including development, as one of the major impacts on biodiversity in the UK. Notwithstanding, development is needed so that communities can grow and expand in a way which suits them, and to provide jobs and essential services, but development also has an obligation to contribute to the overall objective to halt biodiversity loss.

#### 4.5 National Planning Policy Framework (NPPF)

The requirements of the NPPF are set out below alongside the policy approach that the Council has taken towards meeting these requirements.

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<sup>11</sup> The Environment Bank links developers with land managers. The Environment Bank applies a system of biodiversity accounting against the impacts of development and generate investment in wildlife conservation schemes via ‘habitat banking’ and ‘biodiversity offsetting’. The Environment Bank work with landowners, developers, planning authorities and conservationists to better account for environmental impacts, prevent biodiversity loss and encourage development to become more environmentally sustainable.

Relevant requirement	NPPF	NPPF sub requirement	Relationship with policy
Core Planning Principle 7: contribute to conserving and enhancing the natural environment and reducing pollution. Allocations of land for development should prefer land of lesser environmental value, where consistent with other policies in this Framework;			This is primarily achieved by contributions from all the Environment and Climate Change policies. In terms of allocating development sites wildlife, habitats and landscape quality were key aspects that were taken into consideration.
Paragraph 109 – The planning system should contribute to and enhance the natural and local environment by:	<ul style="list-style-type: none"> <li>protecting and enhancing geological conservation interests;</li> </ul>	The Biodiversity and Geodiversity policy conserves and where necessary enhances geological interests.	
	<ul style="list-style-type: none"> <li>recognising the wider benefits of ecosystem services;</li> </ul>	The Biodiversity and Geodiversity policy considers the importance of ecosystem services.	
	<ul style="list-style-type: none"> <li>minimising impacts on biodiversity and providing net gains in biodiversity where possible, contributing to the Government’s commitment to halt the overall decline in biodiversity, including by establishing coherent ecological networks that are more resilient to current and future pressures;</li> </ul>	The Biodiversity and Geodiversity policy includes biodiversity offsetting and a requirement that measures must be in place to ensure that species can positively respond to climate change and become resilient to future pressures.	
Paragraph 113: Local planning authorities should set criteria based policies against which proposals for any development on or affecting protected wildlife or geodiversity sites or landscape areas will be judged. Distinctions should be made between the hierarchy of international, national and locally		The Biodiversity and Geodiversity policy identifies what type of nature conservation sites will contribute to the Borough’s ‘Ecological Network’. It recognises their importance in the hierarchy of international, national and local status.	

Relevant requirement	NPPF	NPPF sub requirement	Relationship with policy
designated sites, so that protection is commensurate with their status and gives appropriate weight to their importance and the contribution that they make to wider ecological networks.			However, the number of international and nationally designated sites is dwarfed by the number of lower hierarchal sites. The policy, therefore, gives local sites significant protection due to the overall contribution they make to the network of habitats, without which interconnected and more widespread networks would not exist.
Paragraph 114: Local planning authorities should set out a strategic approach in their Local Plans, planning positively for the creation, protection, enhancement and management of networks of biodiversity and green infrastructure;			<p>The Biodiversity and Geodiversity policy sets out what is included in the Ecological Network for the Borough and explains how such sites will be protected and enhanced to halt the decline in biodiversity and deliver biodiversity net gains.</p> <p>The Green Infrastructure policy sets out the priorities for creating, protecting, enhancing and managing green infrastructure including biodiversity habitats.</p>
Paragraph 117 – To minimise impacts on biodiversity and geodiversity, planning policies should:	<ul style="list-style-type: none"> <li>plan for biodiversity at a landscape-scale across local authority boundaries.</li> </ul>		The Biodiversity and Geodiversity policy draws on evidence collated at a sub-regional scale. For example, through the surveys of the Coventry, Warwickshire and Solihull Habitat Biodiversity Audit Partnership and from the the Sub-regional Green Infrastructure Strategy. These recognise the need link habitats regardless of local government boundaries via green/



Relevant requirement	NPPF	NPPF sub requirement	Relationship with policy
			wildlife corridors and stepping stones to ensure a joined up approach at a landscape scale.
	<ul style="list-style-type: none"> <li>identify and map components of the local ecological networks, including the hierarchy of international, national and locally designated sites of importance for biodiversity, wildlife corridors and stepping stones that connect them and areas identified by local partnerships for habitat restoration or creation.</li> </ul>	<p>The Biodiversity and Geodiversity policy is based on evidence from the surveys, data and mapping of the Coventry, Warwickshire and Solihull Habitat Biodiversity Audit Partnership.</p> <p>The Ecology and Geodiversity Assessment identifies ecological or geological features that will need to be taken into consideration when developing and designing the site allocations for residential and commercial.</p>	
	<ul style="list-style-type: none"> <li>promote the preservation, restoration and re-creation of priority habitats, ecological networks and the protection and recovery of priority species populations, linked to national and local targets, and identify suitable indicators for monitoring biodiversity in the plan.</li> </ul>	<p>The Biodiversity and Geodiversity policy includes priority habitats as part of the hierarchy of the ecological network. The policy also aims to ensure biodiversity net gains, which will help the recovery of priority species.</p>	
	<ul style="list-style-type: none"> <li>aim to prevent harm to geological conservation interests.</li> </ul>	<p>The Biodiversity and Geodiversity policy conserves and where necessary enhances geological interests.</p>	

#### **4.6 Local Sites: Guidance on their Identification, Selection and Management**

This DEFRA guidance,<sup>12</sup> states that whilst the core principle of the guidance is that Local Sites may provide additional benefits beyond biological or geological value. Local Sites “. . . also contain features of *substantive* nature conservation value and that the purpose of selection is to provide recognition of this value and to help conserve those features by affording the sites an appropriate degree of protection”. Therefore, “the overall objective of the guidance is to create a more consistent sense of the value and importance of Local Sites by securing broader awareness of this and support for their protection”.

The guidance recognises that designation of Local Nature Reserves (LNR) and Local Sites are grounded on similar, yet differing principles. LNRs, for example are designated to provide opportunities for related study and research into the site’s flora, fauna, geological or physiographical features. Whereas Local Sites are designated not so much for study and research but for their substantive nature conservation interest. However, where a local authority recognises special value in a Local Site for its ecological or geological features or its potential role in providing for education, research and possibly, quiet enjoyment relating to its natural features, it should consider the scope for declaring it as an LNR.

#### **4.7 Keepers of Time: A Statement of Policy for England’s Ancient Woodland**

This DEFRA and Forestry Commission’s policy statement sets out a vision to sustainably protect and manage ancient woodlands for the betterment of society, the economy and the environment. Driving this policy statement is the significant loss of ancient woodland in the 20<sup>th</sup> Century due to intense agricultural practices, conversion to conifer plantations and land use development. It is estimated that ancient woodlands now cover only 2.6% of England’s land area. In Nuneaton and Bedworth it is a lowly 1.6% of the land area<sup>13</sup>.

#### **4.8 Geological Conservation: A Guide to Good Practice**

This guide states that it is important to appreciate that the objective of geological conservation is to conserve rather than preserve. Thus, emphasis is placed on the management of a particular feature to retain a particular ‘quality’ by managing change and raising awareness, rather than on preservation of the feature with no change at all. Otherwise the ever increasing influence of human activity will result in geological sites lost through burial or removal, or damaged through disruption of natural processes.

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<sup>12</sup> Department of the Environment, Food and Rural Affairs, Local Sites: Guidance on their Identification, Selection and Management (2006), available at <http://archive.defra.gov.uk/rural/documents/protected/localsites.pdf>

<sup>13</sup> Provided by the Woodland Trust as part of the Preferred Options Consultation: Ancient Woodland Inventory, Natural England 15/02/2007 and calculated by NBBC Officers. 130.798ha of ancient woodland divided by 7889ha of total land area multiplied by 100 = 1.6% of ancient woodland.

## **5. SUB-REGIONAL STRATEGIES**

### **5.1 Warwickshire, Solihull and Coventry Local Biodiversity Action Plan (LBAP)**

The LBAP provides a local response to the UK Government's National Action Plans for threatened habitats and species. The LBAP contributes to national targets where relevant to Warwickshire, Coventry and Solihull and also sets local targets. The LBAP is also important in identifying priority species and habitats in the Borough.

The LBAP contains 26 Species Action Plans and 24 Habitat Action Plans. The plans have clear measurable targets and assemble the local people and local organisations that are ideally placed to deliver the necessary action.

### **5.2 The Warwickshire Geodiversity Action Plan**

The Warwickshire Geodiversity Action Plan is being prepared for Warwickshire to promote and conserve the geodiversity and geological heritage of the greater Warwickshire vice-county<sup>14</sup> area. The Action Plan will increase awareness, understanding and involvement in geo-conservation and provide guidance to planners, landowners and local communities on the benefits and advantages of good conservation practice. The Action Plan will increase educational opportunities to promote an appreciation of local geology and landscapes by improving access to places where rocks and fossils can be seen and where interpretation boards, leaflets and guides will be made available to the public.

## **6. LOCAL STRATEGIES**

### **6.1 Nuneaton and Bedworth Borough Council's Corporate Plan 2007 - 2021**

The Corporate Plan sets out how the Council's services and activities will support the Council's Sustainable Community Plan. The most relevant aim to biodiversity and geodiversity is aim 3: "To provide a pleasant environment for those living, working and visiting the Borough". The priorities are:

- to create a greener and cleaner environment;
- to lead in environmental issues addressing climate change and protection of the environment.

### **6.2 Nuneaton and Bedworth Borough Council's Sustainable Community Plan: Shaping Our Future 2007 - 2021**

Nuneaton and Bedworth's Sustainable Community Plan is a blueprint of the Borough's aspirations for the local community between 2007 - 2021. The Sustainable Community Plan sets out a vision and a plan to achieve the vision through working together with public sector agencies, communities, voluntary organisations and

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<sup>14</sup> A vice-county is a geographical division of the [British Isles](#) used for the purposes of biological recording and other scientific data-gathering and provides a stable basis for recording similarly-sized units. Although grid-based reporting has recently grown in popularity, vice-counties remain a standard in the vast majority of ecological surveys, allowing data collected over long periods of time to be compared easily. The vice-counties remain unchanged by subsequent local government reorganisations, allowing historical and modern data to be more accurately compared.

businesses to tackle major issues such as transport, health, education, employment, housing and community safety.

Theme four, environment, is the most pertinent to biodiversity and geodiversity and aims to “Have a high quality environment with increased biodiversity and a sustainable approach to waste and energy”.

### **6.3 Nuneaton and Bedworth Borough Council Environmental Sustainability Strategy 2013 – 2016**

The Environmental Sustainability Strategy (ESS) sets out corporate, cross-cutting and far-reaching commitments to ensure ongoing action is taken to minimise the adverse effects that day-to-day activities have on the natural environment. The ESS sets targets for the Council in respect of the greater influence it needs to have on the wider population of the Borough and indeed the County of Warwickshire.

In relation to biodiversity, the ESS states that it will seek to form a coherent and linked landscape in which wildlife can flourish and ensure appropriate protection and management practices are in place. The Action Plan for biodiversity will monitor the percentage of LWSs and pLWSs detrimentally affected by development.

### **6.4 The Emerging Borough Plan**

In relation to this background paper the vision states that By 2031, Nuneaton and Bedworth Borough will be a place where there are opportunities for sustainable economic growth with diverse job prospects, healthy living and an integrated infrastructure network. Business will want to invest in the Borough as a result of the outcomes of policies in the Plan, which will include creating an attractive environment.

The strategic objectives relevant to this background paper are:

#### **Objective 7**

To ensure that new development enhances and improves the quality and appearance of the existing urban area. In particular:

- a) Important open spaces such as Riversley Park, Miners Welfare Park, Whittleford Park and Community and Local parks are protected and enhanced. Landscape character, historic, geological and natural features such as Arbury Historic Park and Garden, Stockingford Railway Cutting and Ensor’s Pool are protected and enhanced.
- b) Derelict, contaminated and untidy sites are brought back into beneficial use.
- c) Minimise the negative impact of development and make improvements where possible to air quality in Air Quality Management Areas.
- d) Maximise opportunities to use the River Anker, Wem Brook, the Coventry Canal and Ashby Canal as attractive focal points for open space and new

development where there is no negative impact on the green network or the water quality.

e) Infill development positively responds to local character and does not result in town cramming.

f) High quality and sustainable design and construction in line with design standards.

## Objective 8

To address climate change and encourage sustainability in all new development. In particular:

a) Avoid where possible sites that are at risk of flooding now or in the future.

b) Utilising appropriate sustainable urban drainage systems for flood or surface water attenuation and using water sustainably.

c) Protect and enhance the Borough's ecological network, in particular priority habitats and species and minimising impacts on biodiversity.

d) Maximise energy efficiency and the use of renewable energy, particularly those with greatest potential in the Borough. For example, combined heat and power district energy, biomass energy, ground source heat pumps, solar photovoltaics and solar thermal, along with any future renewable or low carbon technology that may become more suitable for the Borough during the plan period.

e) Ensure development makes links to cycling and walking networks to encourage green travel.

## 7. EVIDENCE BASE

### 6.5 Habitat Biodiversity Audit and Wildlife Sites Project for Warwickshire, Coventry & Solihull

This project provides accurate, up-to-date and readily accessible ecological data to all the project partners and involves several stages:

- 1 Undertaking a detailed Phase 1 survey of the study area and transfer all data onto GIS. The survey identifies potential Local Wildlife Sites (pLWS).
- 2 Undertaking detailed habitat assessments via the Wildlife Sites Project and transfer potential wildlife sites onto GIS. Site by site assessments determine the ecological value of the pLWSs, with the aim of ensuring the best sites of biodiversity value that are not legally protected become designated as Local Wildlife Sites (LWSs).

- 3 Providing the basis for local biodiversity action plans and a mechanism for setting targets and to monitor implementation.
- 4 Developing local community access to data sets.
- 5 Monitoring habitat and land use change and introduce hedgerow survey and photographic assessments of particular features e.g. veteran trees, reserves, wildlife sites

Currently Nuneaton and Bedworth has approximately 37 Local Wildlife Sites and 49 potential Local Wildlife Sites, whilst 2 sites have been deferred, 16 rejected and 7 destroyed.

## **6.6 Ecology and Geodiversity Assessment for Nuneaton and Bedworth Borough Council, 2014, HBA, WWT and WCC.**

The purpose of the Ecology and Geodiversity Assessment (EGA) is to identify ecological or geological features that will need to be taken into consideration within and adjacent to potential residential and commercial sites identified within the Borough Plan.

The report uses the most up to date habitat and species data available for the Borough. This evidence is evaluated using ground breaking methodologies to show habitats of 'value' and features that enable species to move around the Borough. This 'functional' analysis is specifically captured in identifying and interpreting habitat distinctiveness and habitat connectivity.

### **6.6.1 Habitat Distinctiveness**

Habitat distinctiveness is a way to interpret areas of habitat importance or sensitivity and is a useful way to simplify the 57 Phase 1 map categories. The level of distinctiveness also distinguishes between habitats which are most biodiverse and those that are not.

Distinctiveness scoring ranges from:

- 6 – high distinctiveness,
- 4 – moderate distinctiveness
- 2 – low distinctiveness.

High distinctiveness scores equate to areas of highest biodiversity, including all unimproved and semi-improved habitats. High distinctiveness will also incorporate statutory sites, Local Wildlife Sites and the Biodiversity Action Plan (BAP) habitats. The high distinctiveness category for linear habitats includes species-rich hedgerows.

Moderate distinctiveness scores are a mid-way assessment for areas that are either a transition from high to low or vice versa, or are of indeterminate biodiversity; whereas low distinctiveness scores refer to areas of low biodiversity interest.

Distinctiveness scores are an intrinsic requirement for the proposed biodiversity offsetting schemes and will be a requirement for determining the value of habitats.

### **6.6.2 Habitat Connectivity**

For this Study connectivity is calculated by using the Incidence Function Model (IFM). This model measures the distance between suitable habitats using a set dispersal distance for a given species. Six levels of connectivity were used as part of the Study, ranging from no connectivity to high connectivity.

The Study points out that the Distinctiveness and Connectivity maps provide value evidence for promoting any mitigation and compensation for future development. They should be used to advise on layout designs for the development and where “biodiversity offsetting” opportunities exist to promote local and government objectives.

## **8. ISSUES AND OPTIONS & PREFERRED OPTIONS CONSULTATION RESPONSES**

### **8.1 Issues and Options**

Consultation on Nuneaton and Bedworth Borough Council’s Core Strategy Issues and Options took place between 8<sup>th</sup> June and 14<sup>th</sup> August 2009. The document set out key issues for the Borough. Issues ENV2 and ENV3 relate to biodiversity and habitats. ENV2 states that will future growth outside the urban area will potentially impact on sensitive landscapes and biodiversity; whilst ENV3 states that the amount of Local Nature Reserves and accessible woodland is the lowest in Warwickshire

Many of the responses were concerned that concentrating development on brownfield sites could result in significant losses of habitat and species, since there are many instances where such sites are ecologically rich, often more so than in the Green Belt or Areas of Restraint.

In a similar manner, respondents stated that not all land outside the urban area is sensitive to development and therefore development would not necessarily harm the landscape or reduce biodiversity. Still, there was strong feeling that development should not be allowed in sensitive landscape areas where there would be significant risk to species and their habitats.

In order to address issues in relation to whether or not Green Belt or brown-field land supports a greater variety of biodiversity it was pointed out that “The production of [a] Green Infrastructure Strategy will assist in identifying the most environmentally sensitive areas in the borough, which may include both brownfield or greenbelt sites”.

It was also pointed out that the Borough has a shortage of habitats and biodiversity and a significant lack of accessible natural open green space, with the largest areas of habitat located in the west, where it is currently inaccessible. Subsequently, this has resulted in biodiversity limited to areas of overdevelopment or in areas of under managed river and canal corridors. There was a suggestion that restoring or

remediating some of the 100ha of contaminated land could be used for the purpose of increasing wildlife habitats and biodiversity. Furthermore, it was stated that “Successful enhancement of these areas can therefore assist in ensuring that the Borough has a sufficient range of accessible open green spaces, within the deprived localities, to accord with Natural England's Accessible Natural Greenspace Targets”.

## **8.2 Preferred Options**

The Preferred Options Consultation lasted for eight weeks between 5/07/2013 and 30/08/2013. The policy aims to ensure that biodiversity and geodiversity is enhanced, the decline in biodiversity is reversed and net gains are realised, and habitats are all well connected and adapted to climate change.

The Preferred Options consultation raised several issues in relation to Biodiversity and geodiversity. In general, there was good level of support for the policy. Nonetheless there were a number of comments that clearly disagreed with or had some concerns with the policy, stating:

- That biodiversity offsetting should be used as a last resort, where the potential to avoid and mitigate any damage has been fully considered and is unavoidable;
- That any detrimental impacts to biodiversity are offset by initiatives within close proximity of the development;
- That absolute protection is given to ancient trees and veteran trees and that tree preservation orders (TPOs) are recognised as historical, cultural and wildlife monuments;
- That the canal network is referenced as a rich source of biodiversity, and reference to it should be considered under this policy;
- That the penultimate and final bullets under Ecological Network are contrary to NPPF paragraphs 7, 8 and 118, which requires a balance to be undertaken in assessing the three themes of sustainable development in the context of a presumption in favour of sustainable development.

### **8.2.1 Policy Changes as a Result of the Preferred Options Consultation**

As a result of the consultation, several changes to the Biodiversity and Geodiversity Policy. These include:

- Clearly stating that biodiversity offsetting is used as a last resort and that any biodiversity offset is preferably located close to the development;
- Ancient trees, veteran trees and TPOs are included in the policy and will be give due protection;
- Referring to canal corridors in the policy;
- Making changes to make clear what is part of the Ecological Network.



## 9. POLICY JUSTIFICATION

The justification for the Biodiversity and Geodiversity is summarised below.

The greatest threat to biodiversity and geodiversity comes from the surge in human population and development. The rate at which species are becoming extinct globally is unprecedented. In England, it is estimated that close to 500 species have become extinct since the Industrial Revolution.

To prevent further losses, several national and European Acts and legislation aimed at protecting certain species and habitats have criminal consequences through large fines or imprisonment. However, this is still not working and more still needs to be done.

The White Paper 'Securing the Value of Nature' shows that, beyond ethical reasons, there are also economic arguments for safeguarding and enhancing the natural environment, which can serve as the foundation for prospering communities and personal wellbeing. Consequently, it is important that robust planning policies are in place to help reduce the decline in biodiversity and geodiversity. Positive planning, moreover, will help to create new and protect existing habitats and geological sites. The National Planning Policy Framework (NPPF) states that the level of protection of designated sites should be commensurate to their status in the hierarchy of nationally and internationally designated sites. The Biodiversity and Geodiversity Policy sets out sites that are considered to be the most important within the Borough of Nuneaton and Bedworth.

Special Areas of Conservation are designated as such because they provide increased protection to a variety of wild animals, plants and habitats. In Nuneaton and Bedworth, Ensor's Pool is designated a SAC due to its unique population of 50,000 White Clawed Crayfish in an isolated body of water.

Sites of Special Scientific Interest are designated because they represent the very best examples of wildlife habitats, geological features and landforms in the UK. This is the case for both Ensor's Pool and Griff Quarry.

Regardless of the above designations, there are many sites that contain significant ecological value. Sites with high distinctiveness, for example, are listed because they represent areas of highest biodiversity, such as unimproved and semi-improved habitats.

Furthermore, locally designated sites are important because of their number. Moreover, they support locally threatened wildlife and thus underpin and complement higher level designations. They are also important as they provide educational opportunities and represent features of interest to those locally.

Ancient Woodland and ancient trees/veteran trees are more than havens of wildlife. As well as being the richest of biodiversity habitats, they represent cultural heritage, with long associations with medieval royal forests and past industries. Human

population growth and development have reduced ancient woodlands to a mere 2.6% of England's land area. In Nuneaton and Bedworth it is even worse, with ancient woodland covering just 1.6% of the total land area.

Ensuring that wildlife corridors and other linear wildlife routes are protected, enhanced and/or created will allow species greater movement to adjust to the impact of climate change, whether that is the impact on their food source, mating and sleeping patterns, and / or changes in the ambient temperature, amongst other reasons.

Biodiversity offsets deliver biodiversity benefits and compensation aligned with an economic market value and allows for positive planning. The NPPF states that "when determining applications if significant harm resulting from a development cannot be avoided (through locating on an alternative site with less harmful impacts), adequately mitigated, or, as a last resort, compensated for, planning permission should be refused". However, Instead of refusing planning permission biodiversity offsetting provides an alternative solution that can help reverse the decline in biodiversity and deliver biodiversity net gains nearby.

Seven local wildlife sites have been destroyed since 2000 without any restitution. The biodiversity offsetting policy will ensure that any future loss of biodiversity will be replaced at least like for like and will ensure a biodiversity net gain. Indeed, using distinctiveness and connectivity mapping will help developers with the layout designs of the development and identify where biodiversity offsetting opportunities exist to promote local and government objectives.

Geology underpins society's need for natural resources and raw materials, on which people's day-to-day life is reliant, such as oil, gas, water, stone for aggregate and building, and metal ores. Furthermore, geology plays a fundamental role in shaping the landscape and gives an insight to the past. The landscape, for example, is the product of complex and dynamic relationships between the underlying geology and soils, and the natural processes which shape the land and the nature and distribution of habitats.

Furthermore, Warwickshire County has one of the most varied selections of rocks and fossils in the country, dating between the Precambrian (600 million years ago) to the Pleistocene ice age (10,000 years ago). Contained within these rocks are the Earth's evolutionary history, including that of human culture, which provides a valuable source of inspiration and educational benefits, both locally and further afield.

To maintain and increase biodiversity and geodiversity it is vital that the very best of these are protected but also those features/assets that are not given international or national acclaim are able to thrive alongside and support the network of nationally and internationally statutory sites and features.

The policy below reflects the above justification.

### **8.3 Biodiversity and Geodiversity Policy**

#### **General**

Development proposals will ensure ecological networks and services, biodiversity and geological features are conserved, enhanced, restored and, where appropriate, created.

#### **Ecological Network**

Sites considered significant to the ecological network, irreplaceable or providing a substantive contribution to nature conservation will be protected from development, in particular:

- international sites (such as SACs),
- national sites (such as SSSIs),
- the Warwickshire, Coventry and Solihull Local Biodiversity Action Plan priority habitats and species,
- local nature reserves,
- sites with a high distinctiveness score,
- local wildlife sites and local geological sites, and
- ancient/veteran trees and trees with tree preservation orders.

#### **Adapting to Climate Change**

Development proposals will ensure species are able to positively respond to the impacts of climate change by preventing the fragmentation of existing habitats and creating links and habitats where there are gaps to the ecological network of wildlife sites, stepping stones, wildlife and canal corridors, and green spaces, regardless of whether they are of international, national or local importance.

#### **Biodiversity Offsetting**

Biodiversity offsetting will be required as a last resort once all available options to avoid and mitigate the impacts have been explored. Developers will use the Council's preferred Biodiversity Offsetting Metrics to quantify the impact and to calculate an appropriate level of compensation to replace the lost habitat. If the habitat loss cannot be replaced on site, the replacement habitat should be provided in the Borough in the following order:

- a biodiversity strategic location,
- a location adjoining and/or linking a biodiversity strategic location,
- a location that does not contribute to the offsetting strategy.

#### **Geological Diversity**

Development proposals will avoid adversely impacting on sites of geological interest and where appropriate conserve and enhance such features for the enjoyment of residents and for reasons of advancing local geological education.

#### **Ecological Assessment**

Development proposals affecting the ecological network and / or important geological features will be accompanied by a Preliminary Ecological Assessment and / or, where relevant, a geological assessment. Where the assessment indicates an adverse impact, the assessment must set out a mitigation strategy to halt and

reverse the loss of biodiversity and how it will create biodiversity net gains or, where relevant, how it will reduce its geological impact.

Any proposal that directly or indirectly impacts on a highly distinctive ecological site must show that less distinctive ecological sites have been considered first and explain why those sites were not suitable. The assessment must demonstrate that the benefits of the development proposal will outweigh the immediate loss of biodiversity and / or geodiversity before development is permitted. The assessment must also demonstrate that the combination of proposed habitat retention, enhancement and any biodiversity offsetting, results in a net gain in biodiversity.

Any proposal that directly or indirectly impacts on a locally designated site must show that the benefits of the development proposal will outweigh the immediate loss of biodiversity and / or geodiversity before development is permitted.

## **10. DELIVERING AND IMPLEMENTING POLICIES**

### **10.1 Policy Delivery Mechanisms**

The policies will be delivered by:

- Working closely with the Habitat Biodiversity Audit, Natural England, Warwickshire Geological Conservation Group and Warwickshire Wildlife Trust, amongst others, to ensure that the Borough's ecological, geological and landscape assets are conserved, restored and, where necessary, created.
- Delivery of the Green Infrastructure Plan and the Sub-Regional Green Infrastructure Strategy.
- Delivery of the Environment Sustainability Strategy, including the Action for biodiversity to monitor the percentage of Local Wildlife Sites (LWS) and potential LWSs detrimentally affected by development.

### **10.2 Monitoring**

The Council will monitor through its Authority Monitoring Report:

- Losses and gains to habitats and geological sites.
- The number of planning applications given permission on statutory and non-statutory sites.

## APPENDICES

### Appendix 1: Nuneaton and Bedworth's Designated Sites and Priority Habitats & Species

Site Name	Reason for Designation / its importance as a species or habitat
<b>Appendix 1a</b>	
<b>Special Areas of Conservation—European Designation for the population of White Clawed Crayfish (around 50,000)</b>	
Ensor's pool	<p><b>Designated 04/2005</b></p> <p>The conservation objectives for the European interest on the SSSI are:</p> <ul style="list-style-type: none"> <li>• to maintain*, in favourable condition, the habitat for the population of White-clawed crayfish (<i>Austropotamobius pallipes</i>). *Maintenance implies restoration if the feature is not currently in favourable condition.</li> </ul> <p>This 1ha marl pit holds a very large population, estimated at 50,000. Although crayfish plague outbreaks have occurred in the Midlands, this waterbody is isolated from river systems and is a good example of a 'refuge' site in an important part of the species' former range.</p>
<b>Appendix 1b</b>	
<b>Sites of Special Scientific Interest</b>	
Ensor's Pool	<p><b>Notified 31/01/1995</b></p> <p>Ensor's Pool is about 220 metres long, 50 metres wide with an average depth of eight metres and is fed by groundwater. The pool overlies Etruria Marl which was extracted for brick making earlier this century.</p> <p>Ensor's Pool holds a very large and healthy population of native white-clawed crayfish <i>Austropotamobius pallipes</i> estimated at 50,000 individuals. It is of national importance as one of the best lake populations of crayfish in England.</p> <p>The native crayfish population has declined in both Britain and elsewhere in Europe in recent years as</p>

	<p>a result of the commercial introduction of an American species the signal crayfish <i>Pacifastacus leniusculus</i>. This has escaped from fisheries and become established in the wild, but it carries a fungal disease to which the native crayfish has no immunity. The signal crayfish has been linked to the spread of the disease in many British rivers, but isolated water bodies like lakes and flooded quarries act as refuges for the native species. This makes the large population in Ensor's Pool particularly important in both regional and national contexts.</p>
Griff Hill Quarry	<p><b>Notified 16/01/1996</b></p> <p>Griff Hill Quarry is an active quarry located 1km north of Bedworth. The site boundary encompasses the working faces and an area of proposed quarry extension which is of key importance to facilitate further study at the site.</p> <p>Griff Hill Quarry exposes a complex and unique igneous sequence present in a sill 20—30 metres thick. The sill, of Ordovician age, is mostly of camptonite and syenite, but shows a black ultramafic cumulate facies of kaersutite – pyroxenite in the lower part of the sill. The sill dips at about 20° to the SW, and the site shows a cross section through these variations. Many features are present which provide evidence towards understanding the nature of the intrusion, such as enclaves of ultramafic rock within the camptonites and late-stage pink segregation veins of analcime-syenite. The rocks are beautifully fresh, and the transitions from ultramafic to basic to intermediate varieties are well displayed in the quarry, as well as under the microscope. The origin of the different igneous rock types is not yet fully understood, with scientific opinion divided as to whether the various facies represent a differentiation sequence or a multiple intrusion. Further research is needed to resolve this question.</p> <p>The sill intrudes Cambrian Stockingford Shales, which close to the sill are contact metamorphosed to cordierite-andalusite hornfels. Rafts of the shales are found within the sill. The sill has been unroofed by erosion, and regionally important small remnants of Carboniferous Coal Measures are preserved in fossil channel deposits. These deposits have been planed off by Triassic red marls, which lie unconformably over the bulk of the sill.</p>
<b>Appendix 1c</b>	
<b>Local Nature Reserves</b>	
Bedworth Sloughs	First declared 09/06/1978 for its Swallow Roosts. It consists of an area of water created originally by

	mining subsidence. It is a popular spot for walking and relaxing, bounded on one side by the A444 and on the other by a large allotment site. It is best approached from Newtown Road.
Ensor's Pool	First declared 09/01/1977. (See above)
Galley Common	First declared 01/03/2002.
<b>Appendix 1d</b>	
<b>Local Geological Sites</b>	
Griff Hill Quarry	<p><b>Geological Formations:</b> Midland Minor Intrusive Suite (Ordovician). First designated 28/03/2002 and reviewed 10/2009 (Warwickshire Geological Conservation Group).</p> <p>The site encompasses the three sides of the cliff which forms the eastern side of the now landfilled site. The exposures are up to 8m high, with a roadside length of 60m, some overgrown. The exposed faces exhibit part of a thick sill, attributed to the Midland Minor Intrusive Suite (McBride et al 1998), comprising weathered coarse grained lamprophyre. The weathering is of a spheroidal or "onion skinning" type.</p>
Griff Hollows	<p><b>Geological Formations:</b> Pennine Coal Measures (Carboniferous) and Midlands Minor Intrusive Suite (Ordovician). First designated 13/03/2002 (Warwickshire Geological Conservation Group).</p> <p>Exposures of Coal Measures Group sandstone, clay ironstone and thin coal seams, resting on an eroded surface of the griff sill. The succession is thought to lie near or at the base of the Westphalian A (Lower Coal Measures).</p>
Judkins Quarry	<p><b>Geological Formations:</b> Volcaniclastic and intrusive rocks (pre-Cambrian), Hartshill Sandstone Formation (Cambrian), Minor Midlands Intrusive Suite Formation (Ordovician) and Tarporley Siltsone Formation (Triassic). First designated 02/1992 and reviewed 10/2009 (Warwickshire Geological Conservation Group).</p> <p>In the northern part of the site a variety of Precambrian volcaniclastic and intrusive rocks are exposed, overlain unconformably by the Lower Cambrian Hartshill Sandstone Formation including basal conglomerates. These rocks are intruded by sills of a lamprophyric diorite (camptonite) of Ordovician age. On the eastern side of the quarry, Triassic sandstones of the basal Mercia Mudstone Group (Tarporley Siltsone Formation) with basal breccia lie unconformably on the Precambrian tuffs. It is also famous for its epidote-calcite mineralisation with the vanadium and copper minerals mottramite and vanadinite,</p>

	also barite, galena, sphalerite, and the copper minerals, malachite, azurite and bornite.
Midland Quarry	<p><b>Geological Formations:</b> Hartshill Sandstone Formation (Cambrian), Minor Midlands Intrusive Suite Formation (Ordovician), Bromsgrove Sandstone Formation (Triassic). First designated 02/1992 and reviewed 10/2009 (Warwickshire Geological Conservation Group).</p> <p>Fine exposure of a Caledonian diorite sill c.12m thick intruded into the Lower Cambrian Hartshill Sandstone Formation. This is the largest sill exposed in the County. There is unusual mineralisation which includes haematite, barite and mottramite. Elsewhere in the quarry, the Triassic Bromsgrove Sandstone Formation can be seen lying unconformably on the Cambrian Hartshill Sandstone Formation. In places, the unconformity reveals small valleys in the Triassic landscape which have probably been formed in semi-arid conditions not unlike those of parts of N. Africa today. These are frequently lined with very coarse, somewhat angular blocks. It is believed that the quarry was owned by, and provided a considerable amount of ballast to, the Midland Railway and also to the LMS - hence its name.</p>
Newdigate Railway Cutting	<p><b>Geological Formations:</b> Salop Formation (Carboniferous). First designated 02/1992 and reviewed 10/2009 (Warwickshire Geological Conservation Group).</p> <p>This cutting reveals part of the Whitacre Member of the Upper Carboniferous Salop Formation. A field visit in 1983 recorded exposures on either side of the bridge at SP 341 868 revealing hard red limestone with green marl horizons, overlain by red marl with discontinuous green horizons totalling c.2m in height. Limestone band has yielded fish debris, ostracods and the gastropod <i>Anthracopupa</i>. It is likely that this site would be of greatest use to researchers.</p>
Paul's Ford	<p><b>Geological Formations:</b> A river confluence with active erosion and deposition of a gravel bar. First designated 28/03/2002 and reviewed 10/2009 (Warwickshire Geological Conservation Group).</p> <p>Further field visit required to obtain accurate description.</p>
Paul's Land	<p><b>Geological Formations:</b> Tarporley Siltstone Formation (Triassic). First designated 07/03/2003 and reviewed 10/2009 (Warwickshire Geological Conservation Group).</p> <p>The section provides a rare opportunity to examine the Tarporley Sandstone Formation, traditionally known as the 'Waterstones', the transition beds between the Bromsgrove Sandstone Formation and the Mercia Mudstone Group. About 3m of fine grained, massive sandstone, siltstone and mudstone</p>



	<p>sequences are represented. It is possible that the contact with the Bromsgrove Sandstone could be revealed by clearing spoil from the base of the section. Some cleaning of the section is desirable. Description could draw on logs from p.92/3 of the memoir.</p> <p>Excellent teaching locality with good access.</p>
Stockingford Railway Cutting	<p><b>Geological Formations:</b> Purley Shale, Abbey Shale, Mancetter Shale and Outwoods Shale Formations (Cambrian), Minor Midlands Intrusive Suite (Ordovician) and Bromsgrove Sandstone Formation (Triassic). First designated 02/1992 and reviewed 10/2009 (Warwickshire Geological Conservation Group).</p> <p>The four lowest formations of the Stockingford Shale Group, namely the Purley Shale, Abbey Shale, Mancetter Shale and Outwoods Shale Formations, occur within the cutting. Fossil brachiopods and trilobites, including type material for the trilobite <i>Irvingella nuneatonensis</i>, have been collected from these shales. Triassic Bromsgrove Sandstone fills a depression in the Cambrian Purley Shale Formation at the eastern end of the cutting. Numerous sills and one dyke-like body have been intruded into the shales, the largest of which is approximately 15m thick. Access is difficult due to the active railway line &amp; therefore educational use is currently highly restricted. However, due to the fact that type material has been collected from the site its research value is still considerable.</p>
<b>Appendix e</b>	
<b>Local Wildlife Sites</b>	
Anker Mills	<p><b>Selected: 01/03/2004</b></p> <p>Anker Mills is a relatively large, but isolated area of semi-natural habitat within an extensive urban and industrial area. The site contains a range of sub-habitats including semi-improved grassland, tall herb, scrub, damp areas and a stream; it also has a high diversity of flowering plants. The stream is of importance as a wildlife corridor. The site is within walking distance of local communities and has value as a recreational resource.</p> <p>The site is divided into two areas by a railway line.</p> <p>Although there are no official public footpaths, public access is unrestricted and there is a well used casual footpath across the site.</p>

	<p><b>Anker Mills West</b> This is a small area of rank grassland and scrub bounded by two railway lines and a housing estate. The area is a disused industrial site.</p> <p><b>Anker Mills East</b> The larger eastern area is bounded by two railways, an industrial estate and a rugby pitch. The area was formerly the sludge bed of a British Rail cleaning shed. The ground has been disturbed and there are many hollows and ridges. The River Anker runs through the area. There is a recently constructed access track close to the western boundary. The area is unmanaged and much of it has been taken over by tall ruderal vegetation. There are also patches of rank semi-improved grassland that are dominated by coarse grasses. There are some low, wet areas where there are wetland communities, including Willow carr. There are also areas of Hawthorn scrub.</p>
Bailey Park Wildlife Area	<p><b>Selected: 03/02/2009</b></p> <p>Bailey Park Wildlife Area is roughly a square block of unmanaged semi-improved neutral grassland and scattered scrub, which has developed on a former landfill area within the Bedworth suburbs, 200m north of the Bedworth Town Centre. The site was largely bare in the mid 1980s but has since become well vegetated through natural colonisation. There is no record that the site was ever seeded but some trees and shrubs seem to have been planted in the south-west corner. Elsewhere, the scrub areas appear to have naturally colonised from the adjacent railway embankments. The drainage is generally rather impeded and the site can become very wet in winter, which is due to the site having originally contained a large pool before landfill operations began. The whole site is council-owned and has open access, with a network of paths across the area kept open by regular mowing. The surrounding land is mainly high density housing, but a school and associated playing fields borders the LWS to the south, where the land drops away rather suddenly from the artificially graded former tip down to the natural gradient. The Coventry-Nuneaton railway line forms the eastern boundary of the site.</p> <p>The site is still developing but during the current survey 121 vascular plant species were recorded, which is double that of a survey in 2002 when just 60 were found.</p> <p>The LWS qualifies for 11 scientific and 12 cultural criteria, of which the following are considered to be the most important.</p>

**Diversity**

The site contains a mosaic of semi-improved grassland, open and closed scrub and tall herb, with further minor sub-habitats such as wet areas and bare ground. There is an increasing diversity of vascular plants typical of semi-improved grasslands including 18 species of grasses and herbs such as Yellow Rattle, Common Birdsfoot-trefoil, Red Bartsia and Lady's Bedstraw. There is also a good range of birds and insects for an urban site.

**Rarity**

The LWS contains several species which are locally uncommon, such as Bee Orchid, Marbled White butterfly and Mother Shipton Moth. The grassland contains a species assemblage, e.g. Hoary Ragwort, Bulbous Buttercup and Bee Orchid more typical of calcareous grassland, a soil type which is unusual in the local area.

**Naturalness**

The habitats are semi-natural and have developed mainly through natural succession, a process which is still active.

**Fragility**

The site will need continued management in the future to preserve the present mosaic of habitats. If not checked the area will soon become dominated by scrub woodland and grassland ecosystems will disappear.

**Ecological Position**

Although isolated in a predominantly urban and suburban area, the site is linked via the scrub-covered railway embankments with other similar sites in the Miners Welfare Park/Black Bank area to the south, and to the Griff area to the north.

**Physical Access**

The site is fully accessible to the general public via a network of formal and informal footpaths.

**Community and Amenity Value**

	The LWS is very well used by local residents who appreciate the semi-rural nature of the site.
Barnacle Lane	<p><b>Selected: 29/10/2002</b></p> <p>Barnacle Lane is situated on the southern edge of Bulkington and is a varied site containing semi-improved grassland, scrub, tall herb, ponds, hedgerows and stream. It is an area of public open space with several surfaced footpaths. The land is generally flat, but becomes more undulating in the south. The site is surrounded by rough grassland then housing to the north with arable to the west and south and allotments to the east.</p> <p>Barnacle Lane qualifies for 8 scientific and 10 community criteria from the woodland and scrub criteria set and 8 scientific and 9 community criteria from the water bodies criteria set. The site's most important attributes are its diversity, naturalness and value to the local community. The site contains 7 Phase I habitats in close association and 107 plant species were recorded. The site appears to have developed through natural processes, with only a limited amount of tree planting. The areas of water have significant amounts of marginal vegetation, including locally rare Water-cress and the larger pond has a dipping platform. The grassland is important as a buffer to the other habitats within the site. The site is an area of open space with surfaced paths and is obviously well used by the public.</p>
Bayton Road Lakes (3 sites)	<p><b>Selected: 16/03/2004</b></p> <p>Bayton Road Lakes are located in the south-east of Bedworth. The site consists of public and private lakes with adjacent grassland and scrub. Surrounding land uses include a canal, golf course, railway line and agricultural grassland. The largest lake was formed from arable farmland in the mid 1980s. The area was hydro-seeded in 1988 and there has been some recent tree planting.</p> <p><b>Area 1:</b> is open to the public and is a lake with abundant marginal vegetation surrounded by semi-improved grassland.</p> <p><b>Area 2:</b> a lake surrounded by closely mown grassland.</p> <p><b>Area 3:</b> privately owned fishing lake with surrounding grassland.</p> <p>Despite it's somewhat artificial origins, the Bayton Road Lakes site has naturalised and now meets 13 scientific and 11 community criteria from the water bodies criteria set, 8 scientific and 6 community</p>

	<p>criteria out of the woodland and scrub criteria set and 10 scientific and 9 community criteria from the grassland and marsh criteria set. The site's most important attributes are its diversity, ecological position and community value. In terms of its diversity, the site contains 160 species including many grassland and wetland indicator species: Greater Spearwort, Common Reed, Gipsywort, Reed Canary Grass, Common Reedmace, Cyperus Sedge, Greater Pond Sedge, Water Dock, Water Mint, False Fox Sedge, Wild Carrot, Common Knapweed, Yellow Oat-grass and Marsh Foxtail. The site contains several rare species including Branched Bur-reed, Greater Spearwort, Water-cress, Sweet Flag, Lesser Water-parsnip, Oval Sedge, Cyperus Sedge, Spiked Sedge, Fringed Water-lily and Greater Burnet-saxifrage. The site is also important in terms of its ecological position as it is one of several semi-natural sites in the area and is adjacent to the Coventry Canal. The site has value for the community as most of it is open to the public; it is close to residential areas and has attractive vegetation.</p>
<p>Bedworth Sloughs</p>	<p><b>Selected: 14/12/2001</b></p> <p>Bedworth Slough qualifies for 17 scientific and 15 community criteria from the Water Courses and Water Bodies criteria set. Bedworth Slough Meadow qualifies for 4 scientific and 11 community criteria from the grassland and marsh criteria set. The most important attributes of the site are naturalness, rarity, diversity and community criteria.</p> <p>Bedworth Sloughs Consists of a 1.87ha lake formed by subsidence with marginal swamp and a small adjacent meadow. The swamp contains two vegetation communities which are rare in Warwickshire these are Bulrush swamp and Reed Sweet-grass swamp. There is a good range of breeding wetland birds including: Great Crested-grebe, Reed Bunting, Reed Warbler, Mute Swan, and Tufted Duck. Hobby also use the area for feeding. The adjacent meadow adds to the amenity interest of the site and contains a few species which indicate a lack of agricultural improvement: Lesser Knapweed, Pignut, Great Burnet and Chimney Sweeper moth. Bedworth Sloughs is an important community recreation area as it is a LNR.</p>
<p>Bermuda Balancing Lake</p>	<p><b>Selected: 29/10/2002</b></p> <p>Bermuda Balancing Lake is a large lake surrounded by gently sloping semi-improved grassland and scrub located to the south of Nuneaton. Much of the western area is of recent origin and the grasslands here have been artificially seeded. Surrounding land uses to the site include industrial,</p>

	<p>residential, roads and rough grassland. The site is an area of public open space and has surfaced paths running round the site and entrances at several points.</p> <p>The site is comprised of a lake with grassland and scrub. Although much of the site is of recent origin, it nevertheless qualifies under 8 scientific and 11 community criteria from the grassland and marsh criteria set, and 9 scientific and 9 community criteria from the water bodies criteria set. The main attributes of the site are it's diversity, ecological position and community value. The site has a total of 152 species which include grassland indicator species such as Sweet Vernal-grass, Common Knapweed, Red Bartsia, Weld, Great Burnet, Yellow Oat-grass, Marsh Foxtail, Wild Carrot and Common Spotted Orchid. The lake also contains some species that are rare in Warwickshire: Water-cress and Branched Bur-reed. The site has been enhanced by the recent planting of native trees in fenced enclosures. The site has open access and is well used by the public and is also close to residential areas. It is undoubtedly of high community and amenity value. Since there are several other semi-natural sites in the locality, this site may well be important in terms of it ecological position, performing a 'stepping stone' function.</p>
Black Bank Meadows	<p><b>Selected: 9/12/2008</b></p> <p>Black Bank Meadow LWS consists of a triangular area of semi-improved grassland and scrub situated on the south side of the Miners Welfare Park, about 700m south of Bedworth town centre. The land here was originally part of the long gone Bedworth Charity Colliery and lies on the gentle south-facing but rather irregularly graded slope of a low hill which covers the site of the former mine. An old colliery lagoon now forms a small pool in the north-east corner of the site. The southern border of the LWS consists of a partly destroyed cutting which once held a canal branch but is now a public footpath, while on the east side is the Coventry-Nuneaton railway line. The local area largely consists of factory units and high density housing estates but there are open arable fields close by to the east beyond the nearby Coventry Canal.</p> <p>Black Bank Meadow qualifies for 11 scientific and 10 cultural criteria, of which the following are thought to be the most important:</p> <p><b>Diversity</b> Although classified as post-industrial MG1 grassland, there is a higher than average species diversity</p>

	<p>and there are now many similarities to MG5 Crested Dog's-tail/Common Knapweed grassland. There is also a strong showing of plants more characteristic of calcareous soils, such as Field Scabious and Musk Mallow. The site contains a mosaic of several habitats, including semi-improved grassland, scrub, tall herb and a pon, with semi-natural secondary woodland occupying the adjoining railway cutting which could be included. A range of sub-habitats include dry banks, wet flushes, clearings and rides within the scrub areas, limited areas of bare ground and variable slope throughout.</p> <p><b>Rarity</b> In a local context, species-rich semi-improved grassland is uncommon in the borough. The site also contains several species characteristic of calcareous soils such as Field Scabious and Hoary Ragwort which are scarce in the north of the county, while Hairy St. John's-wort is very rare.</p> <p><b>Ecological Position</b> The LWS is connected via the old railway cutting and public walkways with other nearby areas of semi-improved grassland and scrub at Black Bank Pool to the west and around the Severn Trent Water Coal Pit Lane balancing lake to the south-east. There are two locally important wildlife corridors; the first comprising the old cutting leaves the LWS westwards and cuts across urban Bedworth. The second is the Coventry Canal which runs from south-north just beyond the railway to the east.</p> <p><b>Physical Access</b> The area is crossed by both formal and informal public paths and is well-used for recreation by local people.</p> <p><b>Community and Amenity value</b> The area is very popular with local people, with the grassland areas containing colourful meadow flowers and butterflies being particularly attractive. The site also contains specific links to Bedworth's coal-mining past.</p>
Boon's Wharf	<p><b>Selected: 29/10/2002</b></p> <p>Boon's Wharf is located in the north-west of Nuneaton adjacent to the Coventry Canal and is comprised of semi-improved grassland with encroaching scrub. The site is surrounded by arable land on three sides and the canal on the other. There is no formal access to the site, but there is evidence</p>

	<p>of regular use by members of the public through informal access points and paths.</p> <p>Boon's Wharf qualifies for 10 scientific and 8 community criteria for the woodland/scrub criteria set and 9 scientific and 8 community for the grassland and marsh criteria set. The most important attributes of the site are its diversity, naturalness, ecological position and community value.</p> <p>In terms of diversity and naturalness the site contains 106 plant species which appear to have developed through natural processes. There has been some planting of conifers but in only limited numbers. The site contains several species associated with good quality semi-improved or unimproved grassland: Yellow Rattle, Glaucous Sedge, Pale Sedge, Field Woodrush, Sweet Vernal-grass, Common Spotted Orchid, Sheep's Sorrel, Zigzag Clover, Hawkweed, Oxeye Daisy, Common Bird's-foot-trefoil, Mouse-ear Hawkweed and Common Knapweed. The site is also important in terms of its ecological position as it is one of a number of semi-natural sites in the area, including a wildlife corridor; the Coventry Canal. The site is also of value to local communities having aesthetically attractive vegetation and being within walking distance of residential areas.</p> <p>An invertebrate survey might also reveal the site has an importance for invertebrates.</p>
<p>Brett's Hall Wood (mostly within NWBC)</p>	<p><b>Selected: 25/01/2005</b></p> <p>Bret's Hall Wood SINC is located at approximately 1 km west of Nuneaton. It is part of a small woodland group that also includes Bretts Hall Wood, and Barn Moor Wood, within a landscape that is largely arable.</p> <p>The site qualifies for at least 14 scientific and 8 Community criteria. The most important attributes of the site are its diversity, rarity, and naturalness.</p> <p>The woodlands contain a diverse range of semi natural tree and shrub species. The ground flora includes several ancient woodland indicator species including Bluebell, Dog's Mercury, Wood Anemone, and Wood Sorrel.</p> <p>In terms of rarity, semi-natural woodland is rare in the area.</p>



	<p>The wood has been modified by planting, but despite this is largely in a semi natural state as shown by the largely natural distribution of native tree and shrub species, and the presence of ancient woodland indicator species.</p>
<p>Cattles Wood (Lees Wood and Gorsty Piece)</p>	<p><b>Selected: Unconfirmed</b></p> <p>The woodlands are part of Arbury Park, an extensive private estate that comprises landscaped parkland and lakes, farmland, as well as several areas of woodland. The woodlands are all listed on English Nature’s Ancient Woodland Inventory as Ancient Semi-Natural Woodland (ASNW) however all have been cleared and replanted throughout with mostly conifer crops for timber production. A few native broadleaf trees remain at the edges. The woodlands belong to the W10 <i>Quercus robur-Pteridium aquilinum-Rubus fruticosus</i> (Pedunculate Oak-Bracken-Bramble) woodland community. There is limited habitat, structural, and species diversity in these woodlands. They are immediately surrounded by agricultural fields but form part of a group of woodlands on the Estate.</p> <p><b>Castles Wood,</b>          Castle Wood is dominated by Scots Pine (<i>Pinus sylvestris</i>) high forest with occasional Oak (<i>Quercus robur</i>), with more frequent Oak and Beech (<i>Fagus sylvatica</i>) on the periphery and in the south-west corner. The structure is poor with the understorey largely absent. The north edge of the wood has a bank with old coppiced Hazel (<i>Corylus avellana</i>).</p> <p><b>Lees Wood and Gorsty Piece</b>          Lees Wood and Gorsty Piece are dominated by Scots Pine and Larch (<i>Larix sp</i>) and occasional Beech (<i>Fagus sylvatica</i>) high forest with occasional Silver Birch (<i>Betula pendula</i>) and Oak at the periphery. Other species tree and shrub species include occasional Sycamore (<i>Acer pseudoplatanus</i>), Rowan (<i>Sorbus aucuparia</i>), Holly (<i>Ilex aquifolium</i>), Hazel and Elder (<i>Sambucus nigra</i>).</p> <p>The field layer in all three woodlands is relatively species poor</p> <p>The conservation value of the woodlands lie primarily in their Ancient Semi-natural Woodland (ASNW) status and the potential to improve their condition through future management. Although mapped as ASNW on English nature’s Ancient Woodland Inventory these woodlands have been cleared and replanted with coniferous species and are therefore best classified as Plantation on Ancient Woodland.</p>

	<p>There is limited habitat, structural, and species diversity in these woodlands. The field layer is relatively species poor with Bracken and Bramble generally being dominant with Bluebell locally dominant in places. Other plants are rare to occasional, tending to be more diverse and abundant at the periphery of the wood.</p> <p>There is potential for woodland improvement through the removal of non-native species and favouring and encouraging appropriate native species. There is potential for improving the structure of many of the woodlands through encouraging the development of a native understorey. There is also potential to increase the habitat diversity through management of the woodlands, re-introduction of coppice and creation and management of rides.</p>
Griff Hollow	<p><b>Selected: 14/12/2001</b></p> <p>Griff Hollow is open to public access and is an area of habitat containing scrub, woodland, tall herb mire, acid grassland and rank neutral grassland. Scrub and woodland accounts for most of the site, covering approximately 4ha. Tall herb mire also occupies a substantial area at 0.92ha. The extent of acid grassland is rather small occupying just a few square metres in a woodland clearing.</p> <p>There are no similar habitat mosaic sites in the vicinity. Some quarries adjacent to the south and west contain small areas of post industrial habitats. To the north is an urban residential area, the Hill Top Estate. The land to the south and south-east is arable farmland whilst the Coventry Canal forms the eastern boundary of the site.</p> <p>The mire, dominated by meadowsweet and the acid grassland are the most important vegetation types present; both are rare habitat types in the county. The invertebrate fauna is likely to be rich, with three species of county rarity having been recorded. Water Vole and Common Lizard have also been recorded recently.</p> <p>Griff Hollow qualifies for 12 scientific and 9 social criteria from the mosaic criteria set. The important qualities of the site are its diversity, rarity and naturalness. In terms of diversity there are 6 phase I habitats present and at least 85 vascular plant species. These have developed largely through natural processes of colonisation and succession as the site has been neglected.</p>

	<p>In terms of rarity M27 mire is rare in the county and of scattered distribution throughout central, southern and eastern Britain. Acid grassland of any type is also rare in Warwickshire. The plant Climbing Corydalis is very rare in Warwickshire and has a restricted distribution in England.</p> <p>Three invertebrates of county rarity have been recorded. Further surveys would probably reveal a diverse invertebrate fauna including other rarities. Water Vole is listed as a key species in Annex F of "Biodiversity: the Steering Group Report". Common Lizard is also rare in the county.</p> <p>Griff Hollow is also a valuable community resource with open public access to aesthetically attractive natural habitats and a wide diversity of species.</p>
Heath Road Fields	<p><b>Selected: 29/10/2002</b></p> <p>Heath Road Fields are three fields of semi-improved grassland and scrub located in the west of Bedworth. The site has various external boundaries including wooden fencing, wire fencing and hedgerows. There are also internal wooden fences separating the site into three fields. The site is bordered by housing on two sides and public footpaths in the south and east. There is no formal public access to the site, however there is evidence of regular public use. All three fields are well grazed and have very short turf making accurate surveying difficult.</p> <p>The grassland at Heath Road Fields meets 8 scientific and 4 community criteria from the grassland and marsh criteria set. The most important attributes of the site are its diversity, naturalness and ecological position. In terms of diversity and naturalness the site contains areas of good quality semi-natural grassland with 79 species of higher plants recorded including several species associated with species-rich semi-improved or unimproved grassland: Sheep's Sorrel, Hawkweed, Sweet Vernal-grass, Field Woodrush, Common Knapweed, Greater Bird's-foot-trefoil and Common Bird's-foot-trefoil. However, this could well be an underestimate due to the difficulty in accurately surveying such short turf. The species composition appears to have developed under natural processes with no obvious signs of planting. The site also has a good ecological position connected to a public footpath and dismantled railway line and is one of several semi-natural sites in the area. The site has importance for the local community as it is located within a residential area.</p>
Hinckley Road Disused	<p><b>Selected: 23/03/2010</b></p>

<p>Railway Line</p>	<p>The LWS consists of a roughly 0.75 km stretch of disused dismantled railway within the urban part of central Nuneaton and just 0.5 km north-east of the town centre. The railway was a short-lived feeder line on the Birmingham-Leicester railway that has been closed around 30 years. The main habitats of interest lie on the stretch between the River Anker bridge in the west and the public footbridge near the northern end of Oaston Road to the east, although part of the latter has recently been cleared. There are old iron bridges crossing the two main roads below, namely the A444 Weddington Road to the west and the A47 Hinckley Road to the east, and these form part of the connective corridor. The whole stretch is embanked and appears to include both calcareous and acid substrates in its construction. The adjacent land use is dominated by warehouses and factories, interspersed with old and new housing estates.</p> <p>Hinckley Road Disused Railway qualifies as a LWS with 16 scientific but only five community criteria, of which the following are considered to be the most important.</p> <p><b>Diversity</b> The LWS contains a mosaic of habitats including pioneer scrub and scrub woodland, tall herb, heathland, semi-improved grassland and sparsely vegetated substrates. These support an unusually high diversity of vascular plants for an urban site, with 163 species recorded. The site also supports a reasonably diverse range of other groups, particularly birds, invertebrates and lichens.</p> <p><b>Rarity</b> The heathland area, although relatively restricted, is a very rare habitat in Warwickshire and is also an important habitat both nationally and internationally. The site also supports a number of uncommon county plants, including Heather, Wavy Hair-grass, Annual Wall-rocket, Blue Fleabane, Sheep's Fescue, Common Cudweed, Trailing St. John's-wort, Wall Lettuce, Marjoram and Haresfoot Clover.</p> <p><b>Fragility</b> The areas of grassland and particularly heathland are subject to increasing scrub invasion, which will ultimately destroy the sites value without control.</p> <p><b>Ecological Position</b></p>
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	<p>The LWS forms an important urban wildlife corridor and connects other semi-natural sites across the north and east of Nuneaton via the Anker valley, which it meets at both ends. More locally it is important for providing linkages for two disconnected courses of the River Anker and the associated flood relief channel, as well as potentially to a further section of the same railway situated to the south.</p> <p><b>Physical Access and Community Value</b></p> <p>The site is only used by the general public to the east of Hinckley Road. To the west the site has been long neglected leading to anti-social activity, while safety and security issues for both local people and the adjacent commercial premises need to be addressed.</p>
Hollystitches Dell	<p><b>Selected: 29/10/2002</b></p> <p>Hollystitches Dell is situated in the north-west of Nuneaton and is surrounded on most sides by housing, although in the south-east it borders rough grassland and a quarry. It is a steeply sloping site, with upper and lower levels and a stream flowing south-east through its lower half. There are several footpaths running down through the site and there is open access from several points.</p> <p>Hollystitches Dell is composed of woodland, scrub, grassland and stream and qualifies under 11 scientific and 9 community criteria from the woodland and scrub criteria set. The main attributes of the site are its naturalness, ecological position and its community value. The site has a total of 83 plant species, among which are the woodland indicator species Bluebell and Remote Sedge. The site appears to have developed naturally with no signs of recent planting, and although there are non-native species in the woodland they are not dominant. In terms of its ecological position the site is one of several semi-natural sites in the area. The site is also surrounded by housing on most sides and has open public access, therefore providing a good community resource. The abundance of the Bluebells in the woodland means that the site also has attractive ground flora.</p>
Houldsworth Crescent and Homefire Plant (mostly in Cov)	<p><b>Selected: 1998</b></p> <p>The site is a long corridor (approximately 1.5 km long) of floristically diverse, mostly post-industrial habitat including grassland, ephemeral/short perennial, tall ruderal, fen/swamp, scrub and secondary woodland supporting a wide variety of vegetation communities. The main components of the site are the northern end of the abandoned Coventry 'Loop Line' from Keresley Colliery to Wheelwright Lane, the British Coal land beside Houldsworth Crescent, and parts of the grounds of the Coventry Homefire</p>

	<p>Plant at Keresley.</p> <p>An important medium-sized wildlife site, straddling the southern boundary of Bedworth and northern boundary of Coventry City which represents the only substantial area of accessible natural green space for a large part of north Coventry. It is highly diverse with impressive lists of habitats, vegetation communities, vascular plants, birds and insects. At least 180 plants are present and the insect list runs into several hundred species.</p> <p>Several scarce vascular plants and insects and species are present, and a population of great-crested newts. The population of several hundred bee orchids recorded in the past is regionally significant. 28 birds of RSPB conservation concern have been recorded since 1980, which is outstanding for this area.</p> <p>The site forms part of a valuable wildlife corridor, helping to link the wider countryside with urban wildlife sites such as the Foleshill Gasworks and Coventry Canal. The eastern part of the site is well used by local residents of all age groups and acts as a link between Holbrooks and the footpath network of the wider countryside.</p>
Kingswood Meadow	<p><b>Selected: 20/08/2001</b></p> <p>Kingswood Meadows is a large SINC comprising ten fields of neutral grassland and two areas of Broad-leaved semi-natural woodland. The degree of agricultural improvement each field has received is variable, four fields have been classified as largely Unimproved neutral grassland with the remaining six classified as Semi-improved neutral grassland. Most of the site is owned by Nuneaton and Bedworth Borough Council and is managed sympathetically by the council and three tenants. Haycutting and grazing are practised.</p> <p>Kingswood Meadows SINC qualifies for 17 scientific and 12 community criteria from the grassland and marsh criteria set plus 19 scientific and 14 community criteria from the woodland and scrub criteria set. The single most important aspect of the site is the unimproved neutral meadows. These combined with the ancient woodland and high community value make Kingswood Meadows one of the most important SINC's in the Borough. The main factors of the sites importance are its diversity, rarity, size, naturalness, typicalness, potential value and community value.</p>

In terms of diversity 138 plant species and 8 species of diurnal Lepidoptera were recorded in the current survey. Two NVC and 6 Phase I communities were identified. As the site is so large there is a lot of sub-habitat diversity, particularly within the grassland, which has notable variations in aspect, acidity and hydrology.

In terms of rarity MG5 grassland is of national importance being of scattered, and declining, distribution throughout the British lowlands. Few unimproved examples exist now in Warwickshire, of what was previously the prevalent vegetation type. MG5c is probably the most restricted sub-community. Ancient woodland, whilst W10 vegetation is at least of local, if not national importance. Very few stands exist within the Borough.

Saw-wort and Toothwort are the rarest plants associated with the site. The Computer Mapped Flora of Warwickshire describes Toothwort as "A very rare plant". Saw-wort is also rather rare in the county and likely to be in serious decline given the rate of destruction of unimproved meadows and marshland. Both these species are listed in the provisional Warwickshire Rare Plants Register. Toothwort is described as locally rare ie recorded in 3 or less 10km squares whilst Saw-wort is described as locally scarce ie less than 10 sites and declining.

The Lepidoptera fauna of the site also has some importance with a few species of local distribution in the county recorded: Chimney Sweeper, Burnet Companion, Mother Shipton and Small Heath. The area of grassland is rather large with 6.56ha of unimproved and 9.2ha of species rich semi-improved grassland.

In terms of naturalness the grassland contains substantial areas of unimproved vegetation with a long list of species indicative of these conditions: Quaking Grass, Tall Fescue, Meadow Fescue, Cuckooflower, Glaucous Sedge, Carnation Sedge, Lesser Knapweed, Pignut, Common Spotted-orchid, Meadow Vetchling, Oxeye Daisy, Bird's-foot-trefoil, Greater Bird's-foot-trefoil, Field Wood-rush, Silverweed, Tormentil, Great Burnet, Betony, Devil's-bit Scabious, Zigzag Clover, Brooklime, Yellow-rattle, Lady's-mantle and Saw-wort. The grassland is largely managed in a traditional manner: most of the site is subject to an annual haycut and has not recently been fertilised or otherwise treated. Elsewhere grazing is practised with some muck spreading.

	<p>The woodland and some of the hedges are also very natural, particularly Kingswood, which appears to be ancient woodland and is likely to have been managed historically as coppice with standards. There has been little, if any, recent planting and no non-native woody species were recorded in the present survey. Several species largely restricted to ancient woodland are present such as Hazel, Small-leaved Lime, Guelder-rose, Wood Millet, Wood Anemone, Remote Sedge, Wood Sedge, Enchanter's-nightshade, Yellow Archangel, Dog's-mercury, Wood-sorrel and Greater Stitchwort.</p> <p>The grassland areas are fragile and depend on continued appropriate management. One of the areas classified as largely unimproved grassland is subject to a planning application for housing. Human disturbance may also be having a negative effect on the site due to the high visitor numbers and the burning of stolen cars.</p>
Nuneaton Common	<p><b>Selected: 29/10/2002</b></p> <p>Located in the west of Nuneaton this relatively flat site consists of semi-improved grassland with scrub, broad-leaved woodland and streams. The site has open public access with formal and informal paths throughout. Surrounding land uses include residential, a building site, cemetery and nature walk.</p> <p>The Nuneaton Common site qualifies for 13 scientific and 10 community criteria from the woodland and scrub criteria set and 9 scientific and 11 community criteria from the grassland and marsh criteria set. Its most important attributes are its diversity, naturalness, ecological position and value to the community. In terms of diversity and naturalness the site as a whole has 146 species with the woodland and scrub having 95 recorded species and the grassland having 94 species. The woodland has several woodland indicator species: Wood Melick, Bluebell, Wood Anemone, Dog's Mercury, Remote Sedge, Hazel, Yellow Archangel, Wood Millet and Greater Stitchwort. It also appears to have developed naturally with no significant recent plantation or non-native species. The grassland contains indicators of good quality semi-improved/unimproved grassland: Greater Burnet, Yellow Oat-grass, Field Woodrush, Marsh Foxtail, Sweet Vernal-grass, Heath Bedstraw, Common Knapweed, and Pignut.</p> <p>The woodland and grassland both contain locally rare species: Oval Sedge, Goldilocks and Remote Sedge. The site contains 4 habitats in close association, is connected to a linear habitat and is one of several semi-natural sites in the area. The whole site has open access to the public, is close to</p>



	residential areas and its vegetation has aesthetic appeal.
Poor's Piece	<p><b>Selected: 29/10/2002</b></p> <p>Poor's Piece is located in the north-west of Nuneaton. It is a disused quarry with adjacent woodland. There is no public access to the quarry which has metal fencing on all sides, although there is an informal path around the eastern side of the site which implies some unauthorised access. The woodland has a single open access point in the south. The site is surrounded by housing on three sides with a road to the east. There are no obvious signs of management.</p> <p>Poor's Piece qualifies under 10 scientific and 4 community criteria from the post-industrial criteria set. The site's major attributes are diversity, rarity and naturalness. The site contains 4 habitat types in close association with 77 plant species recorded during the survey including Spear-leaved Willow herb which is a species on the edge of its range in Warwickshire. The site appears to have developed naturally since its use as a quarry ceased with no signs of recent planting, although the woodland adjacent to the quarry does contain significant amounts of non-native species. The site is one of several semi-natural habitats in the area. The adjacent woodland is open to the public and there is evidence of informal access to the quarry. Therefore the site also has some value to the local community.</p>
Red Banks	<p><b>Selected: 6/5/2010</b></p> <p>Red Banks is a small suburban park situated just to the north of the southern end of the B4102 Croft Road, about 1.5 km east-south-east of Nuneaton town centre. The park is of fairly recent origin having developed on quarried land that was formerly part of a brickworks (and earlier a coal mine), which was then converted to a landfill site before being landscaped. It is now an important feature in the local community. The eastern part of the park consists of several pronounced mounds created from imported spoil, which levels out considerably towards the western and southern boundaries. This area is mainly rough semi-improved grassland which is left uncut for the benefit of wildlife during the summer months. There are also a few small blocks of planted scrub. The western end of the park, which is also within the LWS, consists of mown amenity grassland covering a storm drain basin. The park is criss-crossed with paths, including both paved and permanent dirt tracks, and more casual desire lines. The site is now isolated from other open spaces having been hemmed in on all sides by closely built modern housing estates; thus the park is very popular with local residents, including</p>

children who use the small play ground part enclosed by the mounds.

Red Banks qualifies as a Local Wildlife Site with nine Scientific and ten Community criteria, of which the following are considered to be the most important.

**Diversity**

The semi-improved grassland contains a good diversity of vascular plants including Common Knapweed, Common Centaury, Lady's Bedstraw, Meadow Vetchling and Common Birdsfoot-trefoil.

**Rarity**

Species rich semi-improved grassland of any sort is now uncommon in the county, particularly in Nuneaton; while calcareous grassland is very scarce locally. There are several species in the more calcareous swards occurring on the mounds which are now uncommon in Warwickshire, including Southern Lady's-mantle, Lesser Hawkbit and Salad Burnet.

**Fragility**

The development of species-rich grassland is entirely due to the recent sympathetic mowing regimes, allowing substantial areas to be left uncut during the summer months. If there is a return to close-mowing the site year round then all interest will be quickly lost.

**Typicalness**

The grassland is a good local example of MG6 grassland and is particularly valuable in Nuneaton, where similar grasslands are now rare.

**Ecological Position**

The park is connected to a strip of grassland following the course of an old mineral line, which potentially forms a wildlife corridor linking the site with Ensor's Pool Nature Reserve 0.75 km to the south-east.

**Physical and Visual Access**

The park is fully open to the public and contains a range of paths of varying quality.

	<p><b>Community and Amenity Value</b> This is one of the most important criteria for the LWS as the park provides a valuable resource to local people in an area where other public open spaces are virtually absent. The colourful flower-filled grassland provides a vital link to the countryside in an otherwise heavily built-up area.</p> <p><b>Geographical Position</b> The site is entirely surrounded by large housing estates and so is almost totally isolated from other semi-natural habitats.</p>
Seeswood Pool	<p><b>Selected: Unconfirmed</b></p> <p>Seeswood Pool is a large open body of water with a surface area of approximately 8.0 hectares. The total area of the site, which also includes a narrow margin of grassland around the perimeter of the pool, with marsh and tall herb areas to the west, is around 10 hectares. The land surrounding the site is mostly improved pasture, with some arable land. The pool apparently was originally formed when mining activity caused the land to subside. The pool is now used for commercial fishing. The water level of the pool was raised in the 1980's, flooding the pool margins. Some surviving but flooded willow, and a large number of dead tree stumps protrude from the surface of the water. The pool and surrounding habitat attracts an abundance of bird life including several unusual and notable species.</p> <p>The site qualifies for at least 14 scientific and 11 Community criteria. This is a diverse site with a range of habitats including a large body of open water, marginal swamp vegetation, marsh, semi-improved grassland, tall herb vegetation, and mature trees. The pool margins and the surrounding marshy grassland support a good range of wetland plants including Sweet Flag, Common Reedmace, Water Mint, Amphibious Bistort, Gipsywort, Water Forget-me-not, Yellow Flag, Meadowsweet, Lesser Spearwort, and Tubular Water-dropwort, the last a rare species in Warwickshire.</p> <p>Seeswood Pool and the surrounding habitat attracts a rich bird life, with several rare, unusual, and notable species recorded including Caspian Tern, Osprey, Honey Buzzard, Mediterranean Gull, Spotted Flycatcher, Great-crested Grebe, and Reed Bunting. The site is an important area for post breeding and non-breeding Common Terns throughout the Summer months, and is also an important area for birds on Spring and Autumn migration including: Wheatear, Yellow Wagtail, Swallow, House Martin, Sand Martin, Swift, waders and gulls.</p>

The Nook	<p><b>Selected: 5/01/2007</b></p> <p>The Nook itself is a shallow pool formed by mining subsidence. A raised causeway that previously carried an old mineral railway runs through the middle of the pool. The causeway is now land locked with narrow channels at either end separating it from the pool margins. It has a quite extensive shrub cover including Hawthorn, Alder, Ash and Willow. There also appears to have been some recent tree and shrub planting.</p> <p>The causeway is bordered by emergent vegetation. On the southern side there are large stands of tall Bulrush with Water Mint below. Other species include Purple Loosestrife.</p> <p><b>Diversity</b> This is a diverse site with a range of habitats including a large pool, marginal vegetation, marshy grassland, semi-improved grassland, tall herb vegetation and mature trees.</p> <p><b>Rarity</b> The grassland includes some quite species rich, albeit neglected MG4 grassland. This type of grassland is now rare both nationally and internationally and is listed in annex 1 of the EC Habitats Directive as a habitat of European conservation concern.</p> <p><b>Fragility</b> The species rich grassland is suffering through lack of appropriate management. Recreational use also has had an effect on the grassland, particularly around informal paths and the pool.</p> <p><b>Access, community value and aesthetic appeal</b> The site is open to public access and appears to be very well used by local people. The proximity to residential areas means the site provides an opportunity for local people to have contact with wildlife and is a resource for informal recreation. The site supports attractive vegetation providing the site with significant aesthetic appeal.</p>
The Shuntings	<p><b>Selected: 6/5/2010</b></p>

The Shuntings is a local authority linear nature walk set up on a disused mineral railway line skirting the western outskirts of Nuneaton, about 3.5 km from the town centre. The line was formerly used for moving stone from the Hartshill quarries down to the Nuneaton-Birmingham railway but only the southern stretch running for 1.5km between Plough Hill and Whittleford is in the LWS.

The Shuntings qualifies as a Local Wildlife Site with 11 scientific and 13 community criteria, of which the following are considered to be the most important.

### **Diversity**

The site contains a variety of habitats and sub-habitats including closed canopy and open scrub, developing semi-natural deciduous woodland, open water, wet mud, steep slopes, tall herb, Bracken and rough grassland, while two streams pass close by. Although plant diversity is not high, the total of 116 vascular plants is fairly good for secondary woodland and scrub, with woody species being particularly diverse. A good range of birds are present, with the scrub being important for refuelling autumn migrants.

### **Rarity**

No county rare habitats are present, although parts of the more mature woodland now resemble W10 woodland. Any type of semi-natural deciduous woodland is now notable around Nuneaton. The walkway includes several locally notable plants such as Remote Sedge, Scaly Male-fern, Wall Lettuce and Zigzag Clover. Heather was recorded from one spot towards the northern end in both 1997 and 2001 but the area has since become overgrown with Bracken, although some may still exist. Toothwort has been reported from the southern end and its continued presence will need to be confirmed.

### **Naturalness**

There are substantial areas of scrub and semi-natural deciduous woodland along the walkway which have developed through natural succession.

### **Ecological Position**

This is probably the most important criterion, as the site provides a vital connective corridor between other local semi-natural sites, including the important Whittleford Park LWS, Nuneaton Common LWS and open countryside. There are also other areas of scrub, rough grassland and old hedgerows

	<p>outside the LWS which connect directly with the walkway.</p> <p><b>Physical and Visual Access</b> The walkway is a public access footpath which is very popular with local people, particularly dog-walkers and through-routers, including children coming home from school.</p> <p><b>Community and Amenity Value</b> Local people use the path for its peacefulness, as nearby housing estates are generally well screened by trees. The walkway is also an important relic in local community history.</p>
Thorneyfield Wood	<p><b>Selected: Unconfirmed</b></p> <p>Thorny Field wood is situated approximately 1 km west of Nuneaton. It is part of a small woodland group that also includes Bretts Hall Wood, and Barn Moor Wood. It is an ancient woodland, the boundaries of which have remained unchanged since the 1st edition OS map.</p> <p>The site qualifies for at least 15 scientific and 8 Community criteria for woodlands. The most important attributes of the site are its diversity, rarity, and naturalness.</p> <p>The ground flora is very diverse and contains several species indicative of ancient woodland including Yellow Archangel, Wood Anemone, Dogs Mercury, Bluebell, and Pendulous Sedge.</p> <p>In terms of rarity, semi-natural woodland is rare in the County.</p> <p>Despite the presence of Sycamore, the wood is largely in a semi natural state as shown by the mostly natural distribution of native tree and shrub species, and the presence of several ancient woodland indicator species.</p>
Wem Brook Meadow	<p><b>Selected: 5/01/2007</b></p> <p>The site is located adjacent to Wem Brook in the Hill Top area of south Nuneaton. It comprises grassland, tall herb and scrub vegetation.</p> <p>The site qualifies for at least 11 scientific criteria and 8 community criteria. Its most important attributes</p>

	<p>are:</p> <p><b>Rarity</b> The grassland includes some quite species rich MG4 grassland. This type of grassland is now rare both nationally and internationally and is listed in annex 1 of the EC Habitats Directive as a habitat of European conservation concern.</p> <p><b>Diversity</b> This is a small site that is mostly grassland but does include areas of tall herb and scrub. The site is also bordered by Wem Brook, a locally important watercourse that flows through south Nuneaton into the River Anker</p> <p><b>Fragility</b> The survival of the species rich grassland is dependant on sensitive management. Recreational use also has had an effect on the grassland, particularly around informal paths.</p> <p><b>Access, community value and aesthetic appeal</b> The site is open to public access and appears to be very well used by local people. The proximity to residential areas means the site provides an opportunity for local people to have contact with wildlife and is a resource for informal recreation. There site supports an attractive vegetation providing the site with significant aesthetic appeal.</p>
Weddington Country Walk	<p><b>Selected: 29/10/2002</b></p> <p>Weddington Country Walk is a linear strip of unimproved grassland and scrub running along a disused railway line in the north-west of Nuneaton. A public footpath runs along the length of the site with access at various points. Adjacent land use is primarily arable and pasture. A railway line forms the southern boundary to the site and a road bounds the north, with another road crossing the site approximately half way along its length.</p> <p>Weddington Country Walk qualifies under 9 scientific and 9 community criteria from the woodland and scrub criteria set and 10 scientific and 11 community criteria from the grassland and marsh criteria set. The main attributes of the site are its diversity, naturalness, ecological position and community value.</p>

	<p>The site contains 155 species of which several are indicators of good semi-improved/unimproved grassland: Great Burnet, Burnet Saxifrage, Common Centaury, Yellow Oat-grass, Carnation Sedge, Salad Burnet, Common Knapweed, Perforate St John's-wort, Common Spotted Orchid and Wild Carrot. The site is the route of a former railway line and the vegetation appears to have developed naturally since its use for this function ceased. There is some evidence of recent tree planting, but only in small areas and they appear to be native species. The site connects to other areas of semi-natural habitat and is itself a wildlife corridor. There is open public access to the site and it is well used by the public. It is close to residential areas and contains attractive vegetation. There appears to have been some recent management of the scrub in some parts of the site.</p>
Weddington Meadows	<p><b>Selected: Unconfirmed</b></p> <p>Weddington Meadows SINC is situated to the west of Weddington Village, and to the north of urban Nuneaton. The River Anker flows along the eastern boundary of the site. The site is largely semi-improved neutral grassland that is cut for hay but is not grazed. There are also areas of tall herb vegetation, and a small wooded area. The field is prone to flooding during the winter months. The area is well used by the public, with a public footpath passing through the site, as well as several informal paths.</p> <p>The site qualifies for at least 12 scientific and 12 Community criteria. The most important attribute of the site is the rarity of the MG4 grassland community. Although not a particularly rich example, the sward still contains a diverse range of species typical of this type of grassland including Great Burnet, Meadowsweet, Meadow Buttercup, Meadow Vetchling, Common Sorrel, Lady's Smock, Meadow Foxtail, and Crested Dog's-tail.</p> <p>MG4 grassland is an internationally important habitat. It is listed in annex 1 of the EC Habitats Directive as a habitat of European conservation concern. There is evidence that in the nineteenth century this grassland type was widespread and common in some parts of Britain, particularly in the Midlands and also southern England in the case of flood meadows. In the twentieth century, however, they have declined severely as a result of agricultural improvement, the neglect of common meadow rights and from gravel extraction.</p>
Whittleford Park and Bar Pool Valley	<p><b>Selected: 14/12/2001</b></p>



Whittleford Park and Barpool Valley is a large 45.6ha site. Scrubby woodland and neutral grassland account for the bulk of the vegetation with smaller areas of post industrial acidic grassland, tall herb, standing water, swamp and willow carr. The site is very diverse with 166 species of vascular plants recorded in the current survey.

Whittleford Park and Barpool Valley SINC qualifies for 15 scientific and 17 community criteria from the grassland and marsh criteria set plus 15 scientific and 17 community criteria from the woodland and scrub criteria set. The most important attributes of the site are diversity, size, naturalness, rarity and community value.

### **Diversity**

In terms of vascular plant species diversity this is the most diverse site encountered in the SINC review so far with 166 species recorded in the current survey. This included 23 trees and shrubs; 23 grasses; 4 sedges; 6 rushes 104 herbs and 5 ferns. 12 diurnal Lepidoptera were also recorded including: Chimney Sweeper, Common Blue, Small Copper and Small Heath. The species diversity of the site is largely due to the diversity of habitats present which includes neutral grassland, acid grassland, scrub, woodland, wet woodland, swamp, tall herb and standing water. At least six NVC types are present: W10, W21, W23, S12, MG1 and U1f, a dedicated NVC survey would probably reveal others.

### **Size**

The site is large at 45.6ha. This contains large areas of scrub and neutral grassland. The area of W23 scrub in Gorse Valley is likely to be one of the largest extents of this community in the county.

### **Naturalness**

The vegetation communities have mostly arisen by the natural processes of colonisation and succession. There has been some shrub planting and “wild” flower sowing but this is restricted to relatively small areas of the site only. The grassland areas contain several species associated with unimproved or species-rich semi-improved swards, these are: Early Hair-grass, Heath-grass, Wavy Hair-grass, Mat-grass, Tall Fescue, Field Wood-rush, Cuckooflower, Lesser Knapweed, Common Centaury, Pignut, Meadowsweet, Heath Bedstraw, Lady’s Bedstraw, Hawkweed, Perforate St John’s-wort, Oxeye Daisy, Fairy Flax, Common Bird’s-foot-trefoil, Greater Bird’s-foot-trefoil, Creeping Jenny, Mouse-ear Hawkweed, Sheep’s Sorrel, Great Burnet, Zigzag Clover, Yellow Rattle and Bee Orchid.

	<p><b>Rarity</b>  Several plants which could be described as rare in Warwickshire are present, Early Hair-grass, Heath-grass, Mat-grass, Bee Orchid, Broad-leaved Helleborine and Hairy Wood-rush. Heath-grass and Mat-grass are listed in the provisional “Warwickshire Rare Plants Register”. Sessile Oak has a scattered distribution mainly in the north of the county. The computer mapped flora is quoted in describing the local rarity of the following species. Early Hair-grass is described as “ a local plant widely but unevenly distributed throughout the county.” Bee Orchid is described as “a rare plant of calcareous soils in the south and south-east of the county”. Hairy Wood-rush is described as “an occasional plant in the north-west of the county”. However since the computer mapped flora survey is 50 years out of date the above species are likely to be even rarer now. The NVC communities W23 and U1f are rare in the county, particularly the latter which has not been recorded before. The Common Lizard has a rather restricted distribution in Warwickshire. There appears to be a concentration of records in the northern area of Nuneaton Borough.</p> <p><b>Community Value</b>  The community value of the SINC is great. This is the largest single area of public open space in the borough. The site receives very high visitor numbers as it is surrounded by residential areas and has a large population within walking distance.</p>
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<b>Appendix 1f</b>	
<b>Ancient Woodland</b>	
Brett’s Hall Wood	Ancient & Semi Natural Woodland
Cattles Wood	Ancient Replanted Woodland
Coventry Wood	Ancient & Semi Natural Woodland
Cowley Wood	Ancient Replanted Woodland
New Park Wood	Ancient & Semi Natural Woodland
Dagleys Wood	Ancient & Semi Natural Woodland
Fir Tree Grove	Ancient Replanted Woodland
Kingswood Wood	Ancient & Semi Natural Woodland
Lady Wood	Replanted Ancient Woodland
Lees Wood and Gorsty	Replanted Ancient Woodland

Piece	
Many Lands Wood	Ancient & Semi Natural Woodland
The Rough	Ancient Replanted Woodland
Seeswood Wood	Ancient Replanted Woodland
Spring Kidden/North Woods	Ancient Replanted Woodland
Thorneyfield Wood	Ancient & Semi Natural Woodland
<b>Appendix 1g</b>	
<b>Coventry, Warwickshire &amp; Solihull LBAP</b>	
Built Environment	<p>The urban environment can form a wide variety of habitats relating to their material component, aspect, age and state of dilapidation.</p> <p><b>Associated Priority Species in the Borough:</b></p> <ul style="list-style-type: none"> <li>• Bats</li> <li>• Great Crested Newt</li> <li>• Song Thrush</li> <li>• Water Vole</li> </ul>
Disused Industrial and Railway Land	<p>Many industrial land-uses have a brief existence, but where heavy disturbance ceases and re-development is delayed, semi-natural habitats such as grasslands, wetlands, ruderal habitats, scrub and secondary woodland start to develop and can evolve into highly complicated habitat mosaics.</p> <p>These sites support some of the richest plant communities in the county.</p> <p>Disused railway lines can also act as wildlife corridors and public walkways, often through intensive farmland or heavily built-up areas. Most of these sites fall into the category of Previously Developed or 'brown-field' land, which is viewed as a more acceptable location for new development than 'green-field' land. This creates an extra challenge for the conservation of such sites.</p> <p><b>Associated Priority Species in the Borough:</b></p> <ul style="list-style-type: none"> <li>• Possibly the Great Crested Newt</li> </ul>
Gardens	Combined, gardens form a large habitat for wildlife. In urban areas they can act as wildlife corridors

	<p>between parks, open spaces, allotments, woods and eventually the countryside. In agricultural areas gardens can provide valuable refuges for a variety of wildlife that has come to depend upon both habitats for its survival.</p> <p><b>Associated Priority Species in the Borough:</b></p> <ul style="list-style-type: none"> <li>• Bats</li> <li>• Great Crested Newts</li> <li>• Song Thrush</li> </ul>
Parks and Public Open Space	<p>Parks are important features for local communities, but their ecological value is highly variable. At one extreme is the regularly mown War Memorial Park, Coventry, with recently planted trees and perhaps some limited planting of exotic shrubs. These sites tend to support little of ecological interest but are valuable for a range of recreational activities such as child’s play, dog walking etc. At the other extreme are sites that incorporate a variety of semi- natural habitats such as woodlands, wet- lands, flower-rich grasslands, former wood pasture, tall herb and scrub plus collections of old trees. These latter sites have higher value for wildlife.</p> <p>Some areas of public open space have evolved from more natural landscapes and therefore still retain many historic features such as old Grassland and old trees.</p> <p>Areas of public open space in turn attract interesting wildlife, such as good bird populations (including declining species such as song thrush, linnet, green woodpecker and kestrel), insects associated with dead wood and old trees and a good variety of butterflies, moths, hoverflies and bees attracted by the plentiful flowers at many sites.</p>
Quarries and Gravel Pits	<p>Wherever regular disturbance ceases, semi-natural habitats start to develop and can evolve into highly complicated habitat mosaics, often containing a variety of grass- lands, wetlands, ruderal habitats, scrub and secondary wood- lands. No other land-use in the sub-region has produced so many large, species-rich wild- life sites, or is so uniquely placed to help us create new ones for the future. The number of scarce plant and insect species found at some sites can be remarkable and the best are only matched in the area by the best ancient woods.</p> <p>Yet some of these sites fall into the category of Previously Developed or ‘brown-field’ land, which is viewed as a more acceptable location for new development than ‘green- field’ land.</p>

	<p><b>Associated Priority Species in the Borough:</b></p> <ul style="list-style-type: none"> <li>• Great Crested Newt</li> </ul>
Rivers and Streams	<p>The Tame Catchment takes water from the north-west of the county (as well as much of the W. Midlands) into the Trent, Humber River Leam and North Sea via the Tame and its tributaries (e.g. the Blythe, Cole and Anker). A tiny part of the Thames Catchment also lies within the extreme southern tip of Warwickshire.</p> <p>Watercourses are among the most important wildlife corridors within the intensively farmed local landscapes and within many urban areas. They also contribute much to local landscape character, both through place-names and their physical presence.</p> <p><b>Associated Priority Species in the Borough:</b></p> <ul style="list-style-type: none"> <li>• Great Crested Newt</li> <li>• Bats</li> <li>• Water Vole</li> <li>• White-clawed Crayfish</li> </ul>
Lowland Neutral Grassland	<p>Characteristically, it is botanically species-rich and supports many birds and insects.</p> <p>These habitats are scarce in Warwickshire, and even more so in the Borough, being generally confined to the River Anker Valley.</p>
Hedgerows	<p>Hedgerows are boundary features, dominated by tree and shrub species and used to enclose fields, woods and property. Hedge- rows are typically linked together to create a network of wildlife corridors, often through intensively farmed landscapes that help link other important habitats such as woods, ponds, grasslands and wetlands.</p> <p><b>Associated Priority Species in the Borough:</b></p> <ul style="list-style-type: none"> <li>• Bats</li> <li>• Song Thrush</li> </ul>
Woodlands	<p>Ancient semi- natural woodland (ASNW) is the most biologically important wood-land resource. Woodlands recorded as plantation on ancient wood-land sites (PAWS) were converted wholly or in part to conifer plantations in the 20<sup>th</sup> C. These areas tend to retain features of the original semi- natural</p>

	<p>woodland and remain of high biodiversity value.</p> <p>Plantation woodlands are generally linked with the estate-lands parts of the Warwickshire sub region, where as the secondary semi-natural woodlands are associated with post-industrial sites (gravel and sand extraction, etc.) and poorer quality land not cultivated for agriculture.</p> <p><b>Associated Priority Species in the Borough:</b></p> <ul style="list-style-type: none"> <li>• Bats</li> <li>• Great Crested Newts</li> <li>• Song Thrush</li> </ul>
Bats <sup>15</sup>	<p>From spring to late autumn bats are active. During this time they occupy summer roosts. A summer roost may be home to a small number of males, or, especially during June to August, quite large maternity colonies composing mostly of females and their single pups.</p> <p>Summer roosts are usually found in tree holes or buildings. Bats make use of all sorts of human structures, including houses, churches, farm buildings and bridges. During the winter months insects are in short supply and bats enter hibernation. During this time they need a site that is safe from predators. Such sites are often underground (eg. caves, mines, grottoes) but hibernating bats are also found in wall cavities or substantial tree hollows.</p> <p><b>Current Factors Affecting The Species</b></p> <ul style="list-style-type: none"> <li>• <b>loss of summer roosts</b> -eg. roof repairs, cavity wall insulation, barn conversions, replacement of hanging tiles, replacement of fascia and barge boarding, felling or surgery to trees with holes and crevices; repairs to bridges</li> <li>• <b>loss of hibernation sites</b> - eg. blocking of caves and capping of mines, heating of cellars</li> <li>• <b>loss of and degradation of foraging habitats</b> - eg. changes in land use, loss of woodland, destruction of ponds, reduction and contamination of the insect population by insecticides</li> <li>• <b>loss of linear landscape features</b>, in particular hedgerow removal, which can isolate a colony from</li> </ul>

<sup>15</sup> Barbastrelle, Bechstein's, Brandt's, Brown long-eared bat, Common pipistrelle, Daubenton's, Leisler's, Lesser horseshoe, Nathusius's pipistrelle, Natterer's, Noctule, Serotine, Soprano pipistrelle and Whiskered.

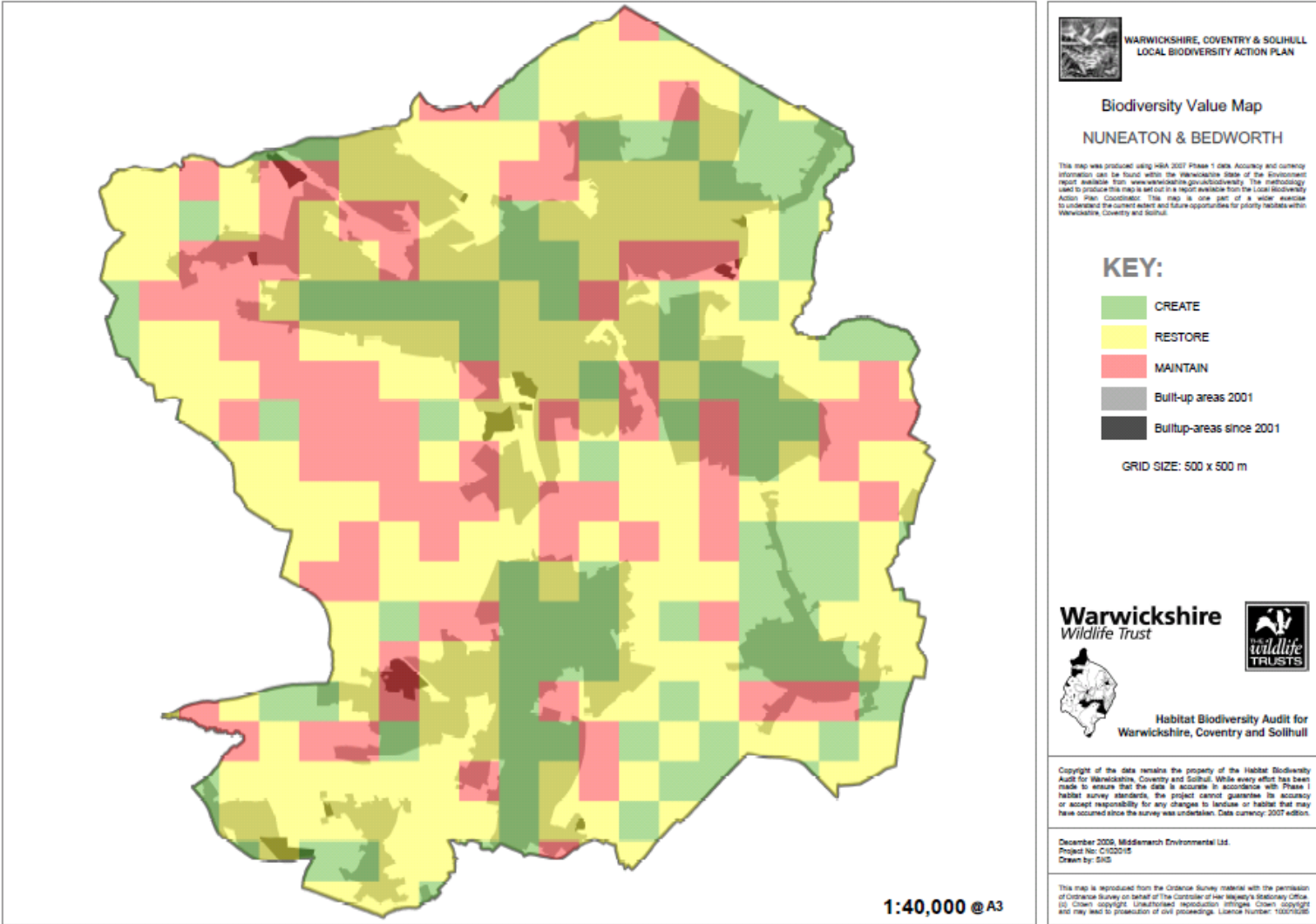
	<p>its main foraging habitat</p> <ul style="list-style-type: none"> <li>• <b>use of timber treatment pesticides</b>, many of which are toxic to bats</li> </ul>
Great Crested Newt	<p>Populations require suitable terrestrial habitat adjacent to their breeding ponds and long-term survival in an area may depend on movement between neighbouring populations (or breeding ponds). Great crested newt dispersal abilities are limited, the maximum dispersal distance is estimated to be up to 1km. Rough grassland, tall herb, scrub and hedgerows around breeding ponds are very important, especially where these create patches or corridors of continuous habitat. They do not cope well in the built environment, intensively farmed countryside or areas subject to regular mowing.</p> <p>Tadpoles and very young newtlets are sensitive to fish predation and so ponds lacking fish or that are seasonally ephemeral can especially provide suitable breeding habitat.</p>
Song Thrush	<p>The song thrush is one of the better known song birds, occurring in wood- lands, hedgerows with abundant trees, parks and gardens throughout the sub-region. It is a partial migrant, with some UK birds moving further south in Europe for the winter, while many Continental birds winter in Britain.</p>
Water Vole	<p>The water vole is now the most threatened land mammal in the UK. It is primarily associated with slow-flowing rivers, streams, ponds, lakes and canals. Water voles are vegetarian, favouring luxuriant marginal / emergent plants and bankside grasses and sedges (although they will eat tree bark, roots and berries in the winter). Water voles live in colonies, with individuals establishing territories along the banks. They inhabit burrow systems dug into the banks. One of the key indicators of the species' presence is burrow entrances which can generally be found throughout the bank and below the water line. Other indicative field signs include droppings / latrines (marking territories) and feeding remains.</p> <p>Once common and widespread in lowland England, the water vole (<i>Arvicola terrestris</i>) has suffered an accelerating decline in numbers and distribution throughout the last century.</p> <p>The most recent national survey, completed in 1998, showed a 67.5% loss in occupied sites and an 88% decline in population in only seven years. The results of surveys in Warwickshire reflect the national trend (Jones, 2001). The main meta-population in the county survives as a number of fragmented colonies in the Coventry / Nuneaton area (on the Rivers Sowe and Anker and their tributaries, plus the Coventry Canal). With the exception of a couple of isolated colonies recorded elsewhere, the water vole appears to have all but disappeared from the rest of the county.</p>
White-clawed Crayfish	<p>The white-clawed crayfish is the only native species of freshwater crayfish in the UK. It lives in a variety</p>

	<p>of aquatic habitats, including streams, rivers, lakes, canals, reservoirs and water-filled quarries, preferring those without too much sediment and with minimal pollution. Shelter e.g. rocks, stones, aquatic vegetation, tree roots and cavities in riverbanks are important for its survival.</p>
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	<p>In Warwickshire, the most notable site for white-clawed crayfish is Ensor's Pool on the outskirts of Nuneaton. Other watercourses known to be supporting the species include the R. Alne (and its tributaries, R. Stour, R. Swift, R. Anker, Cuttle Brook, Shenton Hall Brook, Horn Brook, plus Newbold Quarry.</p>
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# Appendix 2: Nuneaton and Bedworth Biodiversity Value Map



### Appendix 3: Section 41 Natural Environment and Rural Communities Act 2006 - Species of Principal Importance in England

Taxon name	Common name	Species grouping	Taxon group
<i>Bufo bufo</i>	Common Toad	Vertebrates	Amphibian
<i>Epidalea calamita</i>	Natterjack Toad	Vertebrates	Amphibian
<i>Pelophylax lessonae</i>	Pool Frog	Vertebrates	Amphibian
<i>Triturus cristatus</i>	Great Crested Newt	Vertebrates	Amphibian
<i>Acrocephalus paludicola</i>	Aquatic Warbler	Vertebrates	Bird
<i>Acrocephalus palustris</i>	Marsh Warbler	Vertebrates	Bird
<i>Alauda arvensis subsp. arvensis</i>	Sky Lark	Vertebrates	Bird
<i>Anser albifrons subsp. albifrons</i>	European Greater White-fronted Goose	Vertebrates	Bird
<i>Anthus trivialis</i>	Tree Pipit	Vertebrates	Bird
<i>Aythya marila</i>	Greater Scaup	Vertebrates	Bird
<i>Botaurus stellaris</i>	Bittern	Vertebrates	Bird
<i>Branta bernicla subsp. bernicla</i>	Dark-bellied Brent Goose	Vertebrates	Bird
<i>Burhinus oedicephalus</i>	Stone-curlew	Vertebrates	Bird
<i>Caprimulgus europaeus</i>	Nightjar	Vertebrates	Bird
<i>Carduelis cabaret</i>	Lesser Redpoll	Vertebrates	Bird
<i>Carduelis cannabina subsp. autochthona/cannabina</i>	Linnet	Vertebrates	Bird
<i>Carduelis flavirostris subsp. bensonorum/pipilans</i>	Twite	Vertebrates	Bird
<i>Circus cyaneus</i>	Hen Harrier	Vertebrates	Bird
<i>Coccothraustes coccothraustes</i>	Hawfinch	Vertebrates	Bird
<i>Crex crex</i>	Corn Crake	Vertebrates	Bird
<i>Cuculus canorus</i>	Common Cuckoo	Vertebrates	Bird
<i>Cygnus columbianus subsp. bewickii</i>	Bewick's Swan (Tundra Swan)	Vertebrates	Bird
<i>Dendrocopos minor subsp. comminutus</i>	Lesser Spotted Woodpecker	Vertebrates	Bird
<i>Emberiza cirlus</i>	Cirl Bunting	Vertebrates	Bird
<i>Emberiza citrinella</i>	Yellowhammer	Vertebrates	Bird

<b>Taxon name</b>	<b>Common name</b>	<b>Species grouping</b>	<b>Taxon group</b>
<i>Emberiza schoeniclus</i>	Reed Bunting	Vertebrates	Bird
<i>Lagopus lagopus subsp. Scotica</i>	Red Grouse	Vertebrates	Bird
<i>Larus argentatus subsp. argenteus</i>	Herring Gull	Vertebrates	Bird
<i>Limosa limosa subsp. limosa</i>	Black-tailed Godwit	Vertebrates	Bird
<i>Locustella luscinioides</i>	Savi's Warbler	Vertebrates	Bird
<i>Locustella naevia</i>	Grasshopper Warbler	Vertebrates	Bird
<i>Lullula arborea</i>	Wood Lark	Vertebrates	Bird
<i>Melanitta nigra</i>	Common Scoter	Vertebrates	Bird
<i>Emberiza calandra subsp. calandra</i>	Corn Bunting	Vertebrates	Bird
<i>Motacilla flava subsp. flavissima</i>	Yellow Wagtail	Vertebrates	Bird
<i>Muscicapa striata</i>	Spotted Flycatcher	Vertebrates	Bird
<i>Numenius arquata</i>	Curlew	Vertebrates	Bird
<i>Poecile montanus subsp. kleinschimdti</i>	Willow Tit	Vertebrates	Bird
<i>Poecile palustris subsp. palustris/dresseri</i>	Marsh Tit	Vertebrates	Bird
<i>Passer domesticus</i>	House Sparrow	Vertebrates	Bird
<i>Passer montanus</i>	Tree Sparrow	Vertebrates	Bird
<i>Perdix perdix</i>	Grey Partridge	Vertebrates	Bird
<i>Phylloscopus sibilatrix</i>	Wood Warbler	Vertebrates	Bird
<i>Prunella modularis subsp. occidentalis</i>	Dunnock (Hedge Accentor)	Vertebrates	Bird
<i>Puffinus mauretanicus</i>	Balearic Shearwater	Vertebrates	Bird
<i>Pyrrhula pyrrhula subsp. pileata</i>	Bullfinch	Vertebrates	Bird
<i>Sterna dougallii</i>	Roseate Tern	Vertebrates	Bird
<i>Streptopelia turtur</i>	Turtle Dove	Vertebrates	Bird
<i>Sturnus vulgaris subsp. vulgaris</i>	Starling	Vertebrates	Bird
<i>Tetrao tetrix subsp. britannicus</i>	Black Grouse	Vertebrates	Bird
<i>Turdus philomelos subsp. clarkei</i>	Song Thrush	Vertebrates	Bird
<i>Turdus torquatus</i>	Ring Ouzel	Vertebrates	Bird
<i>Vanellus vanellus</i>	Lapwing	Vertebrates	Bird
<i>Balaenoptera acutorostrata</i>	Minke Whale	Vertebrates	Cetacean

<b>Taxon name</b>	<b>Common name</b>	<b>Species grouping</b>	<b>Taxon group</b>
<i>Balaenoptera borealis</i>	Sei Whale	Vertebrates	Cetacean
<i>Balaenoptera physalus</i>	Fin Whale	Vertebrates	Cetacean
<i>Delphinus delphis</i>	Common Dolphin	Vertebrates	Cetacean
<i>Eubalaena glacialis</i>	Northern Right Whale	Vertebrates	Cetacean
<i>Globicephala melas</i>	Long-finned Pilot Whale	Vertebrates	Cetacean
<i>Grampus griseus</i>	Risso's Dolphin	Vertebrates	Cetacean
<i>Lagenorhynchus acutus</i>	Atlantic White-sided Dolphin	Vertebrates	Cetacean
<i>Lagenorhynchus albirostris</i>	White-beaked Dolphin	Vertebrates	Cetacean
<i>Mesoplodon bidens</i>	Sowerby's Beaked Whale	Vertebrates	Cetacean
<i>Mesoplodon mirus</i>	True's Beaked Whale	Vertebrates	Cetacean
<i>Orcinus orca</i>	Killer Whale	Vertebrates	Cetacean
<i>Phocoena phocoena</i>	Harbour Porpoise	Vertebrates	Cetacean
<i>Physeter catodon</i>	Sperm Whale	Vertebrates	Cetacean
<i>Tursiops truncatus</i>	Bottlenosed Dolphin	Vertebrates	Cetacean
<i>Ziphius cavirostris</i>	Cuvier's Beaked Whale	Vertebrates	Cetacean
<i>Acipenser sturio</i>	Common Sturgeon	Vertebrates	Fish - bony
<i>Alosa alosa</i>	Allis Shad	Vertebrates	Fish - bony
<i>Alosa fallax</i>	Twaite Shad	Vertebrates	Fish - bony
<i>Ammodytes marinus</i>	Lesser Sandeel	Vertebrates	Fish - bony
<i>Anguilla anguilla</i>	European Eel	Vertebrates	Fish - bony
<i>Aphanopus carbo</i>	Black Scabbardfish	Vertebrates	Fish - bony
<i>Clupea harengus</i>	Herring	Vertebrates	Fish - bony
<i>Cobitis taenia</i>	Spined Loach	Vertebrates	Fish - bony
<i>Coregonus albula</i>	Vendace	Vertebrates	Fish - bony
<i>Coregonus lavaretus</i>	Whitefish (Powan, Gwyniad or Schelly)	Vertebrates	Fish - bony
<i>Coryphaenoides rupestris</i>	Roundnose Grenadier	Vertebrates	Fish - bony
<i>Gadus morhua</i>	Cod	Vertebrates	Fish - bony
<i>Hippocampus guttulatus</i>	Long-snouted Seahorse	Vertebrates	Fish - bony
<i>Hippocampus hippocampus</i>	Short-snouted Seahorse	Vertebrates	Fish - bony

<b>Taxon name</b>	<b>Common name</b>	<b>Species grouping</b>	<b>Taxon group</b>
<i>Hippoglossus hippoglossus</i>	Atlantic Halibut	Vertebrates	Fish - bony
<i>Hoplostethus atlanticus</i>	Orange Roughy	Vertebrates	Fish - bony
<i>Lophius piscatorius</i>	Sea Monkfish	Vertebrates	Fish - bony
<i>Lota lota</i>	Burbot	Vertebrates	Fish - bony
<i>Merlangius merlangus</i>	Whiting	Vertebrates	Fish - bony
<i>Merluccius merluccius</i>	European Hake	Vertebrates	Fish - bony
<i>Micromesistius poutassou</i>	Blue Whiting	Vertebrates	Fish - bony
<i>Molva dypterygia</i>	Blue Ling	Vertebrates	Fish - bony
<i>Molva molva</i>	Ling	Vertebrates	Fish - bony
<i>Osmerus eperlanus</i>	Smelt (Sparling)	Vertebrates	Fish - bony
<i>Pleuronectes platessa</i>	Plaice	Vertebrates	Fish - bony
<i>Reinhardtius hippoglossoides</i>	Greenland Halibut	Vertebrates	Fish - bony
<i>Salmo salar</i>	Atlantic Salmon	Vertebrates	Fish - bony
<i>Salmo trutta</i>	Brown/Sea Trout	Vertebrates	Fish - bony
<i>Salvelinus alpinus</i>	Arctic Charr	Vertebrates	Fish - bony
<i>Scomber scombrus</i>	Mackerel	Vertebrates	Fish - bony
<i>Solea solea</i>	Common Sole	Vertebrates	Fish - bony
<i>Thunnus thynnus</i>	Blue-fin Tuna	Vertebrates	Fish - bony
<i>Trachurus trachurus</i>	Horse Mackerel	Vertebrates	Fish - bony
<i>Lampetra fluviatilis</i>	River Lamprey	Vertebrates	Fish - jawless
<i>Petromyzon marinus</i>	Sea Lamprey	Vertebrates	Fish - jawless
<i>Arvicola terrestris</i>	Water Vole	Vertebrates	Mammal
<i>Barbastella barbastellus</i>	Barbastelle Bat	Vertebrates	Mammal
<i>Erinaceus europaeus</i>	Hedgehog	Vertebrates	Mammal
<i>Lepus europaeus</i>	Brown Hare	Vertebrates	Mammal
<i>Lepus timidus</i>	Mountain Hare	Vertebrates	Mammal
<i>Lutra lutra</i>	Otter	Vertebrates	Mammal
<i>Martes martes</i>	Pine Marten	Vertebrates	Mammal
<i>Micromys minutus</i>	Harvest Mouse	Vertebrates	Mammal

<b>Taxon name</b>	<b>Common name</b>	<b>Species grouping</b>	<b>Taxon group</b>
<i>Muscardinus avellanarius</i>	Dormouse	Vertebrates	Mammal
<i>Mustela putorius</i>	Polecat	Vertebrates	Mammal
<i>Myotis bechsteinii</i>	Bechstein`s Bat	Vertebrates	Mammal
<i>Nyctalus noctula</i>	Noctule	Vertebrates	Mammal
<i>Phoca vitulina</i>	Common Seal (Eastern Atlantic Harbour Seal)	Vertebrates	Mammal
<i>Pipistrellus pygmaeus</i>	Soprano Pipistrelle	Vertebrates	Mammal
<i>Plecotus auritus</i>	Brown Long-eared bat	Vertebrates	Mammal
<i>Rhinolophus ferrumequinum</i>	Greater Horseshoe Bat	Vertebrates	Mammal
<i>Rhinolophus hipposideros</i>	Lesser Horseshoe Bat	Vertebrates	Mammal
<i>Sciurus vulgaris</i>	Red Squirrel	Vertebrates	Mammal
<i>Anguis fragilis</i>	Slow-worm	Vertebrates	Reptile
<i>Coronella austriaca</i>	Smooth Snake	Vertebrates	Reptile
<i>Lacerta agilis</i>	Sand Lizard	Vertebrates	Reptile
<i>Zootoca vivipara</i>	Common Lizard	Vertebrates	Reptile
<i>Natrix natrix</i>	Grass Snake	Vertebrates	Reptile
<i>Vipera berus</i>	Adder	Vertebrates	Reptile
<i>Centrophorus granulosus</i>	Gulper Shark	Vertebrates	Shark/Skate/Ray
<i>Centrophorus squamosus</i>	Leafscrapper Shark	Vertebrates	Shark/Skate/Ray
<i>Centroscymnus coelolepsis</i>	Portuguese Dogfish	Vertebrates	Shark/Skate/Ray
<i>Cetorhinus maximus</i>	Basking Shark	Vertebrates	Shark/Skate/Ray
<i>Dalatias licha</i>	Kitefin Shark	Vertebrates	Shark/Skate/Ray
<i>Dipturus batis</i>	Common Skate	Vertebrates	Shark/Skate/Ray
<i>Galeorhinus galeus</i>	Tope Shark	Vertebrates	Shark/Skate/Ray
<i>Isurus oxyrinchus</i>	Shortfin Mako	Vertebrates	Shark/Skate/Ray
<i>Lamna nasus</i>	Porbeagle Shark	Vertebrates	Shark/Skate/Ray
<i>Prionace glauca</i>	Blue Shark	Vertebrates	Shark/Skate/Ray
<i>Raja undulata</i>	Undulate Ray	Vertebrates	Shark/Skate/Ray
<i>Rostroraja alba</i>	White or Bottlenosed Skate	Vertebrates	Shark/Skate/Ray



<b>Taxon name</b>	<b>Common name</b>	<b>Species grouping</b>	<b>Taxon group</b>
<i>Squalus acanthias</i>	Spiny Dogfish	Vertebrates	Shark/Skate/Ray
<i>Caretta caretta</i>	Loggerhead Turtle	Vertebrates	Turtle
<i>Dermochelys coriacea</i>	Leatherback Turtle	Vertebrates	Turtle
<i>Anergates atratulus</i>	Dark Guest Ant	Invertebrates	Ant
<i>Formica exsecta</i>	Narrow-headed Ant	Invertebrates	Ant
<i>Formica pratensis</i>	Black-Backed Meadow Ant	Invertebrates	Ant
<i>Formica rufibarbis</i>	Red Barbed Ant	Invertebrates	Ant
<i>Formicoxenus nitidulus</i>	Shining Guest Ant	Invertebrates	Ant
<i>Tapinoma erraticum</i>	Erratic Ant	Invertebrates	Ant
<i>Temnothorax interruptus</i>	Long-spined Ant	Invertebrates	Ant
<i>Andrena ferox</i>	Oak Mining Bee	Invertebrates	Bee
<i>Andrena tarsata</i>	Tormentil Mining Bee	Invertebrates	Bee
<i>Anthophora retusa</i>	Potter Flower Bee	Invertebrates	Bee
<i>Bombus humilis</i>	Brown-Banded Carder Bee	Invertebrates	Bee
<i>Bombus muscorum</i>	Moss Carder Bee	Invertebrates	Bee
<i>Bombus ruderarius</i>	Red-shanked Carder-bee	Invertebrates	Bee
<i>Bombus ruderatus</i>	Large Garden Bumblebee	Invertebrates	Bee
<i>Bombus subterraneus</i>	Short Haired Bumblebee	Invertebrates	Bee
<i>Bombus sylvarum</i>	Shrill Carder Bee	Invertebrates	Bee
<i>Colletes floralis</i>	Northern Colletes	Invertebrates	Bee
<i>Colletes halophilus</i>	Sea-aster Colletes Bee	Invertebrates	Bee
<i>Eucera longicornis</i>	Long-horned Bee	Invertebrates	Bee
<i>Lasioglossum angusticeps</i>	A Solitary Bee	Invertebrates	Bee
<i>Nomada armata</i>	A Cuckoo Bee	Invertebrates	Bee
<i>Nomada errans</i>	A Cuckoo Bee	Invertebrates	Bee
<i>Osmia parietina</i>	Wall Mason Bee	Invertebrates	Bee
<i>Osmia xanthomelana</i>	Large Mason Bee	Invertebrates	Bee
<i>Agabus brunneus</i>	Sharp's Diving Beetle	Invertebrates	Beetle
<i>Agonum scitulum</i>	A Ground Beetle	Invertebrates	Beetle

<b>Taxon name</b>	<b>Common name</b>	<b>Species grouping</b>	<b>Taxon group</b>
<i>Amara famelica</i>	Early Sunshiner	Invertebrates	Beetle
<i>Amara fusca</i>	Wormwood Moonshiner	Invertebrates	Beetle
<i>Ampedus rufipennis</i>	Red-horned Cardinal Click Beetle	Invertebrates	Beetle
<i>Anisodactylus nemorivagus</i>	Heath Short-spur	Invertebrates	Beetle
<i>Anisodactylus poeciloides</i>	Saltmarsh Short-spur	Invertebrates	Beetle
<i>Anostirus castaneus</i>	Chestnut Coloured Click Beetle	Invertebrates	Beetle
<i>Bagous nodulosus</i>	Flowering Rush Weevil	Invertebrates	Beetle
<i>Bembidion humerale</i>	Thorne Pin-palp	Invertebrates	Beetle
<i>Bembidion quadripustulatum</i>	Scarce Four-dot Pin-palp	Invertebrates	Beetle
<i>Bembidion testaceum</i>	Pale Pin-palp	Invertebrates	Beetle
<i>Bidessus unistriatus</i>	One-grooved Diving Beetle	Invertebrates	Beetle
<i>Brachinus sclopeta</i>	Streaked Bombardier Beetle	Invertebrates	Beetle
<i>Bracteon argenteolum</i>	Silt Silver-spot	Invertebrates	Beetle
<i>Byctiscus populi</i>	Poplar Leaf-rolling Weevil	Invertebrates	Beetle
<i>Calosoma inquisitor</i>	Caterpillar-Hunter	Invertebrates	Beetle
<i>Carabus intricatus</i>	Blue Ground Beetle	Invertebrates	Beetle
<i>Carabus monilis</i>	A Ground Beetle	Invertebrates	Beetle
<i>Chlaenius tristis</i>	Black Night-runner	Invertebrates	Beetle
<i>Chrysolina graminis</i>	Tansy Beetle	Invertebrates	Beetle
<i>Cylindera germanica</i>	Cliff Tiger Beetle	Invertebrates	Beetle
<i>Cicindela hybrida</i>	Northern Dune Tiger Beetle	Invertebrates	Beetle
<i>Cicindela sylvatica</i>	Heath Tiger Beetle	Invertebrates	Beetle
<i>Cryptocephalus coryli</i>	Hazel Pot Beetle	Invertebrates	Beetle
<i>Cryptocephalus decemmaculatus</i>	Ten-spotted Pot Beetle	Invertebrates	Beetle
<i>Cryptocephalus exiguus</i>	Pashford Pot Beetle	Invertebrates	Beetle
<i>Cryptocephalus nitidulus</i>	Shining Pot Beetle	Invertebrates	Beetle
<i>Cryptocephalus primarius</i>	Rock-rose Pot Beetle	Invertebrates	Beetle
<i>Cryptocephalus punctiger</i>	A Pot Beetle	Invertebrates	Beetle
<i>Cryptocephalus sexpunctatus</i>	Six-spotted Pot Beetle	Invertebrates	Beetle



<b>Taxon name</b>	<b>Common name</b>	<b>Species grouping</b>	<b>Taxon group</b>
<i>Curimopsis nigrita</i>	Mire Pill-beetle	Invertebrates	Beetle
<i>Donacia aquatica</i>	Zircon Reed Beetle	Invertebrates	Beetle
<i>Donacia bicolora</i>	Two-tone Reed Beetle	Invertebrates	Beetle
<i>Philorhizus quadrisignatus</i>	A Ground Beetle	Invertebrates	Beetle
<i>Philorhizus vectensis</i>	A Ground Beetle	Invertebrates	Beetle
<i>Exapion genistae</i>	Petty Whin Weevil	Invertebrates	Beetle
<i>Gnorimus nobilis</i>	Noble Chafer	Invertebrates	Beetle
<i>Gnorimus variabilis</i>	Variable Chafer	Invertebrates	Beetle
<i>Graphoderus zonatus</i>	Spangled Water Beetle	Invertebrates	Beetle
<i>Harpalus froelichii</i>	Brush-thighed Seed-eater	Invertebrates	Beetle
<i>Harpalus honestus</i>	St. Bees Seed-eater	Invertebrates	Beetle
<i>Harpalus melancholicus</i>	A Seed-eater Ground Beetle	Invertebrates	Beetle
<i>Helophorus laticollis</i>	New Forest Mud Beetle	Invertebrates	Beetle
<i>Hydrochus nitidicollis</i>	Gravel Water Beetle	Invertebrates	Beetle
<i>Hydroporus necopinatus subsp. roni</i>	Ron's Diving Beetle	Invertebrates	Beetle
<i>Hydroporus rufifrons</i>	Oxbow Diving Beetle	Invertebrates	Beetle
<i>Laccophilus poecilus</i>	Sussex Diving Beetle	Invertebrates	Beetle
<i>Lacon querceus</i>	Oak Click Beetle	Invertebrates	Beetle
<i>Lebia cyanocephala</i>	Blue Plunderer	Invertebrates	Beetle
<i>Limoniscus violaceus</i>	Violet Click Beetle	Invertebrates	Beetle
<i>Lucanus cervus</i>	Stag Beetle	Invertebrates	Beetle
<i>Malachius aeneus</i>	Scarlet Malachite Beetle	Invertebrates	Beetle
<i>Megapenthes lugens</i>	A Click Beetle	Invertebrates	Beetle
<i>Melanapion minimum</i>	Sallow Guest Weevil	Invertebrates	Beetle
<i>Melandrya barbata</i>	Bearded False Darkling Beetle	Invertebrates	Beetle
<i>Melanotus punctolineatus</i>	Sandwich Click Beetle	Invertebrates	Beetle
<i>Meloe proscarabaeus</i>	Black Oil Beetle	Invertebrates	Beetle
<i>Meloe rugosus</i>	Rough Oil Beetle	Invertebrates	Beetle
<i>Meloe violaceus</i>	Violet Oil Beetle	Invertebrates	Beetle

<b>Taxon name</b>	<b>Common name</b>	<b>Species grouping</b>	<b>Taxon group</b>
<i>Meotica anglica</i>	A River Shingle Beetle	Invertebrates	Beetle
<i>Oberea oculata</i>	Eyed Longhorn beetle	Invertebrates	Beetle
<i>Ochthebius poweri</i>	Rockface Beetle	Invertebrates	Beetle
<i>Ophonus laticollis</i>	Set-aside Downy-back	Invertebrates	Beetle
<i>Ophonus melletii</i>	Mellet's Downy-back	Invertebrates	Beetle
<i>Ophonus puncticollis</i>	A Downy-back Ground Beetle	Invertebrates	Beetle
<i>Ophonus stictus</i>	Oolite Downy-back	Invertebrates	Beetle
<i>Panagaeus cruxmajor</i>	Crucifix Ground Beetle	Invertebrates	Beetle
<i>Platycis cosnardi</i>	Cosnard's Net-winged Beetle	Invertebrates	Beetle
<i>Poecilus kugelanni</i>	Kugelann's Green Clock	Invertebrates	Beetle
<i>Pogonus luridipennis</i>	Yellow Pogonus	Invertebrates	Beetle
<i>Psylliodes luridipennis</i>	Lundy Cabbage Flea Beetle	Invertebrates	Beetle
<i>Orchestes testaceus</i>	Alder Flea Weevil	Invertebrates	Beetle
<i>Stenus longitarsis</i>	A Camphor Beetle	Invertebrates	Beetle
<i>Synaptus filiformis</i>	Hairy Click Beetle	Invertebrates	Beetle
<i>Lophopus crystallinus</i>	Crystal Moss Animal	Invertebrates	Bryozoan
<i>Victorella pavidata</i>	Trembling Sea-mat	Invertebrates	Bryozoan
<i>Chlorita viridula</i>	A Leafhopper	Invertebrates	Bug
<i>Cicadetta montana</i>	New Forest Cicada	Invertebrates	Bug
<i>Doratura impudica</i>	Large Dune Leafhopper	Invertebrates	Bug
<i>Eurysa douglasi</i>	Chalk Planthopper	Invertebrates	Bug
<i>Euscelis venosus</i>	Carline Thistle Leafhopper	Invertebrates	Bug
<i>Hydrometra gracilentata</i>	Lesser Water Measurer	Invertebrates	Bug
<i>Macrosteles cyaneus</i>	Pondweed Leafhopper	Invertebrates	Bug
<i>Physatocheila smreczynskii</i>	Apple Lace-bug	Invertebrates	Bug
<i>Ribautodelphax imitans</i>	Tall Fescue Planthopper	Invertebrates	Bug
<i>Saldula setulosa</i>	Hairy Shore-bug	Invertebrates	Bug
<i>Argynnis adippe</i>	High Brown Fritillary	Invertebrates	Butterfly
<i>Aricia artaxerxes</i>	Northern Brown Argus	Invertebrates	Butterfly

<b>Taxon name</b>	<b>Common name</b>	<b>Species grouping</b>	<b>Taxon group</b>
<i>Boloria euphrosyne</i>	Pearl-bordered Fritillary	Invertebrates	Butterfly
<i>Boloria selene</i>	Small Pearl-bordered Fritillary	Invertebrates	Butterfly
<i>Coenonympha pamphilus</i>	Small Heath	Invertebrates	Butterfly
<i>Coenonympha tullia</i>	Large Heath	Invertebrates	Butterfly
<i>Cupido minimus</i>	Small Blue	Invertebrates	Butterfly
<i>Erebia epiphron</i>	Mountain Ringlet	Invertebrates	Butterfly
<i>Erynnis tages</i>	Dingy Skipper	Invertebrates	Butterfly
<i>Euphydryas aurinia</i>	Marsh Fritillary	Invertebrates	Butterfly
<i>Hamearis lucina</i>	Duke of Burgundy	Invertebrates	Butterfly
<i>Hipparchia semele</i>	Grayling	Invertebrates	Butterfly
<i>Lasiommata megera</i>	Wall	Invertebrates	Butterfly
<i>Leptidea sinapis</i>	Wood White	Invertebrates	Butterfly
<i>Limenitis camilla</i>	White Admiral	Invertebrates	Butterfly
<i>Maculinea arion</i>	Large Blue Butterfly	Invertebrates	Butterfly
<i>Melitaea cinxia</i>	Glanville Fritillary	Invertebrates	Butterfly
<i>Melitaea athalia</i>	Heath Fritillary	Invertebrates	Butterfly
<i>Plebejus argus</i>	Silver-studded Blue	Invertebrates	Butterfly
<i>Pyrgus malvae</i>	Grizzled Skipper	Invertebrates	Butterfly
<i>Satyrium w-album</i>	White Letter Hairstreak	Invertebrates	Butterfly
<i>Thecla betulae</i>	Brown Hairstreak	Invertebrates	Butterfly
<i>Thymelicus acteon</i>	Lulworth Skipper	Invertebrates	Butterfly
<i>Glossosoma intermedium</i>	Small Grey Sedge	Invertebrates	Caddisfly
<i>Hagenella clathrata</i>	Window Winged Sedge	Invertebrates	Caddisfly
<i>Hydropsyche bulgaromanorum</i>	Scarce Grey Flag	Invertebrates	Caddisfly
<i>Ironoquia dubia</i>	Scarce Brown Sedge	Invertebrates	Caddisfly
<i>Nothogeophilus turki</i>	Turk's Earth-centipede	Invertebrates	Centipede
<i>Amphianthus dohrnii</i>	Sea-fan Anemone	Invertebrates	Cnidarian
<i>Edwardsia timida</i>	Timid Burrowing Anemone	Invertebrates	Cnidarian
<i>Edwardsia ivelli</i>	Ivell's Sea Anemone	Invertebrates	Cnidarian

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<i>Eunicella verrucosa</i>	Pink Sea-fan	Invertebrates	Cnidarian
<i>Funiculina quadrangularis</i>	Tall Sea Pen	Invertebrates	Cnidarian
<i>Haliclystus auricula</i>	A Stalked Jellyfish	Invertebrates	Cnidarian
<i>Leptopsammia pruvoti</i>	Sunset Cup Coral	Invertebrates	Cnidarian
<i>Lucernariopsis campanulata</i>	A Stalked Jellyfish	Invertebrates	Cnidarian
<i>Lucernariopsis cruxmelitensis</i>	A Stalked Jellyfish	Invertebrates	Cnidarian
<i>Nematostella vectensis</i>	Starlet Sea Anemone	Invertebrates	Cnidarian
<i>Pachycordyle navis</i>	Brackish Hydroid	Invertebrates	Cnidarian
<i>Decticus verrucivorus</i>	Wart-biter Bush Cricket	Invertebrates	Cricket
<i>Gryllotalpa gryllotalpa</i>	Mole Cricket	Invertebrates	Cricket
<i>Gryllus campestris</i>	Field Cricket	Invertebrates	Cricket
<i>Austropotamobius pallipes</i>	White-clawed Crayfish	Invertebrates	Crustacean
<i>Gammarus insensibilis</i>	Lagoon Sand Shrimp	Invertebrates	Crustacean
<i>Mitella pollicipes</i>	Gooseneck Barnacle	Invertebrates	Crustacean
<i>Niphargus glenniei</i>	British Cave Shrimp	Invertebrates	Crustacean
<i>Palinurus elephas</i>	Crayfish, Crawfish or Spiny Lobster	Invertebrates	Crustacean
<i>Triops cancriformis</i>	Tadpole Shrimp	Invertebrates	Crustacean
<i>Coenagrion mercuriale</i>	Southern Damselfly	Invertebrates	Damselfly
<i>Aeshna isosceles</i>	Norfolk Hawker	Invertebrates	Dragonfly
<i>Amiota variegata</i>	Variegated Fruit-fly	Invertebrates	Fly
<i>Asilus crabroniformis</i>	Hornet Robberfly	Invertebrates	Fly
<i>Asindulum nigrum</i>	Black Fungus Gnat	Invertebrates	Fly
<i>Bombylius minor</i>	Heath Bee-fly	Invertebrates	Fly
<i>Callicera spinolae</i>	Golden Hoverfly	Invertebrates	Fly
<i>Campsicnemus magius</i>	Fancy-legged Fly	Invertebrates	Fly
<i>Chrysotoxum octomaculatum</i>	Broken-banded Wasp-hoverfly	Invertebrates	Fly
<i>Clorismia rustica</i>	Southern Silver Stiletto-fly	Invertebrates	Fly
<i>Dolichopus laticola</i>	Broads Long-legged Fly	Invertebrates	Fly
<i>Dolichopus nigripes</i>	Bure Long-legged Fly	Invertebrates	Fly

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<i>Doros profuges</i>	Phantom Hoverfly	Invertebrates	Fly
<i>Dorycera graminum</i>	Picture Winged Fly	Invertebrates	Fly
<i>Dorylomorpha clavifemora</i>	Clubbed Big-headed Fly	Invertebrates	Fly
<i>Empis limata</i>	English Assassin Fly	Invertebrates	Fly
<i>Eristalis cryptarum</i>	Bog Hoverfly	Invertebrates	Fly
<i>Gnophomyia elsneri</i>	Royal Splinter Cranefly	Invertebrates	Fly
<i>Idiocera sexguttata</i>	Six-spotted Cranefly	Invertebrates	Fly
<i>Lipara similis</i>	Cigarillo Gall-fly	Invertebrates	Fly
<i>Lipsothrix errans</i>	Northern Yellow Splinter	Invertebrates	Fly
<i>Lipsothrix nervosa</i>	Southern Yellow Splinter	Invertebrates	Fly
<i>Lipsothrix nigristigma</i>	Scarce Yellow Splinter	Invertebrates	Fly
<i>Myolepta potens</i>	Western Wood-vase Hoverfly	Invertebrates	Fly
<i>Neoempheria lineola</i>	A Fungus-gnat	Invertebrates	Fly
<i>Odontomyia hydroleon</i>	Barred Green Colonel	Invertebrates	Fly
<i>Phaonia jaroschewskii</i>	Hairy Canary	Invertebrates	Fly
<i>Potamanthus luteus</i>	Yellow Mayfly	Invertebrates	Fly
<i>Rhabdomastix japonica</i>	River-shore Cranefly	Invertebrates	Fly
<i>Salticella fasciata</i>	Dune Snail-killing Fly	Invertebrates	Fly
<i>Thyridanthrax fenestratus</i>	Mottled Bee-Fly	Invertebrates	Fly
<i>Stethophyma grossum</i>	Large Marsh Grasshopper	Invertebrates	Grasshopper
<i>Nigrobaetis niger</i>	Iron Blue Mayfly	Invertebrates	Mayfly
<i>Metaiulus pratensis</i>	Kentish Snake Millipede	Invertebrates	Millipede
<i>Polyzonium germanicum</i>	Boring Millipede	Invertebrates	Millipede
<i>Trachysphaera lobata</i>	Sand Pill-millipede	Invertebrates	Millipede
<i>Anisus vorticulus</i>	Little Whirlpool Ram`s-horn Snail	Invertebrates	Mollusc
<i>Atrina fragilis</i>	Fan Mussel	Invertebrates	Mollusc
<i>Gyraulus acronicus</i>	Thames Ram`s-horn Snail	Invertebrates	Mollusc
<i>Heleobia stagnorum</i>	Lagoon Spire Snail	Invertebrates	Mollusc
<i>Margaritifera margaritifera</i>	Freshwater Pearl Mussel	Invertebrates	Mollusc

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<i>Mercuria similis</i>	Swollen Spire Snail	Invertebrates	Mollusc
<i>Omphiscola glabra</i>	Mud Snail	Invertebrates	Mollusc
<i>Ostrea edulis</i>	Native Oyster	Invertebrates	Mollusc
<i>Pisidium tenuilineatum</i>	Fine-lined Pea Mussel	Invertebrates	Mollusc
<i>Pseudanodonta complanata</i>	Depressed River Mussel	Invertebrates	Mollusc
<i>Quickella arenaria</i>	Sandbowl Snail	Invertebrates	Mollusc
<i>Segmentina nitida</i>	The Shining Ram`s-horn Snail	Invertebrates	Mollusc
<i>Sphaerium solidum</i>	Witham Orb Mussel	Invertebrates	Mollusc
<i>Tenellia adspersa</i>	Lagoon Sea Slug	Invertebrates	Mollusc
<i>Truncatellina cylindrica</i>	Cylindrical Whorl Snail	Invertebrates	Mollusc
<i>Valvata macrostoma</i>	Large-mouthed Valve Snail	Invertebrates	Mollusc
<i>Vertigo angustior</i>	Narrow-mouthed Whorl Snail	Invertebrates	Mollusc
<i>Vertigo genesii</i>	Round-mouthed Whorl Snail	Invertebrates	Mollusc
<i>Vertigo geyeri</i>	Geyer's Whorl Snail	Invertebrates	Mollusc
<i>Vertigo moulinsiana</i>	Desmoulin's Whorl Snail	Invertebrates	Mollusc
<i>Acosmetia caliginosa</i>	Reddish Buff	Invertebrates	Moth
<i>Acronicta psi</i>	Grey Dagger	Invertebrates	Moth
<i>Acronicta rumicis</i>	Knot Grass	Invertebrates	Moth
<i>Adscita statices</i>	The Forester	Invertebrates	Moth
<i>Agonopterix atomella</i>	Greenweed Flat-body Moth	Invertebrates	Moth
<i>Agonopterix capreolella</i>	Fuscous Flat-body Moth	Invertebrates	Moth
<i>Agrochola helvola</i>	Flounced Chestnut	Invertebrates	Moth
<i>Agrochola litura</i>	Brown-spot Pinion	Invertebrates	Moth
<i>Agrochola lychnidis</i>	Beaded Chestnut	Invertebrates	Moth
<i>Agrotera nemoralis</i>	Beautiful Pearl	Invertebrates	Moth
<i>Aleucis distinctata</i>	Sloe Carpet	Invertebrates	Moth
<i>Allophytes oxyacanthae</i>	Green-brindled Crescent	Invertebrates	Moth
<i>Amphipoea oculea</i>	Ear Moth	Invertebrates	Moth
<i>Amphipyra tragopoginis</i>	Mouse Moth	Invertebrates	Moth



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<i>Anania funebris</i>	White-spotted Sable Moth	Invertebrates	Moth
<i>Apamea anceps</i>	Large Nutmeg	Invertebrates	Moth
<i>Apamea remissa</i>	Dusky Brocade	Invertebrates	Moth
<i>Aplasta ononaria</i>	Rest Harrow	Invertebrates	Moth
<i>Aplota palpella</i>	Scarce Brown Streak	Invertebrates	Moth
<i>Aporophyla lutulenta</i>	Deep-brown Dart	Invertebrates	Moth
<i>Archanara neurica</i>	White-mantled Wainscot	Invertebrates	Moth
<i>Arctia caja</i>	Garden Tiger	Invertebrates	Moth
<i>Aspitates gilvaria subsp. gilvaria</i>	Straw Belle	Invertebrates	Moth
<i>Asteroscopus sphinx</i>	Sprawler	Invertebrates	Moth
<i>Atethmia centrigo</i>	Centre-barred Sallow	Invertebrates	Moth
<i>Athetis pallustris</i>	Marsh Moth	Invertebrates	Moth
<i>Blepharita adusta</i>	Dark Brocade	Invertebrates	Moth
<i>Brachylomia viminalis</i>	Minor Shoulder Knot	Invertebrates	Moth
<i>Caradrina morpheus</i>	Mottled Rustic	Invertebrates	Moth
<i>Catocala promissa</i>	Light Crimson Underwing	Invertebrates	Moth
<i>Catocala sponsa</i>	Dark Crimson Underwing	Invertebrates	Moth
<i>Celaena haworthii</i>	Haworth's Minor	Invertebrates	Moth
<i>Celaena leucostigma</i>	Crescent	Invertebrates	Moth
<i>Celypha woodiana</i>	Mistletoe Marble	Invertebrates	Moth
<i>Chesias legatella</i>	Streak	Invertebrates	Moth
<i>Chesias rufata</i>	Broom-tip	Invertebrates	Moth
<i>Chiasmia clathrata</i>	Latticed Heath	Invertebrates	Moth
<i>Chortodes brevilinea</i>	Fenn's Wainscot	Invertebrates	Moth
<i>Chortodes extrema</i>	The Concolorous	Invertebrates	Moth
<i>Coleophora hydrolapathella</i>	Water-dock Case-bearer	Invertebrates	Moth
<i>Coleophora tricolor</i>	Basil-thyme Case-bearer	Invertebrates	Moth
<i>Coleophora vibicella</i>	Large Gold Case-bearer	Invertebrates	Moth
<i>Coleophora wockeella</i>	Betony Case-bearer	Invertebrates	Moth

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<i>Coscinia cribraria subsp. bivittata</i>	Speckled Footman	Invertebrates	Moth
<i>Cosmia diffinis</i>	White-Spotted Pinion	Invertebrates	Moth
<i>Cossus cossus</i>	Goat Moth	Invertebrates	Moth
<i>Cyclophora pendularia</i>	Dingy Mocha	Invertebrates	Moth
<i>Cyclophora porata</i>	False Mocha	Invertebrates	Moth
<i>Cymatophorima diluta</i>	Oak Lutestring	Invertebrates	Moth
<i>Dasypolia templi</i>	Brindled Ochre	Invertebrates	Moth
<i>Diarsia rubi</i>	Small Square-spot	Invertebrates	Moth
<i>Dicycla oo</i>	Heart Moth	Invertebrates	Moth
<i>Diloba caeruleocephala</i>	Figure of Eight	Invertebrates	Moth
<i>Ecliptopera silaceata</i>	Small Pheonix	Invertebrates	Moth
<i>Ennomos erosaria</i>	September Thorn	Invertebrates	Moth
<i>Ennomos fuscantaria</i>	Dusky Thorn	Invertebrates	Moth
<i>Ennomos quercinaria</i>	August Thorn	Invertebrates	Moth
<i>Entephria caesiata</i>	Grey Mountain Carpet	Invertebrates	Moth
<i>Epermenia insecurella</i>	Chalk-hill Lance-wing	Invertebrates	Moth
<i>Epione vespertaria</i>	Dark Bordered Beauty	Invertebrates	Moth
<i>Epirrhoe galiata</i>	Galium Carpet	Invertebrates	Moth
<i>Eudarcia richardsoni</i>	Dorset Tineid Moth	Invertebrates	Moth
<i>Eugnorisma glareosa</i>	Autumnal Rustic	Invertebrates	Moth
<i>Eulithis mellinata</i>	Spinach	Invertebrates	Moth
<i>Eupithecia extensaria subsp. occidua</i>	Scarce Pug	Invertebrates	Moth
<i>Eustroma reticulatum</i>	Netted Carpet	Invertebrates	Moth
<i>Euxoa nigricans</i>	Garden Dart	Invertebrates	Moth
<i>Euxoa tritici</i>	White-line Dart	Invertebrates	Moth
<i>Graphiphora augur</i>	Double Dart	Invertebrates	Moth
<i>Grapholita pallifrontana</i>	Liquorice Piercer	Invertebrates	Moth
<i>Hadena albimacula</i>	White Spot	Invertebrates	Moth
<i>Heliophobus reticulata</i>	Bordered Gothic	Invertebrates	Moth



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<i>Heliothis maritima</i>	Shoulder-striped Clover	Invertebrates	Moth
<i>Hemaris tityus</i>	Narrow-bordered Bee Hawk-moth	Invertebrates	Moth
<i>Hemistola chrysoprasaria</i>	Small Emerald	Invertebrates	Moth
<i>Hepialus humuli</i>	Ghost Moth	Invertebrates	Moth
<i>Hoplodrina blanda</i>	Rustic	Invertebrates	Moth
<i>Hydraecia micacea</i>	Rosy Rustic	Invertebrates	Moth
<i>Hydraecia osseola subsp. hucherardi</i>	Marsh Mallow Moth	Invertebrates	Moth
<i>Idaea dilutaria</i>	Silky Wave	Invertebrates	Moth
<i>Idaea ochrata subsp. cantiata</i>	Bright Wave	Invertebrates	Moth
<i>Jodia croceago</i>	Orange Upperwing	Invertebrates	Moth
<i>Lampronia capitella</i>	Currant-shoot Borer	Invertebrates	Moth
<i>Lithostege griseata</i>	Grey Carpet	Invertebrates	Moth
<i>Luperina nickerlii subsp. leechi</i>	Sandhill Rustic	Invertebrates	Moth
<i>Lycia hirtaria</i>	Brindled Beauty	Invertebrates	Moth
<i>Lycia zonaria subsp. britannica</i>	Belted Beauty	Invertebrates	Moth
<i>Macaria wauaria</i>	V-moth	Invertebrates	Moth
<i>Malacosoma neustria</i>	Lackey	Invertebrates	Moth
<i>Melanchra persicariae</i>	Dot Moth	Invertebrates	Moth
<i>Melanchra pisi</i>	Broom Moth	Invertebrates	Moth
<i>Melanthia procellata</i>	Pretty Chalk Carpet	Invertebrates	Moth
<i>Mesoligia literosa</i>	Rosy Minor	Invertebrates	Moth
<i>Minoa murinata</i>	Drab Looper	Invertebrates	Moth
<i>Mythimna comma</i>	Shoulder-striped Wainscot	Invertebrates	Moth
<i>Nemophora fasciella</i>	Horehound Long-horn Moth	Invertebrates	Moth
<i>Noctua orbona</i>	Lunar Yellow Underwing	Invertebrates	Moth
<i>Orgyia recens</i>	Scarce Vapourer	Invertebrates	Moth
<i>Oria musculosa</i>	Brighton Wainscot	Invertebrates	Moth
<i>Orthonama vittata</i>	Oblique Carpet	Invertebrates	Moth
<i>Orthosia gracilis</i>	Powdered Quaker	Invertebrates	Moth

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<i>Paracolax tristalis</i>	Clay Fan-Foot	Invertebrates	Moth
<i>Pareulype berberata</i>	Barberry Carpet	Invertebrates	Moth
<i>Pechipogo strigilata</i>	Common Fan-foot	Invertebrates	Moth
<i>Pelurga comitata</i>	Dark Spinach	Invertebrates	Moth
<i>Perizoma albulata subsp. albulata</i>	Grass Rivulet	Invertebrates	Moth
<i>Phyllonorycter sagitella</i>	Scarce Aspen Midget Moth	Invertebrates	Moth
<i>Phyllonorycter scabiosella</i>	Surrey Midget Moth	Invertebrates	Moth
<i>Polia bombycina</i>	Pale Shining Brown	Invertebrates	Moth
<i>Pyropteron chrysidiformis</i>	Fiery Clearwing	Invertebrates	Moth
<i>Rheumaptera hastata</i>	Argent and Sable	Invertebrates	Moth
<i>Rhizedra lutosa</i>	Large Wainscot	Invertebrates	Moth
<i>Sciota hostilis</i>	Scarce Aspen Knot-horn	Invertebrates	Moth
<i>Scopula marginepunctata</i>	Mullein Wave	Invertebrates	Moth
<i>Scotopteryx bipunctaria</i>	Chalk Carpet	Invertebrates	Moth
<i>Scotopteryx chenopodiata</i>	Shaded Broad-bar	Invertebrates	Moth
<i>Scythris siccella</i>	Least Owlet	Invertebrates	Moth
<i>Shargacucullia lychnitis</i>	Striped Lychnis	Invertebrates	Moth
<i>Siona lineata</i>	Black-veined Moth	Invertebrates	Moth
<i>Spilosoma lubricipeda</i>	White Ermine	Invertebrates	Moth
<i>Spilosoma luteum</i>	Buff Ermine	Invertebrates	Moth
<i>Stigmella zelleriella</i>	Sandhill Pigmy Moth	Invertebrates	Moth
<i>Stilbia anomala</i>	Anomalous	Invertebrates	Moth
<i>Syncopacma albipalpella</i>	Slate Sober Moth	Invertebrates	Moth
<i>Syncopacma suecicella</i>	Western Sober Moth	Invertebrates	Moth
<i>Thalera fimbrialis</i>	Sussex Emerald	Invertebrates	Moth
<i>Tholera cespitis</i>	Hedge Rustic	Invertebrates	Moth
<i>Tholera decimalis</i>	Feathered Gothic	Invertebrates	Moth
<i>Timandra comae</i>	Blood Vein	Invertebrates	Moth
<i>Trichiura crataegi</i>	Pale Eggar	Invertebrates	Moth

<b>Taxon name</b>	<b>Common name</b>	<b>Species grouping</b>	<b>Taxon group</b>
<i>Trichopteryx polycommata</i>	Barred Tooth-striped	Invertebrates	Moth
<i>Trisateles emortualis</i>	Olive Crescent	Invertebrates	Moth
<i>Tyria jacobaeae</i>	Cinnabar	Invertebrates	Moth
<i>Tyta luctuosa</i>	Four-Spotted Moth	Invertebrates	Moth
<i>Watsonalla binaria</i>	Oak Hook-tip	Invertebrates	Moth
<i>Xanthia gilvago</i>	Dusky Lemon Sallow	Invertebrates	Moth
<i>Xanthia icteritia</i>	Sallow	Invertebrates	Moth
<i>Xanthorhoe decoloraria</i>	Red Carpet	Invertebrates	Moth
<i>Xanthorhoe ferrugata</i>	Dark-barred Twin-Spot Carpet	Invertebrates	Moth
<i>Xestia agathina</i>	Heath Rustic	Invertebrates	Moth
<i>Xestia alpicola subsp. alpina</i>	Northern Dart	Invertebrates	Moth
<i>Xestia castanea</i>	Neglected Rustic	Invertebrates	Moth
<i>Agroeca cuprea</i>	Golden Lantern-spider	Invertebrates	Spider
<i>Alopecosa fabrilis</i>	Great Fox-spider	Invertebrates	Spider
<i>Altella lucida</i>	Dorset Mesh-weaver	Invertebrates	Spider
<i>Arctosa fulvolineata</i>	Yellow-striped Bear-spider	Invertebrates	Spider
<i>Baryphyma duffeyi</i>	A Money Spider	Invertebrates	Spider
<i>Centromerus serratus</i>	A Money Spider	Invertebrates	Spider
<i>Clubiona rosserae</i>	Rosser's Sac-spider	Invertebrates	Spider
<i>Dictyna pusilla</i>	Small Mesh-weaver	Invertebrates	Spider
<i>Dipoena inornata</i>	Silky Gallows-spider	Invertebrates	Spider
<i>Dolomedes plantarius</i>	Fen Raft Spider	Invertebrates	Spider
<i>Eresus sandaliatus</i>	Ladybird Spider	Invertebrates	Spider
<i>Erigone welchi</i>	Welch's Money-spider	Invertebrates	Spider
<i>Glyphesis cottonae</i>	Cotton's Amazon Spider	Invertebrates	Spider
<i>Haplodrassus dalmatensis</i>	Heath Grasper	Invertebrates	Spider
<i>Mecopisthes peusi</i>	Peus's Long-back Spider	Invertebrates	Spider
<i>Meioneta mollis</i>	Thin Weblet	Invertebrates	Spider
<i>Midia midas</i>	Midas Tree-weaver	Invertebrates	Spider

<b>Taxon name</b>	<b>Common name</b>	<b>Species grouping</b>	<b>Taxon group</b>
<i>Monocephalus castaneipes</i>	Broad Groove-head Spider	Invertebrates	Spider
<i>Nothophantes horridus</i>	Horrid Ground-weaver	Invertebrates	Spider
<i>Notioscopus sarcinatus</i>	Swamp Lookout Spider	Invertebrates	Spider
<i>Ozyptila nigrita</i>	Southern Crablet	Invertebrates	Spider
<i>Philodromus fallax</i>	Sand Running-spider	Invertebrates	Spider
<i>Philodromus margaritatus</i>	Lichen Running-spider	Invertebrates	Spider
<i>Pseudeuophrys obsoleta</i>	Whelk-shell Jumper	Invertebrates	Spider
<i>Saaristoa firma</i>	Triangle Hammock-spider	Invertebrates	Spider
<i>Semljicola caliginosus</i>	Cloud-living Spider	Invertebrates	Spider
<i>Silometopus incurvatus</i>	Bend-bearing Blunt-brow Spider	Invertebrates	Spider
<i>Sitticus caricis</i>	Sedge Jumper	Invertebrates	Spider
<i>Sitticus distinguendus</i>	Distinguished Jumper	Invertebrates	Spider
<i>Tapinocyba mitis</i>	Gentle Groove-head Spider	Invertebrates	Spider
<i>Walckenaeria corniculans</i>	Small-horned Walckenaer	Invertebrates	Spider
<i>Brachyptera putata</i>	A Stonefly	Invertebrates	Stonefly
<i>Cerceris quadricincta</i>	A Solitary Wasp	Invertebrates	Wasp
<i>Cerceris quinquefasciata</i>	5-Banded Tailed Digger Wasp	Invertebrates	Wasp
<i>Chrysis fulgida</i>	Ruby-tailed Wasp	Invertebrates	Wasp
<i>Homonotus sanguinolentus</i>	Bloody Spider-hunting Wasp	Invertebrates	Wasp
<i>Odynerus melanocephalus</i>	Black-headed Mason Wasp	Invertebrates	Wasp
<i>Odynerus simillimus</i>	Fen Mason-wasp	Invertebrates	Wasp
<i>Pseudepipona herrichii</i>	Purbeck Mason Wasp	Invertebrates	Wasp
<i>Armandia cirrhosa</i>	Lagoon Sandworm	Invertebrates	Worm
<i>Prostoma jenningsi</i>	Jennings's Ribbon-worm	Invertebrates	Worm
<i>Anotrichium barbatum</i>	Bearded Red Seaweed	Lower plants and fungi	Alga
<i>Cruoria cruoriaeformis</i>	A Red Seaweed	Lower plants and fungi	Alga
<i>Dermocorynus montagnei</i>	A Red Seaweed	Lower plants and	Alga

<b>Taxon name</b>	<b>Common name</b>	<b>Species grouping</b>	<b>Taxon group</b>
		fungi	
<i>Lithothamnion corallioides</i>	Coral Maërl	Lower plants and fungi	Alga
<i>Padina pavonica</i>	Peacock's Tail	Lower plants and fungi	Alga
<i>Phymatolithon calcareum</i>	Common Maërl	Lower plants and fungi	Alga
<i>Acaulon triquetrum</i>	Triangular Pygmy-moss	Lower plants and fungi	Bryophyte
<i>Anomodon longifolius</i>	Long-leaved Tail-moss	Lower plants and fungi	Bryophyte
<i>Aplodon wormskjoldii</i>	Carrion-moss	Lower plants and fungi	Bryophyte
<i>Atrichum angustatum</i>	Lesser Smoothcap	Lower plants and fungi	Bryophyte
<i>Bryum calophyllum</i>	Matted Bryum	Lower plants and fungi	Bryophyte
<i>Bryum cyclophyllum</i>	Round-leaved Bryum	Lower plants and fungi	Bryophyte
<i>Bryum gemmiparum</i>	Welsh Thread-moss	Lower plants and fungi	Bryophyte
<i>Bryum knowltonii</i>	Knowlton`s Thread-moss	Lower plants and fungi	Bryophyte
<i>Bryum marratii</i>	Baltic Bryum	Lower plants and fungi	Bryophyte
<i>Bryum salinum</i>	Saltmarsh Thread-moss	Lower plants and fungi	Bryophyte
<i>Bryum warneum</i>	Sea Bryum	Lower plants and fungi	Bryophyte
<i>Cephaloziella baumgartneri</i>	Chalk Threadwort	Lower plants and fungi	Bryophyte

<b>Taxon name</b>	<b>Common name</b>	<b>Species grouping</b>	<b>Taxon group</b>
<i>Cephaloziella calyculata</i>	Entire Threadwort	Lower plants and fungi	Bryophyte
<i>Cephaloziella dentata</i>	Toothed Threadwort	Lower plants and fungi	Bryophyte
<i>Cephaloziella integerrima</i>	Lobed Threadwort	Lower plants and fungi	Bryophyte
<i>Cephaloziella nicholsonii</i>	Greater Copperwort	Lower plants and fungi	Bryophyte
<i>Ceratodon conicus</i>	Scarce Redshank	Lower plants and fungi	Bryophyte
<i>Cryphaea lamyana</i>	Multi-fruited River Moss	Lower plants and fungi	Bryophyte
<i>Cyclodictyon laetevirens</i>	Bright-green Cave-moss	Lower plants and fungi	Bryophyte
<i>Dicranum bergeri</i>	Waved Fork-moss	Lower plants and fungi	Bryophyte
<i>Dicranum spurium</i>	Rusty Fork-moss	Lower plants and fungi	Bryophyte
<i>Didymodon glaucus</i>	Glaucous Beard-moss	Lower plants and fungi	Bryophyte
<i>Didymodon tomaculosus</i>	Sausage Beard-moss	Lower plants and fungi	Bryophyte
<i>Ditrichum cornubicum</i>	Cornish Path Moss	Lower plants and fungi	Bryophyte
<i>Ditrichum plumbicola</i>	Lead-moss	Lower plants and fungi	Bryophyte
<i>Ditrichum subulatum</i>	Awl-leaved Ditrichum	Lower plants and fungi	Bryophyte
<i>Dumortiera hirsuta</i>	Dumortier`s Liverwort	Lower plants and fungi	Bryophyte
<i>Ephemerum cohaerens</i>	Clustered Earth-moss	Lower plants and	Bryophyte

<b>Taxon name</b>	<b>Common name</b>	<b>Species grouping</b>	<b>Taxon group</b>
		fungi	
<i>Fissidens curvatus</i>	Portuguese Pocket-moss	Lower plants and fungi	Bryophyte
<i>Fissidens serrulatus</i>	Large Atlantic Pocket-moss	Lower plants and fungi	Bryophyte
<i>Fossombronia foveolata</i>	Pitted Frillwort	Lower plants and fungi	Bryophyte
<i>Funaria pulchella</i>	Pretty Cord-moss	Lower plants and fungi	Bryophyte
<i>Grimmia crinita</i>	Hedgehog Grimmia	Lower plants and fungi	Bryophyte
<i>Grimmia elongata</i>	Brown Grimmia	Lower plants and fungi	Bryophyte
<i>Habrodon perpusillus</i>	Lesser Squirrel-tail Moss	Lower plants and fungi	Bryophyte
<i>Homomallium incurvatum</i>	Incurved Feather-moss	Lower plants and fungi	Bryophyte
<i>Jamesoniella undulifolia</i>	Marsh Earwort	Lower plants and fungi	Bryophyte
<i>Jungermannia leiantha</i>	Long-leaved Flapwort	Lower plants and fungi	Bryophyte
<i>Leiocolea rutheana</i>	Fen Notchwort	Lower plants and fungi	Bryophyte
<i>Lejeunea mandonii</i>	Atlantic Lejeunea	Lower plants and fungi	Bryophyte
<i>Leptodontium gemmascens</i>	Thatch Moss	Lower plants and fungi	Bryophyte
<i>Lophozia capitata</i>	Large-celled Flapwort	Lower plants and fungi	Bryophyte
<i>Marsupella profunda</i>	Western Rustwort	Lower plants and fungi	Bryophyte

<b>Taxon name</b>	<b>Common name</b>	<b>Species grouping</b>	<b>Taxon group</b>
<i>Micromitrium tenerum</i>	Millimetre Moss	Lower plants and fungi	Bryophyte
<i>Orthodontium gracile</i>	Slender Thread-moss	Lower plants and fungi	Bryophyte
<i>Orthotrichum pallens</i>	Pale Bristle-moss	Lower plants and fungi	Bryophyte
<i>Orthotrichum pumilum</i>	Dwarf Bristle-moss	Lower plants and fungi	Bryophyte
<i>Pallavicinia lyellii</i>	Veilwort	Lower plants and fungi	Bryophyte
<i>Petalophyllum ralfsii</i>	Petalwort	Lower plants and fungi	Bryophyte
<i>Philonotis marchica</i>	Bog Apple-moss	Lower plants and fungi	Bryophyte
<i>Physcomitrium eurystomum</i>	Norfolk Bladder-moss	Lower plants and fungi	Bryophyte
<i>Rhynchostegium rotundifolium</i>	Round-leaved Feather-moss	Lower plants and fungi	Bryophyte
<i>Rhytidiadelphus subpinnatus</i>	Scarce Turf-moss	Lower plants and fungi	Bryophyte
<i>Riccia bifurca</i>	Lizard Crystalwort	Lower plants and fungi	Bryophyte
<i>Riccia canaliculata</i>	Channelled Crystalwort	Lower plants and fungi	Bryophyte
<i>Riccia nigrella</i>	Black Crystalwort	Lower plants and fungi	Bryophyte
<i>Scopelophila cataractae</i>	Tongue-leaf Copper-moss	Lower plants and fungi	Bryophyte
<i>Seligeria carniolica</i>	Water Rock-bristle	Lower plants and fungi	Bryophyte
<i>Southbya nigrella</i>	Blackwort	Lower plants and	Bryophyte



<b>Taxon name</b>	<b>Common name</b>	<b>Species grouping</b>	<b>Taxon group</b>
		fungi	
<i>Sphaerocarpos texanus</i>	Texas Balloonwort	Lower plants and fungi	Bryophyte
<i>Sphagnum balticum</i>	Baltic Bog-Moss	Lower plants and fungi	Bryophyte
<i>Splachnum vasculosum</i>	Rugged Collar-moss	Lower plants and fungi	Bryophyte
<i>Telaranea nematodes</i>	Irish Threadwort	Lower plants and fungi	Bryophyte
<i>Thamnobryum angustifolium</i>	Derbyshire Feather-moss	Lower plants and fungi	Bryophyte
<i>Thamnobryum cataractarum</i>	Yorkshire Feather-moss	Lower plants and fungi	Bryophyte
<i>Tortula cernua</i>	Flamingo Moss	Lower plants and fungi	Bryophyte
<i>Tortula cuneifolia</i>	Wedge-leaved Screw-moss	Lower plants and fungi	Bryophyte
<i>Tortula freibergii</i>	Freiberg`s Screw-moss	Lower plants and fungi	Bryophyte
<i>Tortula vahliana</i>	Chalk Screw-moss	Lower plants and fungi	Bryophyte
<i>Tortula wilsonii</i>	Wilson`s Pottia	Lower plants and fungi	Bryophyte
<i>Weissia condensa</i>	Curly Beardless-moss	Lower plants and fungi	Bryophyte
<i>Weissia levieri</i>	Levier`s Beardless-moss	Lower plants and fungi	Bryophyte
<i>Weissia multicapsularis</i>	A Moss	Lower plants and fungi	Bryophyte
<i>Weissia squarrosa</i>	Spreading-leaved Beardless-moss	Lower plants and fungi	Bryophyte

<b>Taxon name</b>	<b>Common name</b>	<b>Species grouping</b>	<b>Taxon group</b>
<i>Weissia sterilis</i>	Sterile Beardless-moss	Lower plants and fungi	Bryophyte
<i>Zygodon forsteri</i>	Knothole Moss	Lower plants and fungi	Bryophyte
<i>Zygodon gracilis</i>	Nowell`s Limestone Moss	Lower plants and fungi	Bryophyte
<i>Amanita friabilis</i>	Fragile Amanita	Lower plants and fungi	Fungus
<i>Armillaria ectypa</i>	Marsh Honey Fungus	Lower plants and fungi	Fungus
<i>Bankera fuligineoalba</i>	Drab Tooth	Lower plants and fungi	Fungus
<i>Battarrea phalloides</i>	Sandy Stilt Puffball	Lower plants and fungi	Fungus
<i>Boletus immutatus</i>	Constant Bolete	Lower plants and fungi	Fungus
<i>Boletus pseudoregius</i>	The Pretender	Lower plants and fungi	Fungus
<i>Boletus regius</i>	Royal Bolete	Lower plants and fungi	Fungus
<i>Boletus rhodopurpureus</i>	Oldrose Bolete	Lower plants and fungi	Fungus
<i>Boletus torosus</i>	Brawny Bolete	Lower plants and fungi	Fungus
<i>Bovista paludosa</i>	Fen Puffball	Lower plants and fungi	Fungus
<i>Cantharellus friesii</i>	Orange Chanterelle	Lower plants and fungi	Fungus
<i>Cantharellus melanoxeros</i>	Blackening Chanterelle	Lower plants and fungi	Fungus
<i>Chlorencoelia versiformis</i>	Flea's Ear	Lower plants and	Fungus

<b>Taxon name</b>	<b>Common name</b>	<b>Species grouping</b>	<b>Taxon group</b>
		fungi	
<i>Chrysomyxa pirolata</i>	Wintergreen Rust	Lower plants and fungi	Fungus
<i>Cotylidia pannosa</i>	Wooly Rosette	Lower plants and fungi	Fungus
<i>Entoloma bloxamii</i>	Big Blue Pinkgill	Lower plants and fungi	Fungus
<i>Geastrum berkeleyi</i>	Berkeley's Earthstar	Lower plants and fungi	Fungus
<i>Geastrum corollinum</i>	Weathered Earthstar	Lower plants and fungi	Fungus
<i>Geastrum elegans</i>	Elegant Earthstar	Lower plants and fungi	Fungus
<i>Geastrum minimum</i>	Tiny Earthstar	Lower plants and fungi	Fungus
<i>Geoglossum atropurpureum</i>	Dark-purple Earthtongue	Lower plants and fungi	Fungus
<i>Hericiium coralloides</i>	Coral Tooth	Lower plants and fungi	Fungus
<i>Hericiium erinaceus</i>	Bearded Tooth	Lower plants and fungi	Fungus
<i>Hohenbuehelia culmicola</i>	Marram Oyster	Lower plants and fungi	Fungus
<i>Hydnellum conrescens</i>	A Tooth Fungus	Lower plants and fungi	Fungus
<i>Hydnellum ferrugineum</i>	A Tooth Fungus	Lower plants and fungi	Fungus
<i>Hydnellum scrobiculatum</i>	A Tooth Fungus	Lower plants and fungi	Fungus
<i>Hydnellum spongiosipes</i>	Velvet Tooth	Lower plants and fungi	Fungus

<b>Taxon name</b>	<b>Common name</b>	<b>Species grouping</b>	<b>Taxon group</b>
<i>Hygrocybe spadicea</i>	Date-Coloured Waxcap	Lower plants and fungi	Fungus
<i>Hygrophorus pudorinus</i>	Rosy Woodwax	Lower plants and fungi	Fungus
<i>Hypocreopsis lichenoides</i>	Willow Gloves	Lower plants and fungi	Fungus
<i>Hypocreopsis rhododendri</i>	Hazel Gloves	Lower plants and fungi	Fungus
<i>Lyophyllum favrei</i>	Gilded Domecap	Lower plants and fungi	Fungus
<i>Microglossum olivaceum</i>	Earth-Tongue	Lower plants and fungi	Fungus
<i>Mycena renati</i>	Beautiful Bonnet	Lower plants and fungi	Fungus
<i>Myriostoma coliforme</i>	Pepper Pot	Lower plants and fungi	Fungus
<i>Phellodon confluens</i>	Fused Tooth	Lower plants and fungi	Fungus
<i>Phellodon melaleucus</i>	Grey Tooth	Lower plants and fungi	Fungus
<i>Phellodon niger</i>	Black Tooth	Lower plants and fungi	Fungus
<i>Phellodon tomentosus</i>	Wooly Tooth	Lower plants and fungi	Fungus
<i>Pholiota astragalina</i>	Conifer Scalycap	Lower plants and fungi	Fungus
<i>Phylloporus pelletieri</i>	Golden Gilled Bolete	Lower plants and fungi	Fungus
<i>Piptoporus quercinus</i>	Oak Polypore	Lower plants and fungi	Fungus
<i>Podoscypha multizonata</i>	Zoned Rosette	Lower plants and	Fungus

<b>Taxon name</b>	<b>Common name</b>	<b>Species grouping</b>	<b>Taxon group</b>
		fungi	
<i>Poronia punctata</i>	Nail Fungus	Lower plants and fungi	Fungus
<i>Puccinia physospermi</i>	Bladder-seed Rust	Lower plants and fungi	Fungus
<i>Puccinia scorzonerae</i>	Scorzonera Rust	Lower plants and fungi	Fungus
<i>Puccinia thesii</i>	Bastard-toadflax Rust	Lower plants and fungi	Fungus
<i>Sarcodon scabrosus</i>	A Tooth Fungus	Lower plants and fungi	Fungus
<i>Sarcodon squamosus</i>	Scaly Tooth	Lower plants and fungi	Fungus
<i>Sarcodontia crocea</i>	Orchard Tooth	Lower plants and fungi	Fungus
<i>Sarcosphaera coronaria</i>	Violet Crowncup	Lower plants and fungi	Fungus
<i>Stephanospora caroticola</i>	Carroty False Truffle	Lower plants and fungi	Fungus
<i>Tephrocybe osmophora</i>	Sweet Greyling	Lower plants and fungi	Fungus
<i>Tracya hydrocharidis</i>	Frogbit Smut	Lower plants and fungi	Fungus
<i>Tremella moriformis</i>	Mulberry Brain	Lower plants and fungi	Fungus
<i>Tremellodendropsis tuberosa</i>	Ashen Coral	Lower plants and fungi	Fungus
<i>Tulostoma melanocyclum</i>	Scaly Stalkball	Lower plants and fungi	Fungus
<i>Urocystis colchici</i>	Colchicum Smut	Lower plants and fungi	Fungus

<b>Taxon name</b>	<b>Common name</b>	<b>Species grouping</b>	<b>Taxon group</b>
<i>Urocystis primulicola</i>	Bird's-eye Primrose Smut	Lower plants and fungi	Fungus
<i>Uromyces gentianae</i>	Felwort Rust	Lower plants and fungi	Fungus
<i>Acarospora subrufula</i>	A Lichen	Lower plants and fungi	Lichen
<i>Anaptychia ciliaris</i> subsp. <i>ciliaris</i>	A Lichen	Lower plants and fungi	Lichen
<i>Arthonia anglica</i>	A Lichen	Lower plants and fungi	Lichen
<i>Arthonia atlantica</i>	A Lichen	Lower plants and fungi	Lichen
<i>Arthonia invadens</i>	A Lichen	Lower plants and fungi	Lichen
<i>Bacidia circumspecta</i>	A Lichen	Lower plants and fungi	Lichen
<i>Bacidia incompta</i>	A Lichen	Lower plants and fungi	Lichen
<i>Bacidia subincompta</i>	A Lichen	Lower plants and fungi	Lichen
<i>Bacidia subturgidula</i>	A Lichen	Lower plants and fungi	Lichen
<i>Belonia calcicola</i>	A Lichen	Lower plants and fungi	Lichen
<i>Biatorella fossarum</i>	A Lichen	Lower plants and fungi	Lichen
<i>Biatoridium monasteriense</i>	A Lichen	Lower plants and fungi	Lichen
<i>Blarneya hibernica</i>	A Lichen	Lower plants and fungi	Lichen
<i>Bryoria nadvornikiana</i>	A Lichen	Lower plants and	Lichen

<b>Taxon name</b>	<b>Common name</b>	<b>Species grouping</b>	<b>Taxon group</b>
		fungi	
<i>Bryoria smithii</i>	A Lichen	Lower plants and fungi	Lichen
<i>Buellia asterella</i>	Starry Breck-lichen	Lower plants and fungi	Lichen
<i>Buellia hyperbolica</i>	A Lichen	Lower plants and fungi	Lichen
<i>Buellia violaceofusca</i>	A Lichen	Lower plants and fungi	Lichen
<i>Calicium adpersum</i>	A Lichen	Lower plants and fungi	Lichen
<i>Calicium corynellum</i>	A Lichen	Lower plants and fungi	Lichen
<i>Caloplaca aractina</i>	A Lichen	Lower plants and fungi	Lichen
<i>Caloplaca atroflava</i>	A Lichen	Lower plants and fungi	Lichen
<i>Caloplaca flavorubescens</i>	A Lichen	Lower plants and fungi	Lichen
<i>Caloplaca herbidella</i>	A Lichen	Lower plants and fungi	Lichen
<i>Caloplaca lucifuga</i>	A Lichen	Lower plants and fungi	Lichen
<i>Caloplaca luteoalba</i>	Orange-Fruited Elm-lichen	Lower plants and fungi	Lichen
<i>Caloplaca virescens</i>	A Lichen	Lower plants and fungi	Lichen
<i>Catapyrenium michelii</i>	A Lichen	Lower plants and fungi	Lichen
<i>Catapyrenium psoromoides</i>	Tree Catapyrenium	Lower plants and fungi	Lichen

<b>Taxon name</b>	<b>Common name</b>	<b>Species grouping</b>	<b>Taxon group</b>
<i>Catillaria alba</i>	A Lichen	Lower plants and fungi	Lichen
<i>Chaenotheca gracilentata</i>	A Lichen	Lower plants and fungi	Lichen
<i>Cladonia convoluta</i>	A Lichen	Lower plants and fungi	Lichen
<i>Cladonia mediterranea</i>	Reindeer Lichen	Lower plants and fungi	Lichen
<i>Cladonia peziziformis</i>	A Lichen	Lower plants and fungi	Lichen
<i>Cliostomum corrugatum</i>	A Lichen	Lower plants and fungi	Lichen
<i>Collema dichotomum</i>	River Jelly Lichen	Lower plants and fungi	Lichen
<i>Collema fragile</i>	A Lichen	Lower plants and fungi	Lichen
<i>Collema fragrans</i>	A Lichen	Lower plants and fungi	Lichen
<i>Collema latzelii</i>	A Lichen	Lower plants and fungi	Lichen
<i>Cryptolechia carneolutea</i>	A Lichen	Lower plants and fungi	Lichen
<i>Endocarpon adscendens</i>	A Lichen	Lower plants and fungi	Lichen
<i>Enterographa elaborata</i>	New Forest beech-lichen	Lower plants and fungi	Lichen
<i>Enterographa sorediata</i>	A Lichen	Lower plants and fungi	Lichen
<i>Fulgensia fulgens</i>	A Lichen	Lower plants and fungi	Lichen
<i>Fuscopannaria sampaiana</i>	A Lichen	Lower plants and	Lichen



<b>Taxon name</b>	<b>Common name</b>	<b>Species grouping</b>	<b>Taxon group</b>
		fungi	
<i>Graphina pauciloculata</i>	A Lichen	Lower plants and fungi	Lichen
<i>Gyalecta ulmi</i>	Elm`s Gyalecta	Lower plants and fungi	Lichen
<i>Heterodermia leucomela</i>	Ciliate Strap-Lichen	Lower plants and fungi	Lichen
<i>Heterodermia speciosa</i>	A Lichen	Lower plants and fungi	Lichen
<i>Lecania chlorotiza</i>	A Lichen	Lower plants and fungi	Lichen
<i>Lecanographa amylacea</i>	A Lichen	Lower plants and fungi	Lichen
<i>Lecanora achariana</i>	Tarn Lecanora	Lower plants and fungi	Lichen
<i>Lecanora quercicola</i>	A Lichen	Lower plants and fungi	Lichen
<i>Lecanora sublivescens</i>	A Lichen	Lower plants and fungi	Lichen
<i>Lecidea erythrophaea</i>	A Lichen	Lower plants and fungi	Lichen
<i>Lecidea inops</i>	Copper Lecidea	Lower plants and fungi	Lichen
<i>Leptogium cochleatum</i>	A Lichen	Lower plants and fungi	Lichen
<i>Leptogium saturninum</i>	A Lichen	Lower plants and fungi	Lichen
<i>Megalaria laureri</i>	A Lichen	Lower plants and fungi	Lichen
<i>Megalospora tuberculosa</i>	A Lichen	Lower plants and fungi	Lichen

<b>Taxon name</b>	<b>Common name</b>	<b>Species grouping</b>	<b>Taxon group</b>
<i>Melaspilea lentiginosa</i>	A Lichen	Lower plants and fungi	Lichen
<i>Opegrapha prosodea</i>	A Lichen	Lower plants and fungi	Lichen
<i>Opegrapha subelevata</i>	A Lichen	Lower plants and fungi	Lichen
<i>Parmeliella testacea</i>	A Lichen	Lower plants and fungi	Lichen
<i>Parmelina quercina</i>	A Lichen	Lower plants and fungi	Lichen
<i>Parmotrema robustum</i>	A Lichen	Lower plants and fungi	Lichen
<i>Peltigera venosa</i>	A Lichen	Lower plants and fungi	Lichen
<i>Pertusaria velata</i>	A Lichen	Lower plants and fungi	Lichen
<i>Phaeophyscia endococcina</i>	A Lichen	Lower plants and fungi	Lichen
<i>Physcia tribacioides</i>	Southern Grey Physcia	Lower plants and fungi	Lichen
<i>Poeltinula cerebrina</i>	A Lichen	Lower plants and fungi	Lichen
<i>Porina effilata</i>	A Lichen	Lower plants and fungi	Lichen
<i>Porina hibernica</i>	A Lichen	Lower plants and fungi	Lichen
<i>Porina sudetica</i>	A Lichen	Lower plants and fungi	Lichen
<i>Pseudocyphellaria aurata</i>	A Lichen	Lower plants and fungi	Lichen
<i>Pseudocyphellaria intricata</i>	A Lichen	Lower plants and	Lichen

<b>Taxon name</b>	<b>Common name</b>	<b>Species grouping</b>	<b>Taxon group</b>
		fungi	
<i>Pyrenula nitida</i>	A Lichen	Lower plants and fungi	Lichen
<i>Ramonia chrysophaea</i>	A Lichen	Lower plants and fungi	Lichen
<i>Ramonia dictyospora</i>	A Lichen	Lower plants and fungi	Lichen
<i>Ramonia nigra</i>	A Lichen	Lower plants and fungi	Lichen
<i>Rinodina isidioides</i>	A Lichen	Lower plants and fungi	Lichen
<i>Schismatomma graphidioides</i>	A Lichen	Lower plants and fungi	Lichen
<i>Sclerophora pallida</i>	A Lichen	Lower plants and fungi	Lichen
<i>Solenopsora liparina</i>	Serpentine Solenopsora	Lower plants and fungi	Lichen
<i>Squamarina lentigera</i>	Scaly Breck-Lichen	Lower plants and fungi	Lichen
<i>Stereocaulon delisei</i>	A Lichen	Lower plants and fungi	Lichen
<i>Stereocaulon symphycheilum</i>	A Lichen	Lower plants and fungi	Lichen
<i>Strigula stigmatella</i> var. <i>stigmatella</i>	A Lichen	Lower plants and fungi	Lichen
<i>Synalissa symphorea</i>	A Lichen	Lower plants and fungi	Lichen
<i>Teloschistes flavicans</i>	Golden Hair Lichen	Lower plants and fungi	Lichen
<i>Toninia physaroides</i>	A Lichen	Lower plants and fungi	Lichen

<b>Taxon name</b>	<b>Common name</b>	<b>Species grouping</b>	<b>Taxon group</b>
<i>Toninia sedifolia</i>	A Lichen	Lower plants and fungi	Lichen
<i>Usnea articulata</i>	A Lichen	Lower plants and fungi	Lichen
<i>Usnea florida</i>	A Lichen	Lower plants and fungi	Lichen
<i>Verrucaria xyloxena</i>	A Lichen	Lower plants and fungi	Lichen
<i>Wadeana dendrographa</i>	A Lichen	Lower plants and fungi	Lichen
<i>Wadeana minuta</i>	A Lichen	Lower plants and fungi	Lichen
<i>Chara baltica</i>	Baltic Stonewort	Lower plants and fungi	Stonewort
<i>Chara canescens</i>	Bearded Stonewort	Lower plants and fungi	Stonewort
<i>Chara connivens</i>	Convergent Stonewort	Lower plants and fungi	Stonewort
<i>Chara intermedia</i>	Intermediate Stonewort	Lower plants and fungi	Stonewort
<i>Lamprothamnium papulosum</i>	Foxtail Stonewort	Lower plants and fungi	Stonewort
<i>Nitella tenuissima</i>	Dwarf Stonewort	Lower plants and fungi	Stonewort
<i>Nitellopsis obtusa</i>	Starry Stonewort	Lower plants and fungi	Stonewort
<i>Tolypella intricata</i>	Tassel Stonewort	Lower plants and fungi	Stonewort
<i>Tolypella prolifera</i>	Great Tassel Stonewort	Lower plants and fungi	Stonewort
<i>Aceras anthropophorum</i>	Man Orchid	Higher plants	Vascular plant

<b>Taxon name</b>	<b>Common name</b>	<b>Species grouping</b>	<b>Taxon group</b>
<i>Adonis annua</i>	Pheasants-eye	Higher plants	Vascular plant
<i>Ajuga chamaepitys</i>	Ground-pine	Higher plants	Vascular plant
<i>Ajuga pyramidalis</i>	Pyramidal Bugle	Higher plants	Vascular plant
<i>Alchemilla acutiloba</i>	A Lady`s Mantle	Higher plants	Vascular plant
<i>Alchemilla micans</i>	A Lady's Mantle	Higher plants	Vascular plant
<i>Alchemilla minima</i>	A Lady's Mantle	Higher plants	Vascular plant
<i>Alchemilla monticola</i>	A Lady`s Mantle	Higher plants	Vascular plant
<i>Alchemilla subcrenata</i>	A Lady`s Mantle	Higher plants	Vascular plant
<i>Alisma gramineum</i>	Ribbon-leaved Water-plantain	Higher plants	Vascular plant
<i>Apium repens</i>	Creeping Marshwort	Higher plants	Vascular plant
<i>Arabis glabra</i>	Tower Mustard	Higher plants	Vascular plant
<i>Armeria maritima subsp. elongata</i>	Tall Thrift	Higher plants	Vascular plant
<i>Artemisia campestris</i>	Field Wormwood	Higher plants	Vascular plant
<i>Asparagus prostratus</i>	Wild Asparagus	Higher plants	Vascular plant
<i>Astragalus danicus</i>	Purple Milk-vetch	Higher plants	Vascular plant
<i>Atriplex pedunculata</i>	Pedunculate Sea-purslane	Higher plants	Vascular plant
<i>Blysmus compressus</i>	Flat-sedge	Higher plants	Vascular plant
<i>Bromus interruptus</i>	Interrupted Brome	Higher plants	Vascular plant
<i>Bupleurum rotundifolium</i>	Thorow-wax	Higher plants	Vascular plant
<i>Bupleurum tenuissimum</i>	Slender Hare`s-ear	Higher plants	Vascular plant
<i>Calamagrostis stricta</i>	Narrow Small-reed	Higher plants	Vascular plant
<i>Campanula patula</i>	Spreading Bellflower	Higher plants	Vascular plant
<i>Campanula rapunculus</i>	Rampion Bellflower	Higher plants	Vascular plant
<i>Carex depauperata</i>	Starved Wood-sedge	Higher plants	Vascular plant
<i>Carex divisa</i>	Divided Sedge	Higher plants	Vascular plant
<i>Carex ericetorum</i>	Rare Spring-sedge	Higher plants	Vascular plant
<i>Carex maritima</i>	Curved Sedge	Higher plants	Vascular plant
<i>Carex vulpina</i>	True Fox Sedge	Higher plants	Vascular plant
<i>Carum carvi</i>	Caraway	Higher plants	Vascular plant

<b>Taxon name</b>	<b>Common name</b>	<b>Species grouping</b>	<b>Taxon group</b>
<i>Centaurea calcitrapa</i>	Red Star-thistle	Higher plants	Vascular plant
<i>Centaurea cyanus</i>	Cornflower	Higher plants	Vascular plant
<i>Cephalanthera damasonium</i>	White Helleborine	Higher plants	Vascular plant
<i>Cephalanthera longifolia</i>	Narrow-leaved Helleborine	Higher plants	Vascular plant
<i>Cephalanthera rubra</i>	Red Helleborine	Higher plants	Vascular plant
<i>Chamaemelum nobile</i>	Chamomile	Higher plants	Vascular plant
<i>Chenopodium urbicum</i>	Upright Goosefoot	Higher plants	Vascular plant
<i>Chenopodium vulvaria</i>	Stinking Goosefoot	Higher plants	Vascular plant
<i>Cicendia filiformis</i>	Yellow Centaury	Higher plants	Vascular plant
<i>Clinopodium acinos</i>	Basil Thyme	Higher plants	Vascular plant
<i>Clinopodium menthifolium</i>	Wood Calamint	Higher plants	Vascular plant
<i>Coincya wrightii</i>	Lundy Cabbage	Higher plants	Vascular plant
<i>Corrigiola litoralis</i>	Strapwort	Higher plants	Vascular plant
<i>Crepis foetida</i>	Stinking Hawk`s-beard	Higher plants	Vascular plant
<i>Crepis mollis</i>	Northern Hawk`s-beard	Higher plants	Vascular plant
<i>Cynoglossum germanicum</i>	Green Hound`s-tongue	Higher plants	Vascular plant
<i>Cyperus fuscus</i>	Brown Galingale	Higher plants	Vascular plant
<i>Cypripedium calceolus</i>	Lady`s Slipper Orchid	Higher plants	Vascular plant
<i>Dactylorhiza incarnata subsp. ochroleuca</i>	Early Marsh-orchid	Higher plants	Vascular plant
<i>Coeloglossum viride</i>	Frog Orchid	Higher plants	Vascular plant
<i>Damasonium alisma</i>	Starfruit	Higher plants	Vascular plant
<i>Dianthus armeria</i>	Deptford Pink	Higher plants	Vascular plant
<i>Dryopteris cristata</i>	Crested Buckler-fern	Higher plants	Vascular plant
<i>Epipactis sancta</i>	Lindisfarne Helleborine	Higher plants	Vascular plant
<i>Eryngium campestre</i>	Field Eryngo	Higher plants	Vascular plant
<i>Euphrasia anglica</i>	Glandular Eyebright	Higher plants	Vascular plant
<i>Euphrasia ostenfeldii</i>	An Eyebright	Higher plants	Vascular plant
<i>Euphrasia pseudokernerii</i>	Chalk Eyebright	Higher plants	Vascular plant
<i>Euphrasia rivularis</i>	An Eyebright	Higher plants	Vascular plant

<b>Taxon name</b>	<b>Common name</b>	<b>Species grouping</b>	<b>Taxon group</b>
<i>Euphrasia rostkoviana</i> subsp. <i>montana</i>	An Eyebright	Higher plants	Vascular plant
<i>Euphrasia vigursii</i>	An Eyebright	Higher plants	Vascular plant
<i>Fallopia dumetorum</i>	Copse-bindweed	Higher plants	Vascular plant
<i>Filago lutescens</i>	Red-tipped Cudweed	Higher plants	Vascular plant
<i>Filago pyramidata</i>	Broad-leaved Cudweed	Higher plants	Vascular plant
<i>Fumaria purpurea</i>	Purple Ramping-fumitory	Higher plants	Vascular plant
<i>Galeopsis angustifolia</i>	Red Hemp-nettle	Higher plants	Vascular plant
<i>Galium pumilum</i>	Slender Bedstraw	Higher plants	Vascular plant
<i>Galium tricornutum</i>	Corn Cleavers	Higher plants	Vascular plant
<i>Gentianella anglica</i>	Early Gentian	Higher plants	Vascular plant
<i>Gentianella campestris</i>	Field Gentian	Higher plants	Vascular plant
<i>Gentianella ciliata</i>	Fringed Gentian	Higher plants	Vascular plant
<i>Gentianella uliginosa</i>	Dune Gentian	Higher plants	Vascular plant
<i>Helianthemum oelandicum</i> subsp. <i>levigatum</i>	A Hoary Rock-rose	Higher plants	Vascular plant
<i>Herminium monorchis</i>	Musk Orchid	Higher plants	Vascular plant
<i>Hieracium</i> sect. <i>Alpestris</i>	Hawkweeds	Higher plants	Vascular plant
<i>Hieracium subgracilentipes</i>	A Hawkweed	Higher plants	Vascular plant
<i>Hordeum marinum</i>	Sea Barley	Higher plants	Vascular plant
<i>Iberis amara</i>	Wild Candytuft	Higher plants	Vascular plant
<i>Illecebrum verticillatum</i>	Coral-necklace	Higher plants	Vascular plant
<i>Juncus pygmaeus</i>	Pygmy Rush	Higher plants	Vascular plant
<i>Juniperus communis</i>	A Juniper	Higher plants	Vascular plant
<i>Juniperus communis</i> subsp. <i>hemisphaerica</i>	A Juniper	Higher plants	Vascular plant
<i>Lactuca saligna</i>	Least Lettuce	Higher plants	Vascular plant
<i>Leersia oryzoides</i>	Cut-grass	Higher plants	Vascular plant
<i>Liparis loeselii</i>	Fen Orchid	Higher plants	Vascular plant
<i>Lobelia urens</i>	Heath Lobelia	Higher plants	Vascular plant
<i>Lolium temulentum</i>	Darnel	Higher plants	Vascular plant
<i>Luronium natans</i>	Floating Water Plantain	Higher plants	Vascular plant

<b>Taxon name</b>	<b>Common name</b>	<b>Species grouping</b>	<b>Taxon group</b>
<i>Luzula pallidula</i>	Fen Wood-rush	Higher plants	Vascular plant
<i>Lycopodiella inundata</i>	Marsh Clubmoss	Higher plants	Vascular plant
<i>Lythrum hyssopifolia</i>	Grass-poly	Higher plants	Vascular plant
<i>Matthiola sinuata</i>	Sea Stock	Higher plants	Vascular plant
<i>Melampyrum cristatum</i>	Crested Cow-wheat	Higher plants	Vascular plant
<i>Melittis melissophyllum</i>	Bastard Balm	Higher plants	Vascular plant
<i>Mentha pulegium</i>	Pennyroyal	Higher plants	Vascular plant
<i>Minuartia hybrida</i>	Fine-leaved Sandwort	Higher plants	Vascular plant
<i>Monotropa hypopitys</i>	Yellow Bird`s-nest	Higher plants	Vascular plant
<i>Monotropa hypopitys subsp. hypophegea</i>	Bird`s-nest	Higher plants	Vascular plant
<i>Monotropa hypopitys subsp. hypopitys</i>	Yellow Bird`s-nest	Higher plants	Vascular plant
<i>Muscari neglectum</i>	Grape-hyacinth	Higher plants	Vascular plant
<i>Najas flexilis</i>	Slender Naiad	Higher plants	Vascular plant
<i>Najas marina</i>	Holly-leaved Naiad	Higher plants	Vascular plant
<i>Orchis ustulata</i>	Burnt Orchid	Higher plants	Vascular plant
<i>Oenanthe fistulosa</i>	Tubular Water-dropwort	Higher plants	Vascular plant
<i>Ophrys insectifera</i>	Fly Orchid	Higher plants	Vascular plant
<i>Orchis simia</i>	Monkey Orchid	Higher plants	Vascular plant
<i>Orobanche picridis</i>	Oxtongue Broomrape	Higher plants	Vascular plant
<i>Phyteuma spicatum</i>	Spiked Rampion	Higher plants	Vascular plant
<i>Pilularia globulifera</i>	Pillwort	Higher plants	Vascular plant
<i>Platanthera bifolia</i>	Lesser Butterfly-orchid	Higher plants	Vascular plant
<i>Poa glauca</i>	Glaucous Meadow-grass	Higher plants	Vascular plant
<i>Polystichum lonchitis</i>	Holly-fern	Higher plants	Vascular plant
<i>Potamogeton acutifolius</i>	Sharp-leaved Pondweed	Higher plants	Vascular plant
<i>Potamogeton compressus</i>	Grass-wrack Pondweed	Higher plants	Vascular plant
<i>Pseudorchis albida</i>	Small-white Orchid	Higher plants	Vascular plant
<i>Puccinellia fasciculata</i>	Borrer`s Saltmarsh-grass	Higher plants	Vascular plant
<i>Pulicaria vulgaris</i>	Small Fleabane	Higher plants	Vascular plant



<b>Taxon name</b>	<b>Common name</b>	<b>Species grouping</b>	<b>Taxon group</b>
<i>Pulmonaria obscura</i>	Suffolk Lungwort	Higher plants	Vascular plant
<i>Pulsatilla vulgaris</i>	Pasqueflower	Higher plants	Vascular plant
<i>Pyrus cordata</i>	Plymouth Pear	Higher plants	Vascular plant
<i>Ranunculus arvensis</i>	Corn Buttercup	Higher plants	Vascular plant
<i>Ranunculus tripartitus</i>	Three-lobed Water-crowfoot	Higher plants	Vascular plant
<i>Rumex rupestris</i>	Shore Dock	Higher plants	Vascular plant
<i>Salix lapponum</i>	Downy Willow	Higher plants	Vascular plant
<i>Salsola kali subsp. kali</i>	Prickly Saltwort	Higher plants	Vascular plant
<i>Saxifraga hirculus</i>	Yellow Marsh Saxifrage	Higher plants	Vascular plant
<i>Scandix pecten-veneris</i>	Shepherd's Needle	Higher plants	Vascular plant
<i>Schoenoplectus triqueter</i>	Triangular Club-rush	Higher plants	Vascular plant
<i>Scirpoides holoschoenus</i>	Round-headed Club-rush	Higher plants	Vascular plant
<i>Scleranthus annuus</i>	Annual Knawel	Higher plants	Vascular plant
<i>Scleranthus perennis subsp. prostratus</i>	Prostrate Perennial Knawel	Higher plants	Vascular plant
<i>Senecio paludosus</i>	Fen Ragwort	Higher plants	Vascular plant
<i>Silene gallica</i>	Small-flowered Catchfly	Higher plants	Vascular plant
<i>Silene otites</i>	Spanish Catchfly	Higher plants	Vascular plant
<i>Sium latifolium</i>	Greater Water Parsnip	Higher plants	Vascular plant
<i>Sorbus bristoliensis</i>	A Whitebeam	Higher plants	Vascular plant
<i>Sorbus eminens</i>	A Whitebeam	Higher plants	Vascular plant
<i>Sorbus subcuneata</i>	A Whitebeam	Higher plants	Vascular plant
<i>Sorbus vexans</i>	A Whitebeam	Higher plants	Vascular plant
<i>Sorbus wilmottiana</i>	A Whitebeam	Higher plants	Vascular plant
<i>Spartina maritima</i>	Small Cord-grass	Higher plants	Vascular plant
<i>Stellaria palustris</i>	Marsh Stitchwort	Higher plants	Vascular plant
<i>Tephrosieris integrifolia subsp. integrifolia</i>	Field Fleawort	Higher plants	Vascular plant
<i>Teucrium scordium</i>	Water Germander	Higher plants	Vascular plant
<i>Thlaspi perfoliatum</i>	Cotswold Pennycress	Higher plants	Vascular plant
<i>Torilis arvensis</i>	Spreading Hedge Parsley	Higher plants	Vascular plant

<b>Taxon name</b>	<b>Common name</b>	<b>Species grouping</b>	<b>Taxon group</b>
<i>Valerianella rimosa</i>	Broad-Fruited Corn Salad	Higher plants	Vascular plant
<i>Veronica triphyllos</i>	Fingered Speedwell	Higher plants	Vascular plant
<i>Veronica verna</i>	Spring Speedwell	Higher plants	Vascular plant
<i>Viola lactea</i>	Pale Dog-violet	Higher plants	Vascular plant
<i>Viola persicifolia</i>	Fen Violet	Higher plants	Vascular plant
<i>Woodsia ilvensis</i>	Oblong Woodsia	Higher plants	Vascular plant

## Appendix 4: Section 41 of the Natural Environment and Rural Communities (NERC) Act 2006 - Habitats of Principal Importance in England

Broad habitat	Habitat name
Arable and horticulture	Arable field margins
Arable and horticulture	Traditional orchards
Boundary	Hedgerows
Coastal	Coastal saltmarsh
Coastal	Coastal sand dunes
Coastal	Coastal vegetated shingle
Coastal	Intertidal mudflats
Coastal	Maritime cliff and slopes
Coastal	Saline lagoons
Freshwater	Aquifer-fed naturally fluctuating water bodies
Freshwater	Eutrophic standing waters
Freshwater	Mesotrophic lakes
Freshwater	Oligotrophic and dystrophic lakes
Freshwater	Ponds
Freshwater	Rivers
Grassland	Lowland calcareous grassland
Grassland	Lowland dry acid grassland
Grassland	Lowland meadows
Grassland	Purple moor-grass and rush pastures
Grassland	Upland calcareous grassland
Grassland	Upland hay meadows
Heathland	Lowland heathland
Heathland	Mountain heaths and willow scrub
Heathland	Upland heathland
Inland rock	Calaminarian grasslands

Broad habitat	Habitat name
Inland rock	Inland rock outcrop and scree habitats
Inland rock	Limestone pavements
Inland rock	Open mosaic habitats on previously developed land
Marine	Blue mussel beds
Marine	Estuarine rocky habitats
Marine	Fragile sponge and anthozoan communities on subtidal rocky habitats
Marine	Horse mussel beds
Marine	Intertidal boulder communities
Marine	Intertidal chalk
Marine	Maërl beds
Marine	Mud habitats in deep water
Marine	Peat and clay exposures
Marine	<i>Sabellaria alveolata</i> reefs
Marine	<i>Sabellaria spinulosa</i> reefs
Marine	Seagrass beds
Marine	Sheltered muddy gravels
Marine	Subtidal chalk
Marine	Subtidal sands and gravels
Marine	Tide-swept channels
Wetland	Blanket bog
Wetland	Coastal and floodplain grazing marsh
Wetland	Lowland fens
Wetland	Lowland raised bog
Wetland	Reedbeds
Wetland	Upland flushes, fens and swamps
Woodland	Lowland beech and yew woodland
Woodland	Lowland mixed deciduous woodland
Woodland	Upland mixed ashwoods
Woodland	Upland oakwood

Broad habitat	Habitat name
Woodland	Wet woodland
Woodland	Wood-pasture and parkland