

The Friends of Hill Hook LNR



Hill Hook Local Nature Reserve Conservation Management Plan 2022 – 2027

Final - 09/10/2023

Hill Hook Local Nature Reserve

Conservation Management Plan 2022 – 2027

Produced by the Birmingham & Black Country Wildlife Trust





Executive Summary



Contents

Introduction	6
Vision Statement	7
General Information	7
Nature Conservation and other Designations	8
Management and Responsibilities	9
Current Access and Infrastructure	9
Community and Education	9
Funding	10
Site Description and History	11
Principles of the Management Plan	16
Aims of the Management Plan	17
Recording and Management Compartments	18
Compartment Map	19
Compartment Descriptions, Maps and Management Actions	20
Compartment 1: Semi-natural wet woodland	21
Compartment 2: The Mill Pool and surrounds	26
Compartment 3: The central area of woodland and watercourse	31
Compartment 4: The area between Hill Hook Road and Blake Street	35
Management Actions – Work Plan	41
Management Actions – Other actions	55
Species Lists	56
Appendix 1 – Management work and Visitor Survey	72
Appendix 2 – First year work programme	74
Record of Management Actions	76

Introduction

- Hill Hook comprises approximately 8.4 hectares (20.8 acres) located in the northern suburbs of Sutton Coldfield and within the city boundary of Birmingham.
- The site is public open space and is a designated Local Nature Reserve, parts of the site are also designated as either SLINC or SINC^[1]. The site is owned and managed by Birmingham City Council (BCC), under the umbrella of the Sutton Park rangers and also the Parks Department.
- The Friends of Hill Hook LNR run volunteer work parties on the site, with the agreement of BCC and have commissioned this management plan.
- This Conservation Management Plan has been produced by The Birmingham & Black Country Wildlife Trust with the support of EcoRecord^[2].
- The management plan describes the current state of the reserve, highlights and evaluates its most important features and prescribes a series of actions that have been designed to maximise these assets.
- The role of the management plan is to ensure the future protection and enhancement of the ecological, social and educational value of the reserve and the aim is that Hill Hook Local Nature Reserve will be recognised as an example of good management, combining best nature conservation practice with high standards of access, interpretation and educational use.
- Known previous surveys and management plans are as follows:
 - 1989 SINC Citation
 - 1990 Local Site Survey
 - 1990 Management Plan (referenced in the 2002 Management Plan, but not seen by the author of this current document)
 - o 2002 Management Plan
 - 2014 Management Plan, updated in 2019
- The funding for the production of this management plan is part of a wider 'Awards for All' project, which aimed to update the site's Habitat surveys as well as to help people enjoy the site by updating the site leaflet and installing a new interpretation panel.
- This Conservation Management Plan does not cover the responsibilities and ongoing work carried out by the landowner, Birmingham City Council. This is implicit in the remainder of this document.

[2] EcoRecord is the ecological records centre for Birmingham & the Black Country.

^[1] Sites of Importance for Nature Conservation (SINCs) and Sites of Local Importance for Nature Conservation (SLINCs) are locally designated non statutory Local Wildlife Sites. SINCs are defined as Sites of substantive nature conservation value in the context of Birmingham & The Black Country. SLINCs are defined as Sites of substantive nature conservation value in the context of a metropolitan borough. Local Nature Reserves (LNRs) are a statutory designation made under Section 21 of the National Parks and Access to the Countryside Act 1949. To qualify for LNR status, a site must be of importance for wildlife, geology, education or public enjoyment. They makes an important contribution to England's biodiversity (Natural England 2022).

Vision Statement

Conserve and Enhance Biodiversity

Hill Hook is an outstanding site with a wide variety of habitats and this makes it a very special place. The aim of the partners involved in the site's protection, monitoring and management is to conserve and enhance the biodiversity of the reserve.

Access, Education and Recreation

Hill Hook has is a valuable resource for the local community and has the potential to be for schools and other groups. Management of this aspect of the site will be targeted on maintaining access and ensuring that is it well-kept. The Friends group have done a lot of recent work on enabling access and installing high quality infrastructure such as recycled plastic boardwalks through the wet woodland.

There is the opportunity for schools and other groups to be helped to learn about the site, including historical aspects and to recognise its educational value.

Forge Partnerships

Partnerships between the landowner, local organisations, groups and individuals are important to maximise the benefits that Hill Hook LNR may bring to wildlife, local residents and the wider community.

Spread the Word

Awareness and understanding of the value of Hill Hook Local Nature Reserve are vital for the protection and maintenance of the reserve for wildlife and for people. The value of the reserve for wildlife and for people should be promoted to a wide audience.

General Information

Grid Reference: SK105003

Planning authority: Birmingham City Council

Wards: Sutton Mere Green

Constituency: Sutton Coldfield

EcoRecord Reference: BM001

Nature Conservation and other Designations

- 1. The site is a public open space and is designated a Local Nature Reserve (2022 Natural England LNR records).
- 2. Proposals for the site to become a Local Nature Reserve began in 1987 and Hill Hook became a Local Nature Reserve (LNR) in 1992 with the LNR designation later extended to include the area north of Hill Hook Road to Blake Street. The 2002 Management Plan states that the site's LNR 'status has not been made public many people are not aware of the designated status of the site'. Part of the site (south of Hill Hook Road) was also declared a Site of Importance for Nature Conservation (SINC) in 1990. Another part of the site (a section of the LNR north of Hill Hook Road) was also designated a Site of Local Importance for Nature Conservation (SLINC) in 1990.

Site of Importance for Nature Conservation (SINC) and Site of Local Importance for Nature Conservation (SLINC)

- 3. Local Sites systems operate throughout England for the purpose of conferring a level of protection to those sites of substantive nature conservation value that are not otherwise covered by national or international designations (such as Site of Special Scientific Importance or Local Nature Reserve). The first Local Sites schedule for Birmingham and the Black Country was introduced in 1977, and sites have been protected ever since by a succession of local planning policy and nature conservation strategies. This non-statutory system is intended to be comprehensive (i.e. all sites should be selected which meet the criteria), whereas statutory designation systems such as Special Protection Areas, Special Areas of Conservation, Ramsar sites and Sites of Special Scientific Interest are intended to provide a representative suite of sites.
- 4. In Birmingham and the Black Country, Local Sites encompass what are termed Sites of Importance for Nature Conservation (SINCs) and Sites of Local Importance for Nature Conservation (SLINCs). This twotier system aims to ensure that all sites of substantive local nature conservation value are selected by assessing sites in both a sub-regional (i.e. Birmingham and the Black Country) and metropolitan borough context (either Birmingham, Dudley, Sandwell, Walsall or Wolverhampton):

Sites of Importance for Nature Conservation (SINCs) - Sites of substantive nature conservation value in the context of Birmingham and the Black Country

Sites of Local Importance for Nature Conservation (SLINCs) - Sites of substantive nature conservation value in the context of a metropolitan borough.

5. Importantly Local Sites are *not* assessed in a regional or national context.

Local Nature Reserve (LNR)

6. A LNR is a site which is for both people and wildlife – they offer special opportunities to enjoy, study or learn about nature. To qualify for LNR status, a site must be of importance for wildlife, geology, education or public enjoyment and the main aim must be to care for the natural features which make the site special (Natural England, 2013).

Management & Responsibilities

- 7. The land is owned by Department of Leisure and Culture, Birmingham City Council. They also own the land, which is leased to the Sutton Four Oaks Cricket Club and the land between Hill Hook Road and Blake Street to the west of the Bourne Brook.
- 8. The rangers of Sutton Park regulate the reserve, carry out risk assessments and tree safety visits and investigate any problems that are brought to their attention such as vandalism and fires. Birmingham Council, Parks and Nature Conservation division are responsible for maintenance/mowing regime of the main footpath from Netherstone Grove to Bradgate Drive, amenity grassland and grass embankment along the dam.

Current Access & Infrastructure

- 9. There are access points to the reserve off Hill Hook Road, Bradgate Drive and Netherstone Grove on to the dam, which is topped by a surfaced path, which runs approximately east to west across the site. There is access from Balmoral Road and Sandhurst Road into the wet woodland at the southern end of the site. There is also an access point off Hill Hook Road. The northern end of the reserve can be accessed from Hill Hook Road and from Blake Street and a circular, unsurfaced, natural path runs between these two points. Dropped kerbs would be useful to aid access across the road.
- 10. There is a network of mostly unsurfaced, natural paths across the remainder of the site and a number of bridges and boardwalks in the southern, wet woodland and on the western side of the pool, all of which have been installed through funding obtained by the Friends group and recently refurbished with recycled plastic structures.
- 11. There is a flight of steps from the top of the dam down into the woodland on the northern side of the dam. A second, decrepit flight of steps in this area has recently been removed. The site has a number of sections of timber post and rail fencing, trip rails and other structures including benches and litter bins (maintained by BCC). There are also currently 2 interpretation panels and a noticeboard, with a further interpretation panel due to be installed in the meadow area.
- 12. Within Hill Hook there are two storm drains situated within the amenity grassland. The occurrence of manhole covers and the outlet of a storm drain show evidence of this. As part of the 2002 management planning process all service providers were contacted for details of their service infrastructure, if any, located on the site.

Community & Education

13. Hill Hook Local Nature Reserve is a valuable resource for the local community, but is currently underutilised by schools and other groups. This is likely to be due to a number of factors including: perception of the site and misuse, lack of awareness of the site's existence and a lack of understanding of how to use the site.

- 14. All aspects of the National Curriculum can be taught using the natural environment as a resource but schools are likely to need support and encouragement from outside agencies such as the Wildlife Trust. The site illustrates ecological concepts such as succession and stream processes, and can and should be used to educate local children. The site is also important in historical terms such as its archaeological features and the mill. Informal activities such as Out of Hours Learning and guided walks provide further opportunities. The lack of parking, toilets and indoor facilities should be taken into account by schools and groups when planning and advertising sessions and opportunities
- 15. The more the site is used for educational purposes the more valued it will be. It is important that local children be given the opportunity to interact with and explore the site. As well as enriching their learning experience this will hopefully lead to the site being more valued and less prone to misuse.
- 16. The Birmingham & Black Country Wildlife Trust staff currently support the Friends of Hill Hook LNR in running regular weekend volunteer sessions, funded by the various grants obtained by the Friends group. This is attended by a few dedicated and regular volunteers but would benefit from further recruitment, especially of younger people and those from a more diverse range of backgrounds to represent the whole of the local community.
- 17. The Friends group also work in partnership with other local organisations and groups including Sutton Town Council, Sutton in Bloom, BrumBats and have made links recently with local voluntary groups aiming to adopt railway stations and improve them for wildlife. Other opportunities include making links with natural history and history societies and to extend invitations to the site for surveys and guided walks.
- 18. In terms of public visitors, the majority of visitors are expected to be local visitors coming from within the immediate area and utilising Hill Hook LNR as a local amenity. A visitor numbers survey for 2021-22 gave a calculated figure of nearly 108,000 visitors per year (See Appendix 1). Some are people who will typically visit regularly and who will look on interpretation mainly as a reassurance of the site's status. Others will be first time or irregular visitors, interpretation will be a way of raising their awareness and encouraging them to continue to visit. The 2002 Management Plan references a visitor/ user survey undertaken at the site in April 2002, which 'identified that, as one would expect, the main use by local residents is for exercising dogs, walking, jogging and as a cut through to areas surrounding the reserve via its exits'.
- 19. In encouraging the local community to visit the site, the aim is to raise their general awareness of the multi-faceted value of sub-urban natural green spaces and to encourage them to value and look after their local area.
- 20. Overall, the aim is to involve more people, more frequently and in a way which is constructive and beneficial to the health of the wildlife of the site and the people that use it.

Funding

21. Funding for work on the site is mainly through applications made by the Friends of Hill Hook LNR.

Site Description and History

22. Information here has been taken from the Hill Hook Local Nature Reserve, Sutton Coldfield Management Plan 2002-2008 produced by The Birmingham & Black Country Wildlife Trust. Full site species lists are at the end of this plan. These were provided by EcoRecord (2022) and through site surveys undertaken for the production of this plan (The Birmingham & Black Country Wildlife Trust, 2021-22)

Archaeology, Local History and Planning History

- 23. Hill Hook corn mill was the most northerly of Sutton's mills, lying close to the source of the Bourne Brook. The first record of the mill dates back to 1671 by a record of Oliver Cartwright, Miller at Hill Hook and is over 300 years old. The purpose of the mill was to grind corn for local farmers and nearby residents and was still in working order in the 1960's. The mill consisted of the actual mill and an adjoining cottage. The stream was dammed to form a mill pool of approximately 1.2 hectares to provide power, as the water supply was poor so near the source. It has been recorded that it was stocked with fish around 1700. The pool and its surrounding fields (now residential development) were popular for recreation. Hill Hook mill was already well known before the First World War and was a popular destination for Sunday school outings, arriving by train via Blake Street Station.
- 24. Fishing and boating (skating in winter) were enjoyed at the pool and in the early 1900's swings and roundabouts were installed by William Taylor located on the field overlooking the mill pool. Taylor was not concerned with milling or farming and relied heavily upon recreational use (taken from a report from Birmingham & Warwickshire Archaeological Society and K. Williams (1982) of the Sutton Coldfield Local History Research Group).
- 25. In 1968, the caretaker, Mr. Medlam was forced to leave the mill due to ill health. The mill was left vacant and fell victim to neglect, vandalism and arson. Eventually, in 1970, the mill was demolished.
- 26. In 1980, Birmingham City Council (BCC) purchased the land around the mill pool for use as an open space and Nature Reserve. The remains of the mill were discovered whilst undertaking engineering work, required to make the dam safe.
- 27. In late 1982, a mill wheel buried in-situ at Hill Hook, was found by Engineers from BCC. The Birmingham and Warwickshire Archaeological Society (BWAS) were informed, as the wheel was threatened by plans to strengthen the mill pool dam and to improve the outflow channel. However, exploratory work showed that recovery of the archaeological feature was beyond its means. In 1983, work began on the Manpower Services Commission (MSC) scheme, to excavate the water wheel pit and adjacent machinery cellar. During the spring and summer, the BWAS field group conducted a survey of the mill remains. It was during this time the water wheel and mill foundations that used to mark the site where the mill once stood were removed. However, although complete when buried, only three quarters of the wheel was found intact, vandalism had removed the exposed upper part. The site has now been back-filled and partly covered by a new outflow. The cellar walls have been capped with a small garden within. Four of the old mill stones used to from a small bridge near the outlet of the pool but were vandalized and no longer exist. Today, one of the old mill stones and a plaque marks the site in the brick built seating area just to the right of the entrance from Netherstone Grove.

- 28. Although the MSC scheme lacked full archaeological supervision, a significant amount of evidence was recovered. The full findings of the field group can be found within the Transactions of Birmingham & Warwickshire Archaeological Society article (1983-4, vol. 93). From these findings, a new interpretation of the history of the mill was constructed. The investigation excavated a number of important features and allowed reconstruction and more information to be produced of the axle, stair, rear and tail race walls, water wheel pit and outflow. The full length of the culvert of the outflow still survives, although choked with debris, running parallel to the face of the dam. A large marl pit was discovered on the hill to the west of the mill, thought to have been created in 1800, based on information collected in the 1861 census (BWAS).
- 29. The City Engineers scheme also included the desilting of the pool. However, before any work could take place, a causeway, running parallel to the dam at a distance of approximately 50m had been exposed from the time the pool had been drained in 1980. The 1811 plan of Hill Hook showed a row of trees across the pool following the causeway. From this information a presumption of the age of the causeway could be assumed. It is thought that the causeway was the former dam which was abandoned, when in 1767, permission was granted to enlarge the pool, creating the present dam structure. The siting of the new dam, below the confluence of two streams, increased the size of the pool to 1.2 hectares and also the flow to it. Desilting of the pool exposed the whole of the old dam and it was also found that the stumps of the trees marked on the 1811 map had survived. The dam stretched from the eastern bank to the headland, having a width of 6 to 9 m and average height of 1.5m.
- 30. There have been disputes surrounding the age and position of the mill. The normal position of a mill is beside it's pool, which is not the case at Hill Hook, suggesting that a previous mill existed before the pool was enlarged. Another suggestion is that before the enlarging of the pool, the mill had a mill leet, connecting the mill to the present dam site. This would have only been resorted to if the old dam site could not have provided a sufficient amount of fall of water. Therefore, if the disputes are to resolved, further investigations need to be carried out.
- 31. Another finding was a 17th Century clay tobacco pipe bowl, discovered in the upper layers of the wheel pit. Although the MSC team was largely inexpert at the recovery of small artefacts, the impression gained during the excavation was that many had been removed by passers by.
- 32. From the archaeological evidence recovered during the excavation, it has been suggested that the Hill Hook settlement had been established between 1530 and 1580 on open land, eventually being surrounded by new farms and enclosures. Documentary evidence dates the mill back to the mid 17th Century and suggests farming was an important activity at the site as well as milling. The mill was of modest size which meant it was unlikely to attract a high volume of business. Farming would have provided an alternative income. Early in the 20th Century, the water wheel ceased to move the machinery and recreational potential of the site was exploited as a source of income (Hill Hook Corn Mill- Birmingham & Warwickshire Archaeological Society and K. Williams (1982) of the Sutton Coldfield Local History Research Group).
- 33. In 2002, an earth bank along the southern boundary of the pool was brought to the attention of the city archaeologist who stated that it is of local archaeological importance.
- 34. The area surrounding the Mill Pool has been subject to the threat of development. In 1983, a planning application for the development of residential housing adjacent to Balmoral Road (and creation of Netherstone Grove) was allowed to go ahead despite objections. This was followed by development

Final - 09/10/2023

of the southern and western boundaries of the reserve by Barratt developments and Clark Homes Ltd. The land adjacent to Hill Hook Road has also been subject to the threat of development. In 1983, an application for housing was submitted for this area. However, the plan did not get approval, though the area adjacent to the western side of the land has been developed.

35. The dam, mill pool and mill site are all of high local archaeological importance, according to the 2002 Management Plan. The archaeological features on site can be used as an educational tool and bring an important cultural and historical element to the interpretation of the site.

Habitats

36. The main habitats within this site are wet woodland, scrub, grassland, tall herb/scrub, hedgerows, stream and open water. Together these provide structural diversity within the site, which considerably enhances the range of species likely to occur there. The proximity of these habitats to one another is a significant feature particularly for those species that are dependent on the presence of more than one habitat for survival. The position of the reserve within the wider landscape and its connectivity to the wider landscape are also important to the site's value and to allow the movement of wildlife populations between sites. This is critically important to allow movement in response to climate change, loss of habitats and for gene flow between populations. Site management plans should take the connections between sites into account and plan for management to ensure nectar availability across the wider area and management of watercourses to ensure management does not adversely affect habitats downstream).

Woodland

- 37. The wet Alder carr habitat is very rare in the Birmingham region. Factors affecting this habitat type are the lowering of the water table, flood prevention measures, waterborne pollution and unsympathetic management. The woodland is low lying and tends to be wet all year with numerous pits, trenches and hollows filled with swamp vegetation. Woodland, dead wood and stream habitats are all noted as in need of protection and appropriate management within Birmingham and the Black Country (Birmingham and the Black Country Action Plans, 2000).
- 38. The canopy is varied in age and structure, dominated almost entirely by Alder. Crack Willow and Birch were also frequent while Sycamore, Beech, Ash, Pedunculate Oak and White Willow are also present. The 1990 survey identified a good shrub layer within the wood with an abundance of Guelder Rose and frequent Rowan, Holly, Crack Willow, Sallow, Elder, Dog Rose, Hawthorn and Sycamore. These were still present in 2022, though, unfortunately, some unsanctioned management work in this area of the woodland has adversely affected the shrub layer in parts.
- 39. The creation of a circular path through this area since the last management plan has opened this area up to public access, increasing the appreciation of the woodland by the public. To limit disturbance and also compaction of the ground to the detriment of the habitat, access work in this area should now focus on maintaining paths to limit any tendency to widen paths due to avoidance of muddy areas and discouraging any access off paths.
- 40. The field layer varies floristically depending upon the dampness of the wood, with the wetter areas containing the most diverse field layer including species only found in wetter habitats such as

Opposite-leaved Golden Saxifrage and Large Bittercress. There are also historical records for Marsh Valerian (very rare in the conurbation outside Sutton Park) but this was not recorded in the 1990 survey. The plant community, very typical of wet Alder carr, is a very rare habitat in the conurbation. In the 1990 survey, herbs were well represented in most parts, but the 2002 Management Plan reports a deterioration in the field layer. The tendency for further drying out through a variety of factors, can only detrimentally impact this habitat.

- 41. An area of dry woodland occurs at the eastern end of the boundary with the cricket club, containing a number of old hazel stools, which adds to the impression that some of the woodland to the south of the pool is of ancient origin.
- 42. Other areas of woodland include a long narrow woodland spit, north of the dam, which follows the brook course and to the south of this, stands of drier secondary woodland. The 2002 Management Plan reports that Aspen was locally common here. The rest of this area comprises immature secondary woodland including Pedunculate Oak, Common Alder and Ash, but to the north-west is dominated by mature Hawthorn. The 2002 Plan suggests that this has developed on old grassland probably very similar to the fields north of Hillhook Road. The 1990 surveys identified some herb rich grassland communities in the wetter parts of this area, which included ragged robin, horsetails, marsh marigold, and floating sweet grass. The 2002 Management Plan reports that 'the canopy had since developed and these communities were being lost through shading, drier conditions and, hence, invasion by Bramble'.
- 43. On the south-western edge of the pool is a further area of dry woodland. This transitions into an area of marsh along the west side of the pool, upon which has developed a narrow band of Willow carr, currently used by nesting Mute Swans.
- 44. There are also areas of relatively young, dry woodland in the area of the reserve to the north of Hill Hook Road, including a block of apparently planted woodland dominated by Ash.

Streams, pool and marginal vegetation

- 45. The main hydrological features are the old mill pond with adjacent areas of damp woodland and the Bourne Brook. The former pool, before it was enlarged in the late 18th century, was fed by just one stream. However, the present dam structure was sited below the confluence of two streams; thereby the flow into the pool was largely increased. The pool itself has two small islands at the centre, which were created from the remains of the original dam during desilting in the late 1980s, which left two small central sections, which were then converted into the islands, under the supervision of the BCC Ranger Service. These are currently heavily vegetated. At the north-eastern end of the dam the sluice has been rebuilt and gabions have been placed along the length of the dam. Since then the sluice has been rebuilt a layer of bricks has been knocked off it outer lip which will have lowered the level of the pool by approximately 75mm.
- 46. The mill pool has very rich emergent vegetation on its margins, but little or no floating and submerged aquatic plants. The pool itself is eutrophic as a result of nutrients entering the pool from the stream. Stands of emergent vegetation dominate the edges of the pool but in 2002 were fairly sparse along the dam. These communities are very rich in species particularly on the western edge, where a wide strip of marsh occurs. Species include Great Willowherb, Floating Sweet-grass, Brooklime, Water Mint, Marsh Marigold, sedges, Yellow Iris, Soft Rush, Meadowsweet and Greater Reedmace. Lesser Spearwort, Yellow Loosestrife, Bogbean, Monkey Flower, Pink Purslane and Marsh Cinquefoil were

been recorded in small quantities in previous surveys. Many of these species are scarce or local in Birmingham. Management work since 2014 has included the addition of coir rolls impregnated with marginal plug plants, which are now well established along the dam.

- 47. The 2002 Management Plan states that 'the 1990 Management Plan records that the mill pool supported a wide variety of freshwater fish such as pike, bream, tench, roach and carp and that in 1996 a number of common carp and roach were netted by the Environment Agency and used to restock Blackroot Pool, Sutton Park. Staff from Sutton Park have been involved in enforcing a no-fishing ban on the pool from 1990 to 2002.' The 2002 Management Plan also states that 'in 1990, it was recorded that several large pike were in the pool and were responsible for limiting the breeding success of ducks, geese and particularly the swans. In 1996 Sutton Park rangers netted the pool with the Environment Agency to remove the fish, especially Pike. A considerable amount of carp and roach were removed and relocated to Blackroot Pool. However, whilst netting the fish, a large number of dumped exotic species were found including goldfish, sturget and coi carp. The Environment Agency released these species back into the Hill Hook pool'.
- 48. The brook emerges from a culvert beneath Balmoral Rd at the southernmost point of the Reserve. Its course follows the narrow spit of woodland northwards until it feeds into the millpool. There is a second brook, which also emerges from the culvert from the Sandhurst Road side of the site, which joins the Balmoral arm. The brook continues northwards from the sluice along the eastern boundary of the Reserve until it is culverted under Hill Hook Rd and continues northwards to Blake Street marking the western boundary of Local Authority owned land.
- 49. The stream more or less follows its natural course. There has been some revetment works done to the banks along the section to the north of the dam. The brook is very shallow with a mixed substrate along its length. During high rainfall, the brook can carry much larger amounts of water, which is probably the reason for the above mentioned revetment works. The Bourne Brook continues its course north to Shenstone and then east to the River Tame at Tamworth.

Grassland and tall herb

- 50. There are areas of regularly mown amenity grassland between the pool and Netherstone Grove. These appear unchanged from the 1990 surveys and are composed mainly of Perennial Rye-grass, Yorkshire Fog, Soft Brome and Meadow Foxtail, with herbs including Ribwort Plantain, Red Clover, Creeping Buttercup and Common Cat's-Ear.
- 51. The grasslands at the northern end of the site, beyond Hill Hook Road are managed as species-rich hay meadows, with one hay cut a year, normally in September, which is carried out by BCC or their contractors. In recent years, the management work has been much delayed due to problems with equipment.
- 52. There are also a number of areas of tall herb, including a range of species such as Common Nettle, Rosebay Willowherb and Cow Parsley. These include on the embankment from the dam, through the woodland north of this area and in the area north of Hill Hook Road, including along the brook.

Principles of the Management Plan

Management for Wildlife

The overall aim of conservation management of the site is to preserve and enhance existing habitats using an evidence based approach to create a landscape of sensitively-managed, watercourses, pools, woodlands, permanent grassland and edge habitats, whilst diversifying the range of niches present.

As previously mentioned, the habitats on the reserve, especially the wet woodland include those that are rare and under threat in the local area. The connectivity of the site and the management of the site and the wider landscape are also key to its value for wildlife, now and in the future.

EcoRecord hold species and survey data on Hill Hook LNR, which can be used to inform management actions and to measure their success. Future plans include continuing to add to this body of information, through incidental recording, events, recording and monitoring on volunteer days and involvement of local groups such as BrumBats.

Management for People

Management for people includes ensuring paths are in good condition underfoot and also not overgrown, appropriate signage/interpretation, welcoming entrances, site structures being in good condition and the facilitation of educational use. This can be achieved through on site practical work by the volunteer group, but also through the provision of leaflets and other resources and the running of events and sessions for specific groups.

Nature Conservation Designation

As mentioned, the site is currently a Local Nature Reserve and has areas designated as 'Site of Importance for Nature Conservation' (SINC) and 'Site of Local Importance for Nature Conservation' (SLINC). The management actions contained in this plan aim to protect and/or enhance the levels needed to reach these designations.

Aims of the Management Plan

The overall aims of the management plan are:

- The wildlife using the site and the condition of the habitats is well known via surveying, monitoring and reporting
- The wet woodland remains as a high quality habitat, including marsh/swampy areas
- The effect of people on the habitat is minimal e.g. little foot fall off paths
- The watercourses and pool are in good condition, i.e. with minimal pollution and high naturalness
- Non-native invasive species are at a minimum
- Special species such as Moschatel are monitored and protected
- There is a good amount of dead wood habitat, both standing and on the floor, with fallen trees left whole where possible
- The younger, planted woodland is managed to improve the tree species diversity, incidence of natural regeneration, age structure of the trees, improved shrub layer/physical structure and field layer
- Grasslands are managed as neutral hay meadows and enhanced as necessary
- The creation and maintenance of rides, glades and scallops to ensure connectivity around the site for butterflies and other invertebrates
- The entrances are welcoming spaces
- Paths are well maintained
- People are engaged with the site, informed and knowledgeable about the value of the site and how to use it. They also contribute to its well-being, including by submitting wildlife records.
- Educational use of the site is encouraged and supported

Recording & Management Compartments

The reserve has been divided into the following recording and management compartments. Wherever possible these are based on clear physical features that are likely to remain identifiable for a significant number of years. All subsequent recording of habitats, species, management etc. should follow this system:

- The southern end wet woodland
- The Mill Pool and surrounds
- The central area of woodland and watercourse between the dam and Hill Hook Road
- The area between Hill Hook Road and Blake Street meadows, woodland, stream

Compartment/Sub-compartment
1: Semi-natural wet woodland – the southern area of the site
There are no sub-compartments
2: The Mill Pool and surrounds
2a: the Mill Pool including the overflow
2b: the dam
2c: the garden, amenity grassland and adjacent woodland
3: The central area of woodland and watercourse (between the dam and Hill
Hook Road)
3a: the woodland
3b: the watercourse
4: The area beyond Hill Hook Road
4a: the grasslands
4b: the woodlands, glades and rides
4c: the watercourse

Compartment Map



Compartment Descriptions, Maps and Management Actions

Compartment Descriptions

For each compartment a form has been completed which describes its physical and ecological characteristics and highlights any features of value and/or note. The following information is given:

Site Description - a summary description of the compartment including features such as historic land use, habitats, current management, topography and infrastructure.

Habitats - habitats are listed according to Phase 1 Habitat^[3] category

Work plan – including location, who can carry out the work (i.e. volunteers, staff or contractors) and timing

[3] The Phase 1 Habitat Classification (and associated field survey technique) is a widely used system for recording seminatural vegetation in the UK. It presents a basic assessment of habitat type and potential importance for nature conservation. Each habitat type/feature is identified by way of a brief description of its defining features. It is then allocated a specific name, an alpha-numeric code, and unique mapping colour.

Compartment 1: Semi-natural wet woodland – the southern area of the site

Compartment 1: Semi-natural wet woodland – the southern area of the site

There are no sub-compartments

Habitats		
Phase 1 Name		Phase 1 Code
Broad-leaved Semi-natu	ral Woodland	A111
Woodland is defined as vegetation dominated by trees more than 5m high when mature, forming a distinct, although sometimes open, canopy. Semi-natural woodland comprises all stands, which do not obviously originate from planting. The distribution of species will generally reflect natural variations in the site and its soil (JNCC, 2010). Wet woodland occurs on poorly drained or seasonally wet soils and many alder woods are ancient (UKBAP, 2011).		
(<i>Alnus glutinosa</i>), with some areas of Willow (<i>Salix</i> sp.) and Hazel (<i>Corylus avellana</i>). The field layer includes native Bluebell (<i>Hyacinthoides non-scripta</i>), Wood Anemone (<i>Anemone nemorosa</i>), Opposite-leaved Golden Saxifrage (<i>Chrysosplenium oppositifolium</i>), Moschatel (<i>Adoxa</i> <i>moschatellina</i>) and Large Bitter-cress (<i>Cardamine amara</i>).		
There are some areas of Variegated Yellow Archangel (<i>Lamiastrum galeobdolon subsp.</i> <i>argentatum</i>), occasional Cherry Laurel (<i>Prunus laurocerasus</i>), Snowberry (<i>Symphoricarpos albus</i>), Cotoneaster (<i>Cotoneaster</i> sp.), garden Daffodils (<i>Narcissus</i> sp.), Spanish/hybrid Bluebell (<i>H. x</i> <i>massartiana</i>) and Buddleia (<i>Buddleia davidii</i>).		
Phase 1 Name		Phase 1 Code
Swamp		F1
There are a number of areas within the woodland, with standing water or water just below the surface, containing swamp vegetation including Rushes, Sedges, Large Bitter-cress and species such as Meadowsweet (<i>Filipendula ulmaria</i>) and Marsh-marigold (<i>Caltha palustris</i>).		
Phase 1 Name		Phase 1 Code
Standing Water		G1
There is a small seasonal pool, near the entrance from Sandhurst Road, which is edged with species such as Yellow Flag (<i>Iris pseudacorus</i>).		
Phase 1 Name		Phase 1 Code
Running Water		G2
There are a number of watercourses that run through the area, eventually flowing into the Mill Pool. The water is shallow and the banks are mostly steep and bare of vegetation, although there is some cover of species of wetter habitats such as Opposite-leaved Golden Saxifrage. There are also areas of Ramsons (<i>Allium ursinum</i>) and Lesser Celandine (<i>Ficaria verna</i>). The watercourses enter the site via large culverts and the arm that is closest to Sandhurst Road has a pollution issue, often during rainy weather, which appears to be from a Combined Sewage Outflow (CSO). This is under investigation by the Severn Trent Project Officer assigned to Sutton Park.		
Notes	Moschatel, Opposite-leaved Golden Saxifrage, Lar	ge Bitter-cress

Management objectives:

- 1. The wet woodland remains as a high quality habitat, including marsh/swampy areas
- 2. Natural processes are in charge
- 3. The effect of people on the habitat is minimal
- 4. The watercourses are in good condition, i.e. with minimal pollution and high naturalness

Management approach:

The management approach in this area should be as minimal input as possible.

Management activities:

- 1. Remove/control non-native plant species
 - Variegated Yellow Archangel known locations: between the path and Sandhurst Road (SK 10704 00117) and on the opposite side of the path and along the watercourse, downstream of where the ditch joins the natural watercourse (SK10708 00093, SK10671 00211, SK10619 00278, SK10622 00268, SK10628 00258)
 - b. Snowberry known locations: near entrance from Sandhurst Road (SK10684 00136) and near the boundary with cricket club (SK10612 00176)
 - c. Laurel scattered throughout, including along the two arms of watercourse from where they enter the site to the first bridge/their conjunction
 - d. Himalayan Honeysuckle known location: along the watercourse, near the Variegated Yellow Archangel (SK10628 00258)
 - e. Horse-chestnut control saplings, scattered throughout
 - f. Cotoneaster –scattered throughout
 - g. Sycamore and other non-native Maples control saplings, scattered throughout
 - h. Fringecups *Tellima grandiflora* e.g. in marsh/swampy area and along watercourse
 - i. Consider removal of Buddleia (and replace with mixed native hedgerow) e.g. along boundary with Sandhurst Road
 - j. Other garden species
 - NB Japanese Knotweed monitor and report ONLY requires licenced person to treat with herbicide, do not work within legal distance of stems. Location: just off path on western side of pool, near Swan nesting area (SK10418 00349)
- 2. Monitor condition of whole habitat to ensure that it is not drying out
- 3. Monitor marsh/swampy areas for openness, wetness and vegetation community
- 4. Monitor area of Moschatel and monitor need for occasional control of ivy in this area. Aim to establish Moschatel in other areas of the site in case this area is affected by an incident
- 5. Remove timber (sleepers etc.) store
- 6. Monitor area adjoining Cricket Club where snowberry has been removed and trees/shrubs have been planted: remove any missed or re-growing snowberry and hand weed trees and replace trees that fail to establish, where necessary. Blackthorn has been planted in this area to provide habitat for the Brown Hairstreak butterfly and will need management that is sympathetic to the needs of this species.
- 7. Monitor area adjoining Cricket Club for development of desire lines in area and through to Cricket Club: block if necessary
- 8. Monitor for dumping of green waste etc. by Cricket Club. Ensure watercourses and marshy areas are not polluted by run-off from Cricket Club.

- 9. Monitor coverage of species such as Holly and Bramble these are very valuable species for bird nesting and providing food but can become overly dominant. Coverage is currently less than desirable in some areas.
- 10. Consider coppicing of hazel in block at rear of gardens on Sandhurst Road. Not to take place in year one of plan. If decision is taken to coppice this area, then this block to be added into the coppice rotation for the whole site
- 11. Maintain paths in good condition to ensure people stick to these and do not widen them or take short cuts. This includes restricting access to the watercourse in this block of woodland as the wet soil conditions make access more damaging (i.e. compaction of soil and bank collapses)
- 12. Litter picks, removal of fly tipping. Monitor for dumping over garden fences or other hot spots (including from Sandhurst Road near SK10704 00117). Raise issues with site owners (currently BCC) as necessary.
- 13. Reporting of pollution incidents in watercourse and raising awareness of this with the site users and wider local community. The aim is that the source of the pollution will be identified and resolved.
- 14. Surveys:
 - a. FIN surveys April-September, as per established methodology for this site
 - b. Flowering plant calendar
 - c. Aim to set up a butterfly transect
 - d. Bird surveys
 - e. Aim to commission detailed invertebrate survey

Possible projects to consider:

- 1. Planting of mixed native hedgerow along fence-line bordering Sandhurst Road, with a focus on species that are foodplants for species with specific requirements such as some butterfly and moth caterpillars e.g. Brimstone butterflies and Alder Buckthorn
- 2. Interpretation panel for this area of the site, highlighting its features as a wet woodland (including flooding), its value and vulnerability
- 3. Awareness raising of habitat for Sandhurst residents (e.g. grass cuttings/garden waste dumping over fence and cutting down trees next to houses)
- 4. Awareness raising regarding pollution of watercourse asking public to report sightings
- 5. A more proactive approach to the pollution via contacting and working with Severn Trent Water Limited, the company responsible.
- 6. Consider the introduction of 'leaky dams' into the watercourse. NB this will need consent from the relevant authority (i.e. the local authority or the Environment Agency as appropriate). Leaky dams are a form of natural flood management (known as NFM) and are valuable in slowing the flow of water, which has many benefits to the site itself and beyond. For example, NFM creates areas of deeper and slower moving water, which is a habitat for a number of species, it slows the flow on site meaning more opportunities for in-stream vegetation and also reduced erosion of stream banks, it helps to maintain the wet woodland habitat. It also slows the flow of water out of the site, reducing flooding downstream of the reserve. The reserve has recently lost a number of these valuable features and the replacement of these should be investigated as a priority.
- 7. Projects to enhance the habitat conditions for specialist species such as Willow Tit (linking in with other projects nearby i.e. that based around Middleton Lakes and Tame Valley

Wetlands) and Brown Hairstreak butterfly. Consider species that have previously been recorded on the site, however, also consider the effects of climate change and species that may move north.

- 8. View the site and its habitats on a landscape scale and look for opportunities for linking the site to the wider landscape through corridors, 'stepping stones' and managing (or encouraging the management) of all local sites with similar aims in mind, where appropriate.
- 9. Consider the approach to Spanish and Hybrid Bluebell across the whole site is it appropriate and possible to remove these? If not, can they be removed from areas that are near to the native Bluebell?
- 10. A detailed invertebrate survey is lacking for the site. This is likely to need funding and therefore is likely to need a grant application to be made.



Compartment 2: The Mill Pool and surrounds

Compartment 2: The Mill Pool and surrounds	
2a: the Mill Pool including the overflow	
2b: the dam	
2c: the garden, amenity grassland	

Habitats		
Phase 1 Name	Phase 1 Code	
Broad-leaved Woodland	A111	
The Mill Pool is edged with a strip of Broad-leaved Woodland, which appears to be semi-natural, although there are some, presumably planted trees on the adjoining amenity grassland.		
On the western bank of the pool is an area of wet woodland, dominated by Willow, with a field layer including wetland species such as Yellow Flag. A pair of Mute Swans regularly nest in this area.		
Phase 1 Name	Phase 1 Code	
Scrub – Bramble	A21Rf	
There are occasional patches or Bramble (<i>Rubus fruticosus</i> agg.) around the edge of the Pool, which are very valuable for wildlife.		
Phase 1 Name	Phase 1 Code	
Neutral grassland	B2	
There are small areas of neutral grassland along the dam. These are currentl unmanaged and species-poor.	y generally	
Phase 1 Name	Phase 1 Code	
Tall herb and fern – tall ruderal	C31	
There are some small areas of tall ruderal species such as Common Nettle and Great Willowherb. These are important areas of habitat, for example, as food-plants for moth and butterfly caterpillars.		
Phase 1 Name	Phase 1 Code	
Marginal vegetation	F21	
There is marginal vegetation around some edges of the pool, particularly the eastern (Netherstone Grove) and southern (dam) edges. This is partly due to the introduction of pre- planted coir rolls.		
Phase 1 Name	Phase 1 Code	
Open Water	G1	
The old Mill Pool is a prominent feature of the site. Work was carried out to de-silt the pool, when the surrounding housing estate was built. Silt has built-up, especially near the in-flow stream, where the silt is at the surface of the water. The pool is also probably affected by the pollution that affects the Sandhurst Road arm of the inflow.		

The pool contains a wooded island, which is managed periodically to maintain clear areas for breeding waterfowl and is also to prevent the trees on the edge falling into the pool and collapsing the island.

Phase 1 Name		Phase 1 Code
Amenity grassland		J12
There is an area of amenity grassland that forms a buffer strip between the site and Netherstone Grove. It is currently managed by cutting on a frequent basis and contains little plant species diversity.		
Phase 1 Name		Phase 1 Code
Introduced Shrub		J14
There is a garden managed with wildlife in mind, in the corner of the smaller area of amenity grassland, next to the Mill Pool and the Mill Stone. The garden contains a mixture of garden shrubs and also some herbaceous perennials and bulbs.		
Notes	Snowberry	

Management objectives:

2a: the Mill Pool including the overflow

- 1. The Mill Pool is a valuable area of open water, which is silting up and already appears to have lost some of its value to waterbirds such as Great Crested Grebe, which are no longer seen at the site. Ideally, a good depth and area of open water should be maintained on the site. This will involve de-silting at least part of the pool. Ideally silt would be removed from site but prohibitive costs may mean that the silt cannot be removed. One suggested solution that has been raised is the construction of a gabion wall within the pool to hold back the silt and create a reedbed, which would potentially also help to filter the water. The source of pollution into the Sandhurst arm of the watercourse and therefore into the pool needs to be identified and dealt with before work on the pool should be undertaken.
- 2. The outflow from the pool is the responsibility of the landowner (currently BCC) and any issues that are noted should be raised with them. The outflow is currently deteriorating and appears to need maintenance work.
- 3. The island should be managed to include some tree cover and some bare ground (for nesting waterbirds). The trees on the edge of the island should be felled in rotation (e.g. a third of the trees each time an area of trees is felled) to protect the island edge from collapse.
- 4. The area on the western edge of the pool, where the swans normally nest should be left unmanaged and protected from human access.
- 5. Feeding the ducks and other waterbirds is often seen, and more often than not bread is fed to the birds. This should be discouraged.

2b: the dam

 This area is open and sunny, and due to the function of the dam as a structure holding back water, is likely to need to be kept relatively clear of trees. It is also an area where people sit to enjoy the view, the site and its wildlife. This gives the opportunity to maintain and enhance this area as a diverse and floriferous area, both the bankside vegetation and also the vegetation of the dam itself.

2. There are various infrastructure items on the dam e.g. trip rails, dog and litter bins and benches, some of which are in need of repair, replacement or maintenance. These are the responsibility of the landowner, but the Friends group are also currently working on funding bids to help with these items.

2c: the garden and amenity grassland

- 1. The garden is the main gateway to the reserve and, as such, presents a huge opportunity to engage with site users and to educate regarding the benefits and methods of gardening for wildlife.
- 2. As the main entrance to the reserve, it is also important that this is a welcoming and attractive place.

Management approach:

2a: the Mill Pool including the overflow

The management approach should include appropriate, frequent surveying and monitoring to assess the state of the habitats and the effect of management work. Any plant species introductions should ideally be species that are recorded locally and are of local provenance, although the effects of and the conservation approach to climate change may affect this. The priority is to eliminate or reduce the pollution of the inflow and then to deal with the silting up of the pool. Work on planning this could start immediately. Any issues with the infrastructure should be reported to the landowner when they are noticed.

2b: the dam

The management approach should include appropriate, frequent surveying and monitoring to assess the state of the habitats and the effect of management work. Any plant species introductions should ideally be species that are recorded locally and are of local provenance, with the caveat as mentioned above. The dam should be maintained as an open, sunny ride, with a varied structure, for example including areas of bramble, nettle and tall herb as well as ruderal/bare ground species and species-rich grassland.

2c: the garden and amenity grassland

Maintain the garden as an attractive, welcoming space that has the best possible value for wildlife. Minimise weeding, time pruning so that it is after berries have dropped and after insects have overwintered, no chemical use, use of peat containing products or plants that have been grown in peat containing compost. Plants should be species which are good for wildlife and do not pose a risk to the reserve either through spread or through cross-pollination/hybridisation. Leave at least some prunings/arisings on the soil, to provide shelter for invertebrates.

Aim to encourage the landowner to minimise the number of cuts of the amenity grassland to maximise the number of flowers in this area as per Plantlife's No Mow May campaign and similar.

Management actions:

1. Maintain views from benches with a fringe of trees and marginal wetland vegetation to create marsh-like habitat fringe, especially along the eastern edge.

- 2. Monitor to ensure the area where the Mute Swans breed, on the western edge, is undisturbed by management work or public access.
- 3. Engage with and aim to educate the public regarding feeding the ducks, geese and swans etc.
- 4. Note and report any issues to BCC e.g. signs of pollution, animal welfare issues e.g. bird flu, issues with the condition of the dam or outflow.
- 5. Monitor areas of wetland flora introductions and manage to maintain conditions e.g. remove bramble or other invading species or reduce spread of wetland flora to ensure some areas of bare ground at pool edge.
- 6. Remove/control non-native plant species e.g.
 - a. Snowberry locations: dam centre, near blocked off/removed steps (SK10511 00405) and near the entrance from Bradgate Drive (SK10420 00369)
- 7. Leave Bramble patches untouched, but monitor for spread.
- 8. Maintain the vegetation along the dam as an open floriferous habitat, in the style of a butterfly ride. Aim to manage as a hay meadow, with a cut and remove. Leave areas of 'bare ground' species such as White Deadnettle uncut to encourage flowers being present over as long a time as possible
- 9. Maintain the garden as an attractive wildlife garden. Weed as necessary but do not remove all wildflowers (e.g. Speedwells). Prune shrubs to maintain them to an appropriate size, especially the roses along the path edge. Prune after rose hips have disappeared.
- 10. Maintain paths in good condition to ensure people stick to these and do not widen them or take short cuts
- 11. Carry out litter picks and removal or reporting of fly tipping as necessary. Monitor for dumping over garden fences or other hot spots, raise issues with the Environment Agency as necessary.
- 12. Surveys:
 - a. Flowering plant calendar
 - b. Aim to set up a Butterfly transect
 - c. Bird surveys
 - d. Aim to commission a detailed invertebrate survey

Possible projects to consider:

- 1. Consider de-silting the Mill Pool
- 2. Consider additional improvements to the edge vegetation
- 3. Aim to have trees on island thinned to maintain habitat for nesting waterfowl, especially those trees on the edge of the island to avoid these falling over and collapsing the bank
- 4. Consider project to increase the floral diversity of the dam
- 5. Interpretation panel for the garden
- 6. Plant up garden area with wildlife friendly plants, to standards given in 'Management approach' section above.
- 7. Consider project to develop and enhance the garden and showcase wildlife gardening to the public (e.g. interpretation panels and events). This could include tall raised beds to remove the problems of trampling and also to increase accessibility e.g. for people with disabilities



Compartment 3: The central area of woodland and watercourse (between the dam and Hill Hook Road)

Compartment 3: The central area of woodland and watercourse

3a: the woodland, including the hedgerow along the Hill Hook Road

3b: the watercourse

		hi	+-	
napilals	Ъ	DI	LC	

Phase 1 Name	Phase 1 Code
Broadleaved Woodland – semi-natural	A111

The main habitat between the dam and Hill Hook Road is broad-leaved woodland, which appears to be semi-natural. The canopy is mainly Common Alder, and the mature trees are relatively evenaged. There are also some areas of planted trees, particularly shrub layer trees such as Hazel. There are occasional non-native species such as Cotoneaster in this area. In recent memory, the woodland used to be wetter, but the reason for the current drier nature of the woodland is not known.

The field layer is varied, with areas of Bramble, areas of native Bluebell, areas of mixed flora including Hedge Woundwort (*Stachys sylvatica*), Colts-foot (*Tussilago farfara*), Wood Avens (*Geum urbanum*) and Lesser Celandine and also a large bare area, near the dam. There are also some planted species such as Primrose (*Primula vulgaris*). There is a small stand of Japanese Knotweed (*Fallopia japonica*) near the western boundary, which is being treated by the site owner.

There is also a small area of woodland, next to the garden area, which is included in this compartment. The area is edged by a hedgerow that belongs to the adjoining householder, however, a length of mulch matting has been laid alongside the hedge, apparently on the Local Nature Reserve. The woodland includes a long-established Pear (*Pyrus communis*) tree and planted Wild Daffodil (*Narcissus pseudonarcissus*).

Phase 1 Name	Phase 1 Code
Running Water	G2

The watercourse exits the Mill Pool on the eastern edge of the site, initially through a spill way, the condition of which is deteriorating. The watercourse then becomes more natural, although a section of the eastern bank was altered by an adjacent householder in 2021. There are a number of culverts which protrude from the stream bank, however it is not known if these are functional.

The watercourse is similar in nature to the length in Compartment 1 in that the water is shallow and the banks are mostly steep and bare of vegetation. There is also little in-stream vegetation. In this section the bank tops and surrounding habitat is much drier than that in Compartment 1. This length is much more accessed by people and dogs compared to the watercourse in Compartment 1.

Phase 1 Name		Phase 1 Code
Hedgerow – intact		J21
There is a length of hedgerow along the edge where the site borders Hill Hook Road, which is also edged by a wooden post and rail fence.		
Notes	Japanese Knotweed	

Management objectives:

- 1. Aim to understand more thoroughly, the habitat in this area of the site. It seems to be that this area of the site was much wetter in the past and even recently, had areas of standing water seasonally. Ideally, aim to understand the reasons behind the area becoming drier.
- 2. Aim to improve biodiversity, increase micro-habitats/niches, physical/structural diversity and age diversity, without impacting the natural vegetation community.
- 3. The recent survey of the watercourse suggests a lack of large lying and standing deadwood, aim to increase this, if the opportunity arises.

Management approach:

Maximise naturalness and biodiversity. Minimise impact of people, especially footfall – there are large areas of bare ground in this section, while also considering and facilitating the engagement of people with wildlife e.g. through access to the stream, controlled access to viewing of the bluebells, den building etc.

Management activities:

- 1. Remove/control non-native plant species e.g.
 - a. Sycamore and other non-native Maples control saplings
 - b. Cotoneaster
 - c. NB Japanese Knotweed monitor and report ONLY requires licenced person to treat with herbicide, do not work within legal distance of stems. Location: behind house on Bradgate Drive (SK10405 00389)
- 2. Plan and carry out a coppice rotation for the hazel blocks consisting of this area and the area beyond Hill Hook Road (to Blake Street)
- 3. Maintain main path from dam to Hill Hook Road as a butterfly ride with an open route, with scalloped edges, delineated by dead hedges with a vegetation of varied structure and layers
- 4. Maintain dead hedges around areas of bluebells
- 5. Installation of bat and bird boxes from 2022 funding bid for The Urban Bat Project
- 6. Maintain paths in good condition to ensure people stick to these and do not widen them or take short cuts.
- 7. Carry out litter picks and removal or reporting of fly tipping as necessary. Monitor for dumping over garden fences or other hot spots, raise issues with site owners (currently BCC) as necessary.
- 8. Reporting of pollution incidents in watercourse to the Environment Agency and raising awareness of this with the site users and wider local community. The aim is that the source of the pollution will be identified and resolved.
- 9. Monitor watercourse for signs of damage and erosion by people and by the water flow.
- 10. Increase the amount of large dead wood on bank tops where possible and the opportunity arises (i.e. from felling on site).
- 11. Surveys:
 - a. FIN surveys April-September, as per established methodology for this site
 - b. Flowering plant calendar
 - c. Aim to set up a butterfly transect

- d. Bird surveys
- e. Aim to commission detailed invertebrate survey
- 12. Run a programme of events for the public such as bluebell/spring flower walks, stream dipping and other family events and events to coincide with citizen science projects such as Big Garden Birdwatch, Big Butterfly Count and City Nature Challenge, alongside the long running Bat and Moth events. Aim to engage the public with nature, with the site and to recruit more volunteers to the group, especially younger volunteers.

Possible projects to consider:

- The Friends group have recently been approached by The Urban Bat Project regarding the site's inclusion in their bat box monitoring and surveying scheme, which is a PhD study investigating the movements of bats in the urban fringe. The group have secured funding for appropriate bat boxes and also some bird boxes and their installation. This project should begin over the upcoming months (Spring 2022), dependent on the delivery of the boxes.
- 2. As mentioned above, a programme of events for the site would help to engage the public with nature, help educate the public regarding the value of the site and its proper use and to recruit more volunteers to the group. A concerted approach is likely to need extra funds to deliver this programme, at least initially.
- 3. Consider if the age structure of the trees needs to be diversified, particularly the Common Alder.
- 4. Consider the introduction of 'leaky dams' into the watercourse. NB this will need consent from the relevant authority (i.e. the local authority or the Environment Agency as appropriate). Leaky dams are a form of natural flood management (known as NFM) and are valuable in slowing the flow of water, which has many benefits to the site itself and beyond. For example, NFM creates areas of deeper and slower moving water, which is a habitat for a number of species, it slows the flow on site meaning more opportunities for in-stream vegetation and also reduced erosion of stream banks, it helps to maintain the wet woodland habitat. It also slows the flow of water out of the site, reducing flooding downstream of the reserve. The reserve has recently lost a number of these valuable features and the replacement of these should be investigated as a priority.



Compartment 4: The area between Hill Hook Road and Blake Street

Compartment 4: The area between Hill Hook Road and Blake Street

4a: the grasslands:

- the grassland at the Hill Hook Road entrance
- the woodland glade
- the main grassland at the Blake Street end of the site
- the watercourse bank top at the Blake Street end of the site

4b: the woodlands, glades and rides

- the main woodlands
- the planted Ash woodland block
- the triangle of land on the opposite bank of the watercourse, adjoining Hill Hook Road
- the hedgerows along the roadside and on the triangle of land
- the glades
- the rides, including the watercourse bank top

4c: the watercourse

Habitats	
Phase 1 Name	Phase 1 Code
Broadleaved Woodland – plantation	A112
There is a block of apparently planted Ash woodland at the northern end of	the site, bordering

Blake Street. The trees are pre-dominantly Ash (*Fraxinus excelsior*) and are even-aged and evenly spaced. There is also little understorey and a relatively species-poor field layer, consisting mainly of species such as Bramble, Nettle (*Urtica dioica*) and Wood Avens. There is a small amount of Japanese Knotweed within this block, near the hedgerow along Blake Street, which is being treated by the site owner.

Phase 1 Name	Phase 1 Code
Broadleaved Woodland	A11

The remainder of the woodland in this compartment appears more semi-natural, though the majority also appears to be relatively even-aged. The areas along the western edge are dominated by Pedunculate Oak (*Quercus robur*), though also include areas of Hawthorn (*Crataegus monogyna*), planted trees such as Walnut (*Juglans* sp.) and some planted areas of Hazel. There are some older trees along the watercourse, including large Willow and Cherry (*Prunus* sp.).

Towards the southern end of the site, the trees become more scattered, with an area of grassland underneath. There are also some more open areas between the two main paths, with planted understorey species such as Alder Buckthorn (*Frangula alnus*).

At the Hill Hook Road end of the site, there is a small triangle of woodland on the opposite, eastern side of the bank, which is also part of the reserve.

A female native Black Poplar (*Populus nigra*), grown through The Birmingham & Black Country Wildlife Trust's Growing Local Flora (GLF) project, has been planted on the stream bank in the grassland at the Blake Street end of the reserve. There is also an area of self-set Common Alder in this area.

Phase 1 Name	Phase 1 Code
Scrub – Bramble	A21Rf

There is a large area of Bramble scrub in the grassland at the Hill Hook end of this compartment. The patch borders the western edge of the grassland and extends to the western boundary, to the adjoining householders' fences. Whitethroat have been recorded nesting in this area and the Bramble also provides a good source of nectar and pollen for butterflies, bees and other insects.

Phase 1 Name	Phase 1 Code
Tall herb and fern – Tall ruderal	C31
There is a small area of Rosebay Willowherb (Chamerion angustifolium) bordering the area of	

Bramble at the entrance from Hill Hook Road. This is a valuable habitat, for example, providing late season pollen and nectar and as a foodplant for some moth caterpillars.

Phase 1 Name	Phase 1 Code
Neutral Grassland	B2

There are two main areas of neutral grassland on the whole site, both of which are in this compartment. The first is at the entrance to the site from Hill Hook Road and is relatively short, perhaps due to trampling. It is relatively species-poor.

The second area is at the Blake Street end of the site and has much more plant diversity, including Common Spotted Orchid (*Dactylorhiza fuchsii*), Southern Marsh Orchid (*Dactylorhiza pratermissa*) and Devil's-bit Scabious (*Succisa pratensis*). Some Fritillary (*Fritillaria meleagris*) have also been planted in this area, but the heavy use of the site during 2021 appears to have led to the loss of these plants.

There are also some glades and scallops along the woodland paths, managed as butterfly habitat, which also contain areas of neutral grassland.

Phase 1 Name	Phase 1 Code
Running Water	G2

The watercourse continues along the eastern edge of the site, after flowing underneath Hill Hook Road, through an altered section of stream. The water is generally shallow, though there are occasional deeper pools and small waterfalls/chutes. The substrate at the Hill Hook Road end is quite sandy, but this soon changes to silt. At the Blake Street end of the reserve, the watercourse turns sharply west and runs between Blake Street and the adjacent farmed field. There is a small amount of Himalayan Balsam (*Impatiens glandulifera*) where the watercourse exits the reserve. There is also a culvert, which discharges into the stream at this point. As with the other lengths of watercourse, survey work suggests a lack of large dead wood on the bank tops. There are a number of desire lines where, presumably, dogs access the watercourse, particularly at the Blake Street end.

Phase 1 Name	Phase 1 Code
Hedgerow – intact	J21

The northern end of the site is marked by a planted hedgerow bordering Blake Street. This is dominated by Hawthorn and currently still has plastic spiral tree guards attached to many of the trees.

Notes	Japanese Knotweed, Himalayan Balsam, Common Spotted Orchid,
	Southern Marsh Orchid, Devil's Bit Scabious. A Kingfisher (Alcedo atthis)
	has also been reported as being seen on this stretch of the watercourse.
Management objectives:

- 1. The woodlands are as semi-natural as they can be, with a variety of species, ages, micro-habitats and appropriate field layer
- 2. The woodland rides and glades maximise butterfly (and other insect) habitat
- 3. The watercourse is in good condition
- 4. The meadows are managed consistently at an appropriate time, with a cut and remove, with the aim of maintaining and where possible, increasing species-diversity

Management approach:

The management approach should include appropriate, frequent surveying and monitoring to assess the state of the habitats and the effect of management work. Woodland and meadow management should follow traditional methods, informed by up to date knowledge and the results of surveys. Species introductions, e.g. to the field layer in the Ash woodland, should ideally be species that are already on the site and preferably from propagules collected on site. The results of the plants in flower calendar surveys should also be taken into account, if appropriate.

Management activities:

- Manage grasslands as hay meadows with a cut and remove at a consistent time each year. Ideally this would be somewhere between mid-July and mid-August. Also ideally, if the cut takes places at this time, one area at the edge should be left, in rotation for a later cut (this could be carried out with hand tools), for a nectar source for invertebrates. Maintain ecotones between habitat types to maximise habitat for invertebrates.
- 2. Dig up bramble, nettles and dock as necessary.
- 3. Maintain bramble area in first meadow (adjacent to Hill Hook Road), for bird nesting habitat (Whitethroat have been recorded using this area) and as a barrier for the adjoining gardens, but do not allow to encroach onto meadow area.
- 4. While Yellow Rattle population remains low, once the seed has set, collect seed and store until after the hay cut and remove has taken place. Re-sow into most needed areas in grassland e.g. where grass is dominant or Yellow Rattle (*Rhinanthus minor*) populations are at their lowest.
- 5. Remove/control non-native plant species
 - a. NB Japanese Knotweed monitor and report ONLY requires licenced person to treat with herbicide, do not work within legal limit. Location: next to the hedgerow at Blake Street, within the planted Ash woodland block (SK10356 00771).
 - b. Himalayan Balsam ensure this is checked and the plants pulled before they set seed (June/July). Location: small patch at the Blake Street end of the watercourse (SK10392 00757). The species is also present in the continuation of the watercourse, between the field edge and Blake Street.
- 6. Plan and carry out a coppice rotation for the Hazel blocks consisting of this area and the area beyond Hill Hook Road (to Blake Street)
- 7. Thin block of planted Ash woodland to diversify the species and age structure within the block. Survey field layer and then consider enhancing the field layer, ideally with propagules from species already present on site.
- 8. Manage paths as butterfly rides, keeping them open and as floriferous as possible, including plant species that are valuable to non-specialist pollinators such as Hogweed (*Heracleum sphondylium*) and Yarrow (*Achillea millefolium*). Continue to manage the pattern of alternate scalloped edges. Maintain as long a flowering period as possible. Include

foodplants for specific relevant species, where possible and appropriate. Ensure that existing vegetation community is not lost through species introductions, as appropriate.

- 9. Monitor wooded area along watercourse bank to retain varied age Crack Willow, Common Alder and other existing species. Ensure varied age and physical structure along the whole length of the watercourse in this section. The self-set Common Alder at the Blake Street end of the site are included in this action. These should be left to establish as they are important habitat for a variety of species and also add structure to the watercourse bank habitat at this end of the site. They should also not be allowed to spread further i.e. open areas of bank and watercourse should also be maintained to allow sunlight to the water in places.
- 10. Take cuttings from female native Black Poplar (SK10402 00738) and distribute to appropriate sites via The Birmingham & Black Country Wildlife Trust
- 11. Monitor newly installed bird boxes for use and record. See list in appendix for locations. Do not disturb nesting birds.
- 12. Maintain dead hedge along edge of triangle of land, adjoining Hill Hook Road on the opposite side of the stream to discourage public access to this area (location: SK10440 00555).
- 13. Maintain paths in good condition to ensure people stick to these and do not widen them or take short cuts.
- 14. Carry out litter picks and removal or reporting of fly tipping as necessary. Monitor for dumping over garden fences or other hot spots, raise issues with site owners (currently BCC) as necessary.
- 15. Reporting of pollution incidents in watercourse and raising awareness of this with the site users and wider local community. The aim is that the source of the pollution will be identified and resolved.
- 16. Increase the amount of large dead wood on bank tops where possible and the opportunity arises (i.e. from felling on site).
- 17. Monitor for signs of damage and erosion by people and by the water flow.
- 18. Surveys:
 - a. FIN surveys April-September, as per established methodology for this site
 - b. Flowering plant calendar
 - Meadow plant survey walkover recording Dominant, Abundant, Frequent, Occasional or Rare (DAFOR) as per standard methodology plus five 2m by 2m quadrats recording percentage cover of all species
 - d. Big Butterfly Count
 - e. Aim to set up a butterfly transect
 - f. Bird surveys
 - g. Bird box survey to assess if they are being used
 - h. Aim to commission detailed invertebrate survey

Possible projects to consider:

- 1. Consider creation of dragonfly scrape(s) at Blake Street end of the site, potentially in the existing dip in the meadow. NB due to the nearby watercourse, this may need to be done under permit from the relevant authority.
- 2. Consider the introduction of 'leaky dams' into the watercourse. NB this will need consent from the relevant authority (i.e. the local authority or the Environment Agency as appropriate). Leaky dams are a form of natural flood management (known as NFM) and are

valuable in slowing the flow of water, which has many benefits to the site itself and beyond. For example, NFM creates areas of deeper and slower moving water, which is a habitat for a number of species, it slows the flow on site meaning more opportunities for in-stream vegetation and also reduced erosion of stream banks, it helps to maintain the wet woodland habitat. It also slows the flow of water out of the site, reducing flooding downstream of the reserve. The reserve has recently lost a number of these valuable features and the replacement of these should be investigated as a priority.



Management Actions – Work Plan

The site owners, currently Birmingham City Council have responsibility for the safety and maintenance of the site. The following work plan is for habitat management and day to day activities such as litter picking and keeping paths clear of vegetation. The Friends group, in consultation with the Council also occasionally fundraise for infrastructure projects, to help with the condition of the site. Any problems with the infrastructure to be reported to BCC. This is also the case with any other problems that arise on site, such as with adjacent householders or trees on site.

The site owners also have the responsibility regarding treating of Japanese Knotweed. This can only be done by qualified people.

Mechanisms for work being carried out

The table below is split into two sections: the left hand section is written for the volunteer work parties or other supervised groups and the right hand side is for suitably trained individual volunteers, as sanctioned by the Committee, work by contractors and projects for the Committee.

Action no.	Compartment/ Sub- compartment	Volunteer work parties	Timing	Action no.	Individual volunteers/work outside work parties*	Timing
1a.	Whole site	Litter pick	Regular, and as necessary	1b.	Litter pick	When available, after agreement from FoHHLNR Committee
2a.	Whole site	Cutting back of vegetation that is growing over paths. Ensure breeding birds and their habitats are not disturbed	May- September, i.e. during growing season	2b.	Vegetation clearance along paths (only) – with secateurs (but nothing larger)	When available, after agreement from FoHHLNR Committee during growing season.
3a.	Whole site	Surveys and recording: Vegetation/habitats Plants in flower – pollinators calendar Bird e.g. Spring and Winter and Big Garden Birdwatch Butterfly – Big Butterfly Count, plus transects if possible Bird box use Freshwater Invertebrates (FIN) Visitor surveys	Each year at the appropriate time(s) of year Ongoing casual recording as part of volunteer days and events, all year Prior to any new or large scale projects	3b.	Surveys and recording: Casual records, City Nature Challenge (CNC), formal schemes for visitors, butterflies, bird boxes, plants in flower, FIN	When available, after agreement from FoHHLNR Committee. CNC – April Visitors – April- October Bird boxes – April-August Butterflies – FIN – April- September Plants in flower – all year Casual – all year

Action no.	Compartment/ Sub- compartment	Volunteer work parties	Timing	Action no.	Individual volunteers/work outside work parties*	Timing
		Fungi, mammal and other invertebrates where possible Casual records		Зс.	Committee: consider commissioning a detailed invertebrate survey of the site. This is likely to need funding and therefore a grant application	
4.	Whole site	Removal of hybrid and Spanish Bluebell – a decision needs to be taken to decide if this is desirable and feasible. An alternative approach would be to concentrate on the areas near the native Bluebells	May-June			
5a.	Whole site	Monitor condition of paths Ensure paths are well-defined and do not become overgrown to ensure that visitors stay on the paths, do not take sort cuts or widen the paths	All year	5b.	Committee: Consider a programme of events for the site would help to engage the public with nature, help educate the public regarding the value of the site and its proper use and to recruit more volunteers to the group	As time and funding allow
6a.	Whole site: watercourses and Mill Pool	Monitor visually and report pollution incidents to Environment Agency pollution line	All year	6b. 6c.	Committee: Publicise Environment Agency pollution line to the general public/ site users Proactively contact and work with the relevant authorities	All year As soon as possible

Action	Compartment/	Volunteer work	Timing	Action	Individual	Timing
no.	Sub- compartment	parties		no.	outside work	
	<u> </u>				parties*	
				6d.	Individuals: as 6a.	All year
7a.	Semi-natural	Remove/control	Outside bird	7c.	Committee:	All year
	wet	non-native species:	nesting season		Awareness raising	
	(Cmpt 1)	Variegated Yellow Archangel	October-		Sandhurst	
	(Chipt I)	Alchanger	February		residents (e.g.	
		Cotopostor			grass	
			Some work on		cuttings/garden	
		Crocus Garden	some species		waste dumping	
		Daffodils	may be possible		over fence and	
		• Sycamore, Norway	during the		cutting down	
		Maple, Horse	whole year, e.g.		houses)	
		Chestnut –	Consult WTBBC		nousesy	
		especially	before starting			
		seedlings and	work.			
		Saplings				
		• Garden species				
		fence near				
		entrance from				
		Bradgate Drive				
7h		Monitoring and				
70.		lananese Knotweed				
		There is currently a				
		, patch near the				
		entrance from				
		Bradgate Drive, near				
		house number 53.				
		ΙΜΡΟΒΤΑΝΤΟ				
		walking off the				
		paths in the wet				
		woodland must be				
		kept to the bare				
		minimum to avoid				
		sensitive habitat				
8a.	Semi-natural	Monitor condition	All year, with	8c.	Committee:	
	wet	of whole habitat to	focus on winter		Consider the	
	woodland	ensure that it is not	and summer (to		introduction of	
	(Cmpt 1)	drying out	monitor high		'leaky dams' into	
			and low water		the watercourse.	
8b.		Monitor condition	amount of		INB THIS WIII NEED	
		swamp-like areas to	shade)		relevant authority	
					(i.e. the local	

Action	Compartment/	Volunteer work	Timing	Action	Individual	Timing
no.	Sub-	parties		no.	volunteers/work	
	compartment				outside work	
		ensure these do not			authority or the	
		get overly invaded			Environment	
		by bramble, tree			Agency as	
		saplings etc.			appropriate)	
06:		If monitoring			Committee:	
801.		suggests that work		0.1	Consider an	
		is needed,		80.	interpretation	
		Committee to put			panel for the wet	
		plan in place for			woodland habitat	
		appropriate				
		management				
9a.	Semi-natural	Monitor condition	In Spring, when	9c.	Committee:	As the
	wet	of area where	Moschatel is		consider projects	opportunity
	woodland	Moschatel grows for	above ground.		to ennance the	arises
	(Cmpt 1)	Bramble etc			for specialist	
		Diamble etc.			species such as	
		If necessary			Willow Tit (linking	
9ai.		carefully remove	In Summer,		in with other	
		relevant species.	when ground is		projects nearby	
		preferably by hand	avoid		i.e. that based	
		(i.e. without using	compacting the		around Middleton	
		digging tools)	soil and		Lakes and Tame	
			negatively		Valley Wetlands),	
			impacting the		especially those	
			Moschatel.		species which	
					have previously	
		Aim to establish a	Once a suitable		been recorded on	
9b.		second area of	site has been		the site, nowever,	
		Moschatel on site	identified and		also consider the	
		through propagules	once propagules		change and	
		collected from the	have been		species which	
		site	grown on off-		may move north	
			site		,	
					Committee: View	
					the site and its	
				9d.	habitats on a	As the
					landscape scale	opportunity
					and look for	arises
					opportunities for	
					linking the site to	
					the wider	
					ianoscape	
					(stopping stopps)	
					stepping stones	
					and managing (or	

Action no.	Compartment/ Sub- compartment	Volunteer work parties	Timing	Action no.	Individual volunteers/work outside work	Timing
					encouraging the management) of all local sites with similar aims in mind, where appropriate.	
10.	Semi-natural wet woodland (Cmpt 1)	Remove timber (sleepers etc.) store	As soon as possible.			
11a.	Semi-natural wet woodland (Cmpt 1)	Monitor area adjoining Cricket Club where snowberry has been removed and trees/shrubs have been planted: remove any missed or re-growing snowberry and hand weed trees and replace trees that	Monitor, remove and hand weed in Spring and Summer. Re-plant failed trees in Winter.	11d.	Committee: aim to stay in contact with the Cricket Club so that problems can be more easily raised, if necessary, e.g. by mutual advertising of events etc.	
11b.		Manage Blackthorn for the habitat requirements of the Brown Hairstreak butterfly	As appropriate			
11c.		Monitor for development of desire lines in area and through to Cricket Club: block if necessary	All year, but especially around Bonfire Night event.			
		Monitor for dumping of green waste etc.by Cricket Club. Ensure watercourses and marshy areas are not polluted by run- off from Cricket Club	All year			
12.	Semi-natural wet	Monitor coverage of species such as Holly	All year			

Action	Compartment/	Volunteer work	Timing	Action	Individual	Timing
no.	Sub-	parties		no.	volunteers/work	
	compartment				parties*	
	woodland	and Bramble – these				
	(Cmpt 1)	are very valuable				
		species for bird				
		nesting and				
		providing food but				
		dominant Coverage				
		is currently less than				
		desirable in some				
		areas.				
13.	Semi-natural	Consider coppicing	November-			
	wet	of hazel in block at	February (not in			
	woodland	rear of gardens on	Year 1 of the			
	(Cmpt 1)	Sandhurst Road	plan)			
		Not to take place in				
		vear one of plan If				
		decision is taken to				
		coppice this area,				
		then this block to be				
		added into the				
		coppice rotation for				
		the whole site				
14a.	MIII POOI	Maintain views from	October-			
	overflow	fringe of trees and	vegetation			
	(Cmpt 2a)	marginal wetland	management			
		vegetation to create				
		marsh-like habitat				
		fringe, especially				
		along the eastern				
		edge.				
		Manitanta anguna				
14b.		the area where the				
		Mute Swans breed				
		on the western				
		edge, is undisturbed				
		by management				
		work or public				
		access.				
		Leave Bramble				
		natches untouched				
14c.		but monitor for				
		spread.				
15a.	Mill Pool	Educate the public	All year, as and	15b.	Committee:	Whole year
	including the	regarding feeding	when possible/		Educate the	(posters), also

Action no.	Compartment/ Sub- compartment	Volunteer work parties	Timing	Action no.	Individual volunteers/work outside work	Timing
	comparement				parties*	
	overflow (Cmpt 2a)	the ducks, geese and swans etc.	opportunities arise		public regarding feeding the ducks, geese and swans etc.	potentially events, investigate possibility of involvement from other agencies.
16a. 16b.	The Mill Pool including the overflow (Cmpt 2a)	Note and report any issues to BCC e.g. signs of pollution, animal welfare issues e.g. bird flu, issues with the condition of the dam or outflow Monitor areas of wetland flora introductions and manage to maintain	All year All year, unless habitat conditions mean that work	16c.	Committee: Consider project(s) to improve the habitat of the pool: •De-silting •Additional improvements to edge vegetation •Thinning of trees on island, especially those	As time and funding allow
		conditions e.g. remove bramble or other invading species or reduce spread of wetland flora to ensure some areas of bare ground at pool edge.	needs to be carried out outside the bird nesting season i.e. carried out between October- February		especially those on the island edge	
17.	The dam (Cmpt 2b)	Monitor banks for re-growth of snowberry (and signs of other non- native species) and remove	All year, unless habitat conditions mean that work needs to be carried out outside the bird nesting season i.e. carried out between October- February			
18a.	The dam (Cmpt 2b)	Aim to manage dam banks as a hay meadow, with a cut and remove Leave areas of 'bare ground' species such as White Deadnettle	Mid-July	18b.	Committee: Consider project to increase the floral diversity of the dam (see description above)	As time allows

Action no.	Compartment/ Sub-	Volunteer work parties	Timing	Action no.	Individual volunteers/work	Timing
	compartment				outside work	
		uncut to encourage flowers being present over as long a time as possible				
19a.	The garden, adjoining amenity grassland (Cmpt 2c)	Maintain as an attractive wildlife garden. Weed as necessary but do not remove all wildflowers (e.g. speedwells).	All year	19b.	Individual volunteers: weed as necessary, but do not remove all wildflowers (e.g. speedwells).	All year
		Prune shrubs to maintain them to an appropriate size, especially the roses along the path edge. Prune after rose hips have disappeared.	December or later.	19c.	Committee: Plant up with wildlife friendly plants, depending on budget available, to standards given in 'Management approach' section	When possible
				19d.	Committee: Consider project to develop and enhance garden and showcase wildlife gardening to the public (e.g. interpretation panels and events)	When possible
20a.	The central	Remove/control	October-			
	woodland (between the dam and Hill Hook Road) (Cmpt 3a)	 Non-native plant species e.g.: Sycamore and other non-native Maples (seedlings and saplings) Cotoneaster 	February			
20b.		Monitoring and reporting of Japanese Knotweed. There is currently a patch near the entrance from Bradgate Drive/ behind house number 9.	April-September			

Action	Compartment/	Volunteer work	Timing	Action	Individual	Timing
110.	compartment	parties		110.	outside work	
21a.	The central	Consider	November-	21b.	Committee:	
	area of	establishing coppice	February		Consider if the	
	woodland	rotation, linked to			age structure of	
	(between the	cycle of other areas			the trees needs to	
	dam and Hill	of hazel coppice on			be diversified,	
	Hook Road)	the reserve, to			particularly the	
	(Cmpt 3a)	create a mosaic of			Common Alder.	
		the site				
222	The central	Maintain main nath	Dependent on			
220.	area of	from dam to Hill	type of work:			
	woodland	Hook Road as a	vegetation			
	(between the	butterfly ride with	management to			
	dam and Hill	an open route, with	take place			
	Hook Road)	scalloped edges,	November-			
	(Cmpt 3a)	delineated by dead	February			
		hedges with a				
		vegetation of varied				
		structure and layers				
		Maintain dead				
22b.		hedges around				
		areas of Bluebells				
23a.	The central	Possible installation		23b.	Contractor/tree	As appropriate
	area of	of bird boxes from			climbers:	after delivery of
	woodland	2022 funding bid to			Installation of bat	boxes
	(between the	Sutton Town Council			boxes for the	
	dam and Hill				BrumBats bat	
	(Cmpt 2a)				scheme	
	(Chipt Sa)				Installation of hird	
					boxes	
24a.	The central	Monitor for signs of	All year	24b.	Committee:	As time and
	length of	damage and erosion			Consider stream	funding allow
	watercourse	by people and by			dipping public	
	(between the	the water flow.			events to help	
	dam and Hill				educate public in	
	HOOK KOad) (Cmnt 3h)				use of stream	
25a.	The central	Consider the	November-	25b.	Committee:	As time and
	length of	introduction of large	February		Consider the	funding allow
	watercourse	dead wood on the			introduction of	-
	(between the	bank tops from			'leaky dams' into	
	dam and Hill	felling on other			the watercourse.	
	Hook Road)	areas of the reserve.			NB this will need	
	(Cmpt 3b)				consent from the	
					relevant authority	
					(I.e. the local	

Action Compartment/ Volunteer work Timing Action Individual	Timing
no. Sub- parties no. volunteers/w	ork
compartment outside wor	k
parties*	
authority or th	ne
Environment	
Agency as	
appropriate)	
26a.The areaDig up bramble,February-April26e.Contractor:	Mid July – late
between Hill nettles and dock as and after the Manage as have	y August
Hook Roadnecessary.hay cut until themeadows with	าล
and Blake ground cut and remov	/e at
26b. Street: the Ensure bramble at becomes too a consistent time	me
grasslands – the edge of the first wet and work each year. Idea	ally
the grasslandgrassland (at the Hillwould damagethis would be	
at Hill Hook Hook Road the habitat somewhere	
Road entrance) is kept between mid	July
entrance, the both for bird nesting and mid-Augu	st.
woodland habitat Also ideally, if	the
glade and the (Whitethroat have cut takes place	es at
main been known to use this time, one	
grassiand this area) and as a area at the ed	ge
plus barrier for the should be left,	, in
watercourse adjoining gardens,	
Blake Street the brenchie	od
out with hand	su
(Cmpt (a) further enter the	actar
(Chipt 4a) Turther onto the course for	
grassianu. Maintain ecotopes between	
habitat types to Maintain	
maximise habitat for ecotones	
invertebrates between habit	tat
types to maxim	nise
Survey each habitat for	
grassland using for invertebrates.	NB
26c Brassland using, for Mid-late June The grassland	cut
walkover recording and removes a	are
all species with	ed
DAFOR plus 5 2m by	e
2m guadrats with current site	
percentage cover of owner.	
each species.	
Committee:	
While Yellow Rattle Consider the	
population remains creation of	
low, once the seed lune/luly 26f. dragonfly scra	pes. As time and
26d. has set, collect seed depending on NB due to the	funding allow
and store until after the time of the nearby	
the hay cut and seed set and watercourse, t	this
remove has taken after surveying may need to b	ve
place. Re-sow into has taken place done under	

Final - 09/10/2023

Action no.	Compartment/ Sub- compartment	Volunteer work parties	Timing	Action no.	Individual volunteers/work outside work parties*	Timing
		most needed areas in grassland e.g. where grass is dominant or Yellow Rattle populations are at their lowest. Undertake Butterfly Conservation's Big Butterfly Count	July-August (see website for dates	26g.	permit from the relevant authority. Individuals*: Undertake Butterfly Conservation's Big Butterfly Count * Multiple surveys are useful. Records should also be sent to WTBBC/ EcoRecord	July-August (see website for dates)
27.	The area between Hill Hook Road and Blake Street: woodlands, glades and rides (Cmpt 4b)	Monitor areas of Japanese Knotweed within Ash woodland block, alongside Blake Street and report to site owner	April-September			
28.	The area between Hill Hook Road and Blake Street: woodlands, glades and rides (Cmpt 4b)	Plan and carry out a coppice rotation for the hazel blocks consisting of this area and the area beyond Hill Hook Road (to Blake Street)	November- February			
29a.	The area between Hill Hook Road and Blake Street: woodlands, glades and	Thin block of planted Ash woodland to diversify the species and age structure within the block.	November- February			
29b.	rides (Cmpt 4b)	Survey field layer, then consider enhancing the field layer, ideally with propagules from	Survey: for a year			

51

Action	Compartment/	Volunteer work	Timing	Action	Individual	Timing
no.	Sub-	parties	U U	no.	volunteers/work	
	compartment				outside work	
				_	parties*	
		species already	Propagating and			
		present on site.	planting: April-			
			October			
30.	The area	Manage paths as	All year			
	between Hill	butterfly rides,				
	Hook Road	keeping them open				
	and Blake	and as floriferous as				
	Street:	possible, including				
	woodlands,	plant species that				
	glades and	are valuable to non-				
	rides (Cmpt	specialist pollinators				
	4b)	such as Hogweed				
		and Yarrow.				
		Continue to manage				
		the pattern of				
		alternate scalloped				
		edges. Maintain as				
		long a flowering				
		period as possible.				
		for creatific relevants				
		for specific relevant				
		species, where				
		that ovicting				
		vogotation				
		vegetation				
		Lost through species				
		introductions as				
		appropriate				
	The area	Appropriate.	November			
	hetween Hill	hedge along edge of	February			
	Hook Road	triangle of land	rebruary			
	and Blake	adioining Hill Hook				
	Street:	Road on the				
	woodlands.	opposite side of the				
	glades and	stream to				
	rides (Cmpt	discourage public				
	4b)	access to this area.				
31a.	, The area	Monitor wooded	All year			
	between Hill	area along	,			
	Hook Road	watercourse bank to				
	and Blake	retain varied age				
	Street:	Crack Willow,				
	woodlands,	Common Alder and				
	glades and	other existing				
	rides (Cmpt	species. Ensure				
	4b)	varied age and				
		physical structure				

Action	Compartment/	Volunteer work	Timing	Action	Individual	Timing
no.	Sub- compartment	parties		no.	volunteers/work	
	oomparenent				parties*	
		along the whole				
		length of the				
		watercourse in this				
		section. The self-set				
		Common Alder at				
		the Blake Street end				
		of the site are				
		included in this				
		action. These should				
		be left to establish				
		ds they dre				
		for a variety of				
		species and also add				
		structure to the				
		watercourse bank				
		habitat at this end				
		of the site. They				
		should also not be				
		allowed to spread				
		further i.e. open				
		areas of bank and				
		watercourse should				
		be maintained to				
		allow sunlight to the				
		water in places.				
		Take cuttings from				
		female native Black				
		Poplar and				
		distribute to				
31b.		appropriate sites via	October-			
		the Wildlife Trust	February			
32a.	The area	Monitor newly	April-August	32b.	Individuals:	April-August
	between Hill	installed bird boxes			Monitor newly	
	Hook Road	for use and record.			installed bird	
	and Blake	See list in appendix			boxes for use and	
	Street:	for locations. Do not			record. See list in	
	woodlands,	disturb nesting			appendix for	
	glades and	piras.			locations. Do not	
	ndes (Cmpt				hirds	
33	40) The area	Maintain dead	November-		birus.	
55.	hetween Hill	hedge along edge of	February			
	Hook Road	triangle of land.	· cordury			
	and Blake	adjoining Hill Hook				
	Street:	Road on the				
	woodlands,	opposite side of the				

Action	Compartment/	Volunteer work	Timing	Action	Individual	Timing
no.	Sub-	parties		no.	volunteers/work	
	compartment				outside work	
	glades and	stream to			partico	
	rides (Cmpt	discourage public				
	4b)	access to this area.				
34.	The area	Monitor for	June-September			
	between Hill	Himalayan Balsam				
	Hook Road	and pull as soon as				
	and Blake	possible, and				
	Street: the	definitely before				
	watercourse	seed has set. Break				
	(Cmpt 4c)	stem between root				
		and first node to				
		ensure the plant				
		cannot re-root.				
		Previously found at				
		Blake Street end of				
		watercourse and				
		rosonuo botwoon				
		Plake Street and the				
		formland/field				
35a	The area	Consider the	November-	35h	Committee:	
554.	between Hill	introduction of large	February	555.	Consider the	
	Hook Road	dead wood on the			introduction of	
	and Blake	bank tops from			'leaky dams' into	
	Street: the	felling on other			the watercourse.	
	watercourse	areas of the reserve			NB this will need	
	(Cmpt 4c)				consent from the	
					relevant authority	
					(i.e. the local	
					authority or the	
					Environment	
					Agency as	
					appropriate)	
36.	The area	Monitor for signs of	All year			
	between Hill	damage and erosion				
	Hook Road	by people and by				
	and Blake	the water flow				
	Street: the					
	watercourse					
	(Cmpt 4c)					

Management Actions – Other actions

This section includes actions in a variety of areas from public engagement to monitoring activities and the production of the next management plan. As discussed in previous sections, the aim of engagement and education activities is to involve and excite people of all ages and backgrounds, including people that are under-represented as site users or volunteers to help them become knowledgeable and passionate about wildlife and protecting local sites, special sites and our planet. The assumption is that this will be done in the context of this plan and its aims and the needs of the site and local people– e.g. events will take into account the needs of local residents in terms of disturbance and disruption and the needs of the site in terms of erosion, compaction and disturbance to wildlife and that educational engagement will be focused on local schools or schools that do not need access to toilets or indoor facilities on the site.

Action No.	Action	Details/comments	Timing
37.	Events	A range of events should be organised and run for the public and for specific groups.	As funding allows
38. Schools and other groups		Links should be made with local schools and other groups and sessions for school and other groups run on (and possibly off) site. These groups should be encouraged and enabled to use the site on their own, e.g. through increase in confidence (through the use of the site with WTBBC staff), training and the supply of resources).	As funding allows
		The Wildlife Trust could run courses accredited through Open College Network West Midlands at the reserve. One aim would be to recruit young adults to volunteer with the group.	
39.	Educational materials	A range of learning programmes and materials for primary and secondary schools should be produced, linking with the national curriculum and encouraging local schools to use the site for field trips and the delivery of lessons.	As funding allows
40.	Further funding	Further funding will be necessary to complete some of the actions within this management plan and also to extend staff time for the leading of volunteer groups, events and school groups etc.	As opportunities arise
41.	Monitoring of results of management plan	Monitoring of the results of management work allows the assessment of how successful or otherwise these works have been to allow further work to be carried out and/or changes to management approaches and to allow the production of the next management plan.	Ongoing 2022- 2027
42.	Production of new management plan	A new management plan will ideally be needed to ensure planning, prioritising and continuation of the work within the reserve to maximise its value for people and for wildlife. It is also often necessary for funding applications. The management plan should be created in consultation with the local community and other stakeholders.	The start of 2027, for implementation in 2028

Species Lists

Records from EcoRecord database as of March 2022

Taxon group	Scientific Name	Common Name
acarine (Acari)	Eriophyidae	acarine (Acari)
amphibian	Bufo bufo	Common Toad
amphibian	Rana temporaria	Common Frog
annelid	Hirudinea	Leech
annelid	Theromyzon tessulatum	duck leech
bird	Acanthis flammea	Common (Mealy) Redpoll
bird	Accipiter nisus	Sparrowhawk
bird	Aegithalos caudatus	Long-tailed Tit
bird	Anas	Duck
bird	Anas platyrhynchos	Mallard
bird	Anser anser	Greylag Goose
bird	Apus apus	Swift
bird	Ardea cinerea	Grey Heron
bird	Aythya fuligula	Tufted Duck
bird	Branta canadensis	Canada Goose
bird	Buteo buteo	Buzzard
bird	Carduelis carduelis	Goldfinch
bird	Certhia familiaris	Treecreeper
bird	Chloris chloris	Greenfinch
bird	Chroicocephalus ridibundus	Black-headed Gull
bird	Coloeus monedula	Jackdaw
bird	Columba livia	Feral Pigeon
bird	Columba oenas	Stock Dove
bird	Columba palumbus	Woodpigeon
bird	Corvus corone	Carrion Crow
bird	Corvus frugilegus	Rook
bird	Cuculus canorus	Cuckoo
bird	Curruca communis	Whitethroat
bird	Cyanistes caeruleus	Eurasian Blue Tit
bird	Cygnus olor	Mute Swan
bird	Delichon urbicum	Common House Martin
bird	Dendrocopos major	Great Spotted Woodpecker
bird	Emberiza schoeniclus	Common Reed Bunting
bird	Erithacus rubecula	Robin
bird	Falco peregrinus	Peregrine
bird	Fringilla coelebs	Common Chaffinch
bird	Fringilla montifringilla	Brambling
bird	Fulica atra	Eurasian Coot
bird	Gallinago gallinago	Snipe
bird	Gallinula chloropus	Moorhen
bird	Garrulus glandarius	Jay
bird	Haematopus ostralegus	Oystercatcher
bird	Hirundo rustica	Swallow
bird	Larus fuscus	Lesser Black-backed Gull

bird	Linaria cannabina	Linnet
bird	Mergus merganser	Common Merganser
bird	Motacilla alba	Pied Wagtail
bird	Motacilla cinerea	Grey Wagtail
bird	Parus major	Great Tit
bird	Passer domesticus	House Sparrow
bird	Phalacrocorax carbo	Cormorant
bird	Phasianus colchicus	Pheasant
bird	Phylloscopus collybita	Chiffchaff
bird	Phylloscopus trochilus	Willow Warbler
bird	Pica pica	Eurasian Magpie
bird	Picus viridis	European Green Woodpecker
bird	Podiceps cristatus	Great Crested Grebe
bird	Poecile montanus	Willow Tit
bird	Prunella modularis	Dunnock
bird	Pyrrhula pyrrhula	Eurasian Bullfinch
bird	Regulus regulus	Goldcrest
bird	Riparia riparia	Sand Martin
bird	Sitta europaea	Furasian Nuthatch
bird		Sickin
bird	Sterna hirundo	Common Tern
bird	Strantonalia dagaacta	Collared Dave
bird	Streptopend decdocto	
bird	Sturpus vulgarie	Tawiiy Owi
bird	Sturius vuigaris	
	Sylvia borin	Garden warbier
	Tachybaptus rujicollis	
bird	Troglodytes troglodytes	Eurasian Wren
bird	Turdus Iliacus	Redwing
bird	Turdus merula	Blackbird
bird	Turdus philomelos	Song Thrush
bird	Turdus viscivorus	Mistle Thrush
bony fish (Actinopterygii)	Abramis brama	Common Bream
bony fish (Actinopterygii)	Cyprinus carpio	Common Carp
bony fish (Actinopterygii)	Esox lucius	Pike
bony fish (Actinopterygii)	Perca fluviatilis	Perch
bony fish (Actinopterygii)	Rutilus rutilus	Roach
bony fish (Actinopterygii)	Tinca tinca	Tench
conifer	Taxus baccata	Yew
crustacean	Gammarus pulex/fossarum agg.	crustacean
crustacean	Asellus (Asellus) aquaticus	Water hog lice/slaters
fern	Athyrium filix-femina	Lady-fern
fern	Dryopteris dilatata	Broad Buckler-fern
fern	Dryopteris filix-mas agg.	Male Fern
fern	Polystichum setiferum	Soft Shield-fern
fern	Pteridium aquilinum	Bracken
flowering plant	Acer campestre	Field Maple
flowering plant	Acer pseudoplatanus	Sycamore

flowering plant	Achillea millefolium	Yarrow
flowering plant	Achillea ptarmica	Sneezewort
flowering plant	Aegopodium podagraria	Ground-elder
flowering plant	Aesculus hippocastanum	Horse-chestnut
flowering plant	Agrostis capillaris	Common Bent
flowering plant	Agrostis stolonifera	Creeping Bent
flowering plant	Aira caryophyllea	Silver Hair-grass
flowering plant	Ajuga reptans	Bugle
flowering plant	Alliaria petiolata	Garlic Mustard
flowering plant	Allium subhirsutum	Hairy Garlic
flowering plant	Allium ursinum	Ramsons
flowering plant	Alnus glutinosa	Alder
flowering plant	Alopecurus geniculatus	Marsh Foxtail
flowering plant	Alopecurus pratensis	Meadow Foxtail
flowering plant	Anemone nemorosa	Wood Anemone
flowering plant	Angelica sylvestris	Wild Angelica
flowering plant	Anthriscus sylvestris	Cow Parsley
flowering plant	Apium nodiflorum	Fool's-water-cress
flowering plant	Arabidopsis thaliana	Thale Cress
flowering plant	Armoracia rusticana	Horse-radish
flowering plant	Arrhenatherum elatius	False Oat-grass
flowering plant	Artemisia vulgaris	Mugwort
flowering plant	Arum italicum subsp. italicum	Italian Lords-and-Ladies
flowering plant	Arum maculatum	Lords-and-Ladies
flowering plant	Aster	Michaelmas-Daisy
flowering plant	Aster novi-belgii	Confused Michaelmas-daisy
flowering plant	Aucuba japonica	Spotted-laurel
flowering plant	Bellis perennis	Daisy
flowering plant	Berula erecta	Lesser Water-parsnip
flowering plant	Betula	Birch
flowering plant	Betula pendula	Silver Birch
flowering plant	Bidens tripartita	Trifid Bur-marigold
	Bromus hordeaceus subsp.	
flowering plant	hordeaceus	Common Soft-brome
flowering plant	Bromus sterilis	Barren Brome
flowering plant	Bryonia dioica	White Bryony
flowering plant	Callitriche	Water-Starwort
flowering plant	Callitriche stagnalis	Common Water-starwort
flowering plant	Caltha	flowering plant
flowering plant	Caltha palustris	Marsh-marigold
flowering plant	Calystegia sepium	Hedge Bindweed
flowering plant	Capsella bursa-pastoris	Shepherd's-purse
flowering plant	Cardamine amara	Large Bitter-cress
flowering plant	Cardamine flexuosa	Wavy Bitter-cress
flowering plant	Cardamine hirsuta	Hairy Bitter-cress
flowering plant	Cardamine pratensis	Cuckooflower
flowering plant	Carex	Sedge
flowering plant	Carex acutiformis	Lesser Pond-sedge

flowering plant	Carex otrubae	False Fox-sedge
flowering plant	Carex paniculata	Greater Tussock-sedge
flowering plant	Carex pendula	Pendulous Sedge
flowering plant	Carex pseudocyperus	Cyperus Sedge
flowering plant	Carex remota	Remote Sedge
flowering plant	Carex riparia	Greater Pond-sedge
flowering plant	Carex rostrata	Bottle Sedge
	Centaurea nigra sens. lat.	
flowering plant	(=nigra/debauxii)	Common Knapweed
flowering plant	Cerastium fontanum	Common Mouse-ear
flowering plant	Chaerophyllum temulum	Rough Chervil
flowering plant	Chamerion angustifolium	Rosebay Willowherb
flowering plant	Chrysosplenium oppositifolium	Opposite-leaved Golden-saxifrage
flowering plant	Circaea lutetiana	Enchanter's-nightshade
flowering plant	Cirsium arvense	Creeping Thistle
flowering plant	Cirsium palustre	Marsh Thistle
flowering plant	Cirsium vulgare	Spear Thistle
flowering plant	Claytonia sibirica	Pink Purslane
flowering plant	Conopodium majus	Pignut
flowering plant	Convolvulus arvensis	Field Bindweed
flowering plant	Cornus sanguinea	Dogwood
flowering plant	Corylus avellana	Hazel
flowering plant	Cotoneaster	flowering plant
flowering plant	Cotoneaster rehderi	Bullate Cotoneaster
flowering plant	Cotoneaster simonsii	Himalayan Cotoneaster
flowering plant	Crataegus monogyna	Hawthorn
flowering plant	Crepis biennis	Rough Hawk's-beard
	Crocosmia pottsii x aurea = C. x	
flowering plant	crocosmiiflora	Montbretia
flowering plant	Cynosurus cristatus	Crested Dog's-tail
flowering plant	Dactylis glomerata	Cock's-foot
flowering plant	Dactylorhiza fuchsii	Common Spotted-orchid
	Dactylorhiza fuchsii x praetermissa	
flowering plant	= D. x grandis	Marsh-Orchid
flowering plant	Daucus carota subsp. carota	Wild Carrot
flowering plant	Deschampsia cespitosa	Tufted Hair-grass
flowering plant	Deschampsia flexuosa	Wavy Hair-grass
flowering plant	Digitalis purpurea	Foxglove
flowering plant	Dioscorea communis	Black Bryony
flowering plant	Elodea canadensis	Canadian Waterweed
flowering plant	Elytrigia repens	Common Couch
flowering plant	Epilobium hirsutum	Great Willowherb
flowering plant	Epilobium montanum	Broad-leaved Willowherb
flowering plant	Epilobium palustre	Marsh Willowherb
flowering plant	Epilobium parviflorum	Hoary Willowherb
flowering plant	Euonymus europaeus	Spindle
flowering plant	Fagus sylvatica	Beech
flowering plant	Fallopia japonica	Japanese Knotweed

flowering plant	Festuca rubra agg.	Red Fescue
flowering plant	Ficaria verna	Lesser Celandine
flowering plant	Ficaria verna subsp. verna	Lesser Celandine
flowering plant	Ficaria verna var. bulbifer	Lesser Celandine
flowering plant	Filipendula ulmaria	Meadowsweet
flowering plant	Frangula alnus	Alder Buckthorn
flowering plant	Fraxinus excelsior	Ash
flowering plant	Galeopsis tetrahit agg.	Common Hemp-Nettle agg.
flowering plant	Galium aparine	Cleavers
flowering plant	Galium mollugo subsp. mollugo	Great Hedge Bedstraw
flowering plant	Galium saxatile	Heath Bedstraw
flowering plant	Geranium macrorrhizum	Rock Crane's-bill
flowering plant	Geranium molle	Dove's-foot Crane's-bill
flowering plant	Geranium robertianum	Herb-Robert
flowering plant	Geum urbanum	Wood Avens
flowering plant	Glechoma hederacea	Ground-ivy
flowering plant	Glyceria fluitans	Floating Sweet-grass
flowering plant	Glyceria maxima	Reed Sweet-grass
flowering plant	Hedera helix	lvy
flowering plant	Hedera helix subsp. helix	Common Ivy
flowering plant	Heracleum sphondylium	Hogweed
flowering plant	Hesperis matronalis	Dame's-violet
flowering plant	Holcus lanatus	Yorkshire-fog
flowering plant	Holcus mollis	Creeping Soft-grass
flowering plant	Hyacinthoides non-scripta	Bluebell
	Hyacinthoides non-scripta x	
flowering plant	hispanica = H. x massartiana	Hybrid Bluebell
flowering plant	Hydrangea petiolaris	Hydrangea
flowering plant	Hypericum androsaemum	Tutsan
flowering plant	Hypericum maculatum	Imperforate St John's-wort
flowering plant	Hypochaeris radicata	Cat's-ear
flowering plant	Ilex aquifolium	Holly
flowering plant	Iris pseudacorus	Yellow Iris
flowering plant	Iris pseudacorus	Yellow Flag
flowering plant	Jacobaea vulgaris	Common Ragwort
flowering plant	Juncus	Common Rush
flowering plant	Juncus acutiflorus	Sharp-flowered Rush
flowering plant	Juncus conglomeratus	Compact Rush
flowering plant	Juncus effusus	Soft-rush
flowering plant	Juncus inflexus	Hard Rush
	Lamiastrum galeobdolon subsp.	
flowering plant	argentatum	Yellow Archangel
flowering plant	Lamium album	White Dead-nettle
flowering plant	Lapsana communis	Nipplewort
flowering plant	Lathyrus pratensis	Meadow Vetchling
flowering plant	Lemna minor	Common Duckweed
flowering plant	Leucanthemum vulgare	Oxeye Daisy
flowering plant	Lolium perenne	Perennial Rye-grass

flowering plant	Lonicera henryi	Henry's Honeysuckle
flowering plant	Lonicera periclymenum	Honeysuckle
flowering plant	Lotus corniculatus	Common Bird's-foot-trefoil
flowering plant	Lotus pedunculatus	Greater Bird's-foot-trefoil
flowering plant	Lunaria annua	Honesty
flowering plant	Luzula campestris	Field Wood-rush
flowering plant	Lycopus europaeus	Gypsywort
flowering plant	Lysimachia vulgaris	Yellow Loosestrife
flowering plant	Lythrum salicaria	Purple-loosestrife
flowering plant	Mahonia aquifolium	Oregon-grape
flowering plant	Matricaria discoidea	Pineappleweed
flowering plant	Medicago lupulina	Black Medick
flowering plant	Mentha aquatica	Water Mint
flowering plant	Menyanthes trifoliata	Bogbean
flowering plant	Milium effusum	Wood Millet
flowering plant	Mimulus guttatus	Monkeyflower
flowering plant	Mimulus luteus	Blood-drop-emlets
flowering plant	Myosotis	Forget-Me-Not
flowering plant	Myosotis arvensis	Field Forget-me-not
flowering plant	Myosotis scorpioides	Water Forget-me-not
flowering plant	Myosotis sylvatica	Wood Forget-me-not
flowering plant	Narcissus	daffodils
	Narcissus pseudonarcissus subsp.	
flowering plant	pseudonarcissus	Daffodil
flowering plant	Oxalis acetosella	Wood-sorrel
flowering plant	Persicaria campanulata	Lesser Knotweed
flowering plant	Persicaria hydropiper	Water-pepper
flowering plant	Phleum pratense	Timothy
flowering plant	Phragmites australis	Common Reed
flowering plant	Pilosella aurantiaca	Fox-and-cubs
flowering plant	Plantago lanceolata	Ribwort Plantain
flowering plant	Plantago major	Greater Plantain
flowering plant	Роа	Meadow-Grass
flowering plant	Poa annua	Annual Meadow-grass
flowering plant	Poa pratensis	Smooth Meadow-Grass
flowering plant	Poa trivialis	Rough Meadow-grass
flowering plant	Polygonum aviculare agg.	Knotgrass agg.
flowering plant	Populus tremula	Aspen
flowering plant	Potamogeton crispus	Curled Pondweed
flowering plant	Potentilla anglica	Trailing Tormentil
flowering plant	Potentilla palustris	Marsh Cinquefoil
flowering plant	Potentilla reptans	Creeping Cinquefoil
flowering plant	Primula veris	Cowslip
flowering plant	Prunella vulgaris	Selfheal
flowering plant	Prunus	Cherry
flowering plant	Prunus avium	Wild Cherry
flowering plant	Prunus domestica	Wild Plum
flowering plant	Prunus laurocerasus	Cherry Laurel

16			
	flowering plant	Prunus padus	Bird Cherry
	flowering plant	Prunus spinosa	Blackthorn
		Prunus spinosa x domestica = P. x	
	flowering plant	fruticans	Cherry
	flowering plant	Pyracantha	flowering plant
	flowering plant	Pyrus communis	Pear
	flowering plant	Quercus	Oak
	flowering plant	Quercus petraea	Sessile Oak
	flowering plant	Quercus robur	Pedunculate Oak
	flowering plant	Ranunculus acris	Meadow Buttercup
	flowering plant	Ranunculus flammula	Lesser Spearwort
	flowering plant	Ranunculus repens	Creeping Buttercup
	flowering plant	Ranunculus sceleratus	Celery-leaved Buttercup
	flowering plant	Reseda lutea	Wild Mignonette
	flowering plant	Rhinanthus minor	Yellow-rattle
	flowering plant	Ribes nigrum	Black Currant
	flowering plant	Ribes rubrum	Red Currant
	flowering plant	Rorippa nasturtium-aquaticum aga.	Water Cress
	flowering plant	Rorippa palustris	Marsh Yellow-cress
	flowering plant	Rosa arvensis	Field-rose
	flowering plant	Rosa canina aga.	Dog Rose
	flowering plant	Rosa rugosa	Japanese Rose
	flowering plant	Rubus caesius	Dewberry
	flowering plant	Rubus fruticosus aga.	Blackberry
	flowering plant	Rubus idaeus	Baspberry
	flowering plant	Rumex acetosa	Common Sorrel
	flowering plant	Rumex acetosella	Sheep's Sorrel
	flowering plant	Rumex conalomeratus	Clustered Dock
	flowering plant	Rumex crispus	Curled Dock
	flowering plant	Rumex obtusifolius	Broad-leaved Dock
	flowering plant	Saaina procumbens	Procumbent Pearlwort
	flowering plant	Salix	Willow
	flowering plant	Salix alba	White Willow
	flowering plant	Salix caprea	Goat Willow
	flowering plant	Salix cinerea	Common Sallow
	flowering plant	Salix euxing x alba = $S \times fragilis$	Crack-willow
	flowering plant	Salix pentandra	Bay Willow
	flowering plant	Salix viminalis	
	flowering plant	Samhucus niara	Flder
	flowering plant	Sanguisorha officinalis	Great Burnet
	flowering plant	Sangaisorba officinalis	Soapwort
	flowering plant		flowering plant
ļ	flowering plant	Scrophylaria auriculata	Water Figwort
ļ	flowering plant	Scrophularia podosa	Common Eigwort
ļ	flowering plant	Senecio ingeguidene	Narrow Joaved Pagwert
	flowering plant	Seriecio indeguideris	Ovford Dogwort
ļ	flowering plant		
ļ	flowering plant	Seriecio vuigaris	Groundsei
	tiowering plant	Silene aloica	Ked Campion

flowering plant	Silene flos-cuculi	Ragged-Robin
flowering plant	Silene latifolia	White Campion
flowering plant	Sinapis arvensis	Charlock
flowering plant	Sisymbrium officinale	Hedge Mustard
flowering plant	Solanum dulcamara	Bittersweet
flowering plant	Solidago	Goldenrod
flowering plant	Sonchus oleraceus	Smooth Sow-thistle
flowering plant	Sorbus aria agg.	Whitebeam
flowering plant	Sorbus aucuparia	Rowan
flowering plant	Sparganium erectum	Branched Bur-reed
flowering plant	Stachys sylvatica	Hedge Woundwort
flowering plant	Stellaria alsine	Bog Stitchwort
flowering plant	Stellaria graminea	Lesser Stitchwort
flowering plant	Stellaria media agg.	Chickweed
flowering plant	Symphoricarpos albus	Snowberry
flowering plant	Taraxacum officinale agg.	Dandelion
flowering plant	Tellima grandiflora	Fringecups
flowering plant	Trifolium dubium	Lesser Trefoil
flowering plant	Trifolium medium	Zigzag Clover
flowering plant	Trifolium pratense	Red Clover
flowering plant	Trifolium repens	White Clover
flowering plant	Tussilago farfara	Colt's-foot
flowering plant	Typha angustifolia	Lesser Bulrush
flowering plant	Typha latifolia	Bulrush
flowering plant	Ulex europaeus	Gorse
flowering plant	Ulmus	Elm
flowering plant	Ulmus procera	English Elm
flowering plant	Urtica dioica	Common Nettle
flowering plant	Valeriana officinalis	Common Valerian
flowering plant	Veronica arvensis	Wall Speedwell
flowering plant	Veronica beccabunga	Brooklime
flowering plant	Veronica chamaedrys	Germander Speedwell
flowering plant	Veronica hederifolia	Ivy-leaved Speedwell
flowering plant	Veronica persica	Common Field-speedwell
flowering plant	Viburnum lantana	Wayfaring-tree
flowering plant	Viburnum opulus	Guelder-rose
flowering plant	Vicia cracca	Tufted Vetch
flowering plant	Vicia sativa	Common Vetch
flowering plant	Vicia sativa subsp. sativa	Cultivated Vetch
flowering plant	Vinca minor	Lesser Periwinkle
flowering plant	Viola riviniana	Common Dog-violet
horsetail	Equisetum arvense	Field Horsetail
horsetail	Equisetum fluviatile	Water Horsetail
	Equisetum fluviatile x arvense = E. x	
horsetail	litorale	Shore Horsetail
horsetail	Equisetum palustre	Marsh Horsetail
horsetail	Equisetum sylvaticum	Wood Horsetail
insect - beetle (Coleoptera)	Cantharis nigricans	insect - beetle (Coleoptera)

insect - beetle (Coleoptera)	Dytiscidae	insect - beetle (Coleoptera)
insect - butterfly	Aglais io	Peacock
insect - butterfly	Aglais urticae	Small Tortoiseshell
insect - butterfly	Anthocharis cardamines	Orange-tip
insect - butterfly	Anthocharis cardamines britannica	Orange-tip
insect - butterfly	Gonepteryx rhamni	Brimstone
insect - butterfly	Gonepteryx rhamni rhamni	Brimstone
insect - butterfly	Lycaena phlaeas	Small Copper
insect - butterfly	Pararge aegeria	Speckled Wood
insect - butterfly	Pieris napi	Green-veined White
insect - butterfly	Pieris rapae	Small White
insect - butterfly	Polygonia c-album	Comma
insect - butterfly	Thymelicus sylvestris	Small Skipper
insect - butterfly	Vanessa atalanta	Red Admiral
insect - caddis fly (Trichoptera)	Trichoptera	caddisflies
insect - dragonfly (Odonata)	Aeshna grandis	Brown Aeshna
insect - dragonfly (Odonata)	Aeshna juncea	Common Aeshna
insect - dragonfly (Odonata)	Enallagma cyathigerum	Common Blue Damselfly
insect - dragonfly (Odonata)	Zygoptera	insect - dragonfly (Odonata)
insect - hymenopteran	Andrena haemorrhoa	Orange-tailed Mining Bee
insect - hymenopteran	Bombus hortorum	Garden Bumblebee
insect - mayfly (Ephemeroptera)	Ephemeroptera	Mayfly
insect - moth	Abrostola tripartita	Spectacle
insect - moth	Acronicta aceris	Sycamore
insect - moth	Apamea monoglypha	Dark Arches
insect - moth	Cabera pusaria	Common White Wave
insect - moth	Eilema lurideola	Common Footman
insect - moth	Epirrhoe alternata	Common Carpet
insect - moth	Eulithis prunata	Phoenix
insect - moth	Euthrix potatoria	Drinker
insect - moth	Hemithea aestivaria	Common Emerald
insect - moth	Hypena proboscidalis	Snout
insect - moth	Idaea aversata ab. remutata	Riband Wave (non-banded form)
insect - moth	Idaea biselata	Small Fan-footed Wave
insect - moth	Melanchra persicariae	Dot Moth
insect - moth	Mesapamea secalis agg.	Common Rustic agg.
insect - moth	Mythimna impura	Smoky Wainscot
		Lesser Broad-bordered Yellow
insect - moth	Noctua janthe	Underwing
insect - moth	Noctua pronuba	Large Yellow Underwing
insect - moth	Plemyria rubiginata	Blue-bordered Carpet
insect - moth	Pleuroptya ruralis	Mother of Pearl
insect - moth	Xanthorhoe fluctuata	Garden Carpet
insect - true bug (Hemiptera)	Corixidae	Lesser Water-Boatman
insect - true fly (Diptera)	Bombylius major	Dark-edged Bee-fly
insect - true fly (Diptera)	Chironomidae	insect - true fly (Diptera)
insect - true fly (Diptera)	Chironomidae	insect - true fly (Diptera)
mollusc	Hippeutis complanatus	Flat Ramshorn

mollusc	Pisidium	Indet. Pea Mussel
mollusc	Radix balthica	Wandering Snail
moss	Rhytidiadelphus squarrosus	Springy Turf-moss
terrestrial mammal	Arvicola amphibius	European Water Vole
terrestrial mammal	Chiroptera	Bats
terrestrial mammal	Erinaceus europaeus	West European Hedgehog
terrestrial mammal	Felis catus	Feral Cat
terrestrial mammal	Myotis daubentonii	Daubenton's Bat
terrestrial mammal	Nyctalus noctula	Noctule Bat
terrestrial mammal	Oryctolagus cuniculus	European Rabbit
terrestrial mammal	Pipistrellus	Pipistrelle
terrestrial mammal	Pipistrellus pipistrellus	Pipistrelle
terrestrial mammal	Pipistrellus pipistrellus	Common Pipistrelle
terrestrial mammal	Pipistrellus pygmaeus	Soprano Pipistrelle
terrestrial mammal	Rattus norvegicus	Brown Rat
terrestrial mammal	Sciurus carolinensis	Eastern Grey Squirrel
terrestrial mammal	Talpa europaea	European Mole
terrestrial mammal	Vulpes vulpes	Red Fox

Records from surveys carried out during 2021

Taxon group	Scientific Name	Common Name
annelid	Hirudinea	Leech
annelid	Oligochaeta	Bloodworm
platyhelminthe	Tricladida	Flatworm
bird	Aegithalos caudatus	Long-tailed Tit
bird	Anas platyrhynchos	Mallard
bird	Anas platyrhynchos domesticus	Domestic Duck
bird	Anser anser	Greylag Goose
bird	Apus apus	Swift
bird	Ardea cinerea	Grey Heron
bird	Aythya fuligula	Tufted Duck
bird	Branta canadensis	Canada Goose
bird	Buteo buteo	Buzzard
bird	Carduelis carduelis	Goldfinch
bird	Certhia familiaris	Treecreeper
bird	Chloris chloris	Greenfinch
bird	Chroicocephalus ridibundus	Black-headed Gull
bird	Coloeus monedula	Jackdaw
bird	Columba livia	Feral Pigeon
bird	Columba oenas	Stock Dove
bird	Columba palumbus	Woodpigeon
bird	Corvus corone	Carrion Crow
bird	Curruca communis	Whitethroat
bird	Cyanistes caeruleus	Eurasian Blue Tit
bird	Cygnus olor	Mute Swan
bird	Delichon urbicum	Common House Martin

birdErithacus rubeculaRobinbirdFringilia coelebsCommon ChaffinchbirdFulica otraEurasian CootbirdGarrulus glondariusJaybirdGarrulus glondariusJaybirdLorus fuscusLesser Black-backed GullbirdLorus fuscusLesser Black-backed GullbirdMotacilla albaPied WagtailbirdMotacilla cinereaGrey WagtailbirdParus majorGreat TitbirdParus majorGreat TitbirdParus majorGorat TitbirdParus majorCol TitbirdPhalacrocarax carboCormorantbirdPhalacrocarax carboCormorantbirdPhylloscopus collybitaChiffchaffbirdPrunella modularisDunnockbirdPyrnula pyrrhulaEurasian BullfinchbirdSpinus spinusGoldcrestbirdStrate grapusGoldcrestbirdStraturgalisStarlingbirdStraturgalisEurasian BlackapbirdTradglodytes trafjodytesEurasian BlackapbirdTrads philomelosSong ThrushbirdTradus philomelosSong ThrushbirdTradus philomelosSong ThrushbirdTrads visiorusMister ThrushbirdTradus philomelosSong ThrushbirdTradus philomelosSong ThrushbirdTradus philomelosSong ThrushbirdTradus philomel	bird	Dendrocopos major	Great Spotted Woodpecker
birdFringilla coelebsCommon ChaffinchbirdFulka atraEurasian CootbirdGallinula chloropusMoorhenbirdGarulus glandariusJaybirdHirundo rusticaSwallowbirdLorus JuscusLesser Black-backed GullbirdMotacilla oibaPied WagtailbirdMotacilla cinereaGrey WagtailbirdParus majorGreat TitbirdParus majorGreat TitbirdPariparus aterCoal TitbirdPhiloscopus collybitaChiffchaffbirdPhiloscopus collybitaChiffchaffbirdPricus virialisEurospean Green WoodpeckerbirdPrus virialisEurospean Green WoodpeckerbirdPrunula pyrrhulaEurasian NuthatchbirdStitte europeeaEurasian NuthatchbirdStreptopelia decoactoCollared DovebirdStreptopelia decoactoCollared DovebirdToroglodytes troglodytesEurasian BlackcapbirdToroglodytes troglodytesEurasian NuthatchbirdTurdus philomelosSong ThrushbirdTurdus gladususSkelindbirdTurdus gladususStarlingbirdToroglodytes troglodytesEurasian NuthatchbirdTurdus gladususSong ThrushbirdTurdus gladususSong ThrushbirdTurdus gladususSong ThrushbirdTurdus gladususSong ThrushbirdTurd	bird	Erithacus rubecula	Robin
bird Fulca atra Eurasian Coot bird Gollinula chioropus Moorhen bird Gorrulus glandarius Jay bird Larus fuscus Lesser Black-backed Gull bird Motacilla alba Pied Wagtail bird Motacilla alba Pied Wagtail bird Motacilla cinerea Grey Wagtail bird Parus major Great Tit bird Parus major Great Tit bird Parus domesticus House Sparrow bird Phalacrocorax carbo Controrant bird Phylacocopus callybita Chiffchaff bird Phylacocopus callybita Chiffchaff bird Prunella modularis Dunnock bird Puruella modularis Dunnock bird Stita europea Eurasian Nuthatch bird Strate auropea Eurasian Nuthatch bird Strapopeila decaacto Collared Dove bird Sturnus vulgaris Starling bird Tordolytes trajfoolites Eurasian Nuthatch bird Tardus philomelos Song Thrush bird Tardus philomelos Song Thrush bird Turdus merula Blackbird <tr< td=""><td>bird</td><td>Fringilla coelebs</td><td>Common Chaffinch</td></tr<>	bird	Fringilla coelebs	Common Chaffinch
birdGallinula chloropusMoorhenbirdGarrulus glandariusJaybirdHirundo rusticaSwallowbirdLarus fuscusLesser Black-backed GullbirdMatacilla cinareaGrey WagtailbirdMatacilla cinareaGrey WagtailbirdParus majorGreat TitbirdParus majorGreat TitbirdParus majorGreat TitbirdParus majorCoal TitbirdPeriparus oterCoal TitbirdPhylloscopus callybitaChiffchaffbirdPhylloscopus callybitaEurosean Green WoodpeckerbirdPyrhula pyrthulaEurasian BullfinchbirdPyrnhula pyrthulaEurasian BullfinchbirdSpinus spinusGoldcrestbirdSpinus spinusSiskinbirdStreptopelia decoactoCollared DovebirdStylvia atricopillaEurasian BullefinchbirdSylvia atricopillaEurasian BlackcapbirdTochybaptus ruffcollisLittle GrebebirdTordydylets troglodytesEurasian BlackcapbirdTurdus philomelosSong ThrushbirdTurdus philomelosSong ThrushbirdTurdus philomelosSong ThrushbirdTurdus philomelosSong ThrushbirdTurdus philomelosSong ThrushbirdTurdus gabiomMiste ThrushbirdTurdus gabiomMiste ThrushbirdTurdus gabiomBlackbird<	bird	Fulica atra	Eurasian Coot
bird Garrulus glandarius Jay bird Hirundo rustica Swallow bird Lorus fuscus Lesser Black-backed Gull bird Motocilla alba Pied Wagtal bird Motocilla cinerea Grey Wagtal bird Parus major Great Tit bird Parus major Great Tit bird Periporus oter Coal Tit bird Phalacrocorax carbo Cormorant bird Phulacrocorax carbo Cormorant bird Phunella modularis Dunnock bird Prunella modularis Dunnock bird Puruella pyrthula Eurasian Bulfinch bird Sitta europaea Eurasian Nuthatch bird Streptopelia decaacto Collared Dove bird Sturnus vulgaris Starling bird Sturnus vulgaris Starling bird Tordybaptus ruffcollis Little Grebe bird Tordus pholomelos Song Thrush bird Turdus merula <	bird	Gallinula chloropus	Moorhen
bird Hirundo rustica Swallow bird Larus fuscus Lesser Black-backed Gull bird Motacilla cinerea Grey Wagtail bird Parus major Great Tit bird Passer domesticus House Sparrow bird Passer domesticus House Sparrow bird Phalacrocorax carbo Cormorant bird Phylloscopus collybita Chiffchaff bird Phylloscopus collybita Chiffchaff bird Pyrula gyrthula Eurospaan Green Woodpecker bird Pyrulua gyrthula Eurasian Bullfinch bird Sitta europaea Eurasian Bullfinch bird Spinus spinus Siskin bird Strate avagaa Starling bird Sturnus vulgaris Starling bird Sylvia atricapilla Eurasian Blackcap bird Tachybaptus ruficollis Little Grebe bird Tachybaptus ruficollis Blackbird bird Turdus filocuus Redwing bird <td>bird</td> <td>Garrulus glandarius</td> <td>Jay</td>	bird	Garrulus glandarius	Jay
bird Larus fuscus Lesser Black-backed Gull bird Motacilla alba Pied Wagtail bird Motacilla cinerea Grey Wagtail bird Parus major Great Tit bird Parus major Great Tit bird Periprus ater Coal Tit bird Pholacrocorax corbo Cormorant bird Phylloscopus collybita Chiffchaff bird Phylloscopus collybita European Green Woodpecker bird Prunella modularis Dunnock bird Perunal amodularis Dunnock bird Sitta europaea Eurasian Bullfinch bird Sitta europaea Eurasian Nuthatch bird Sitta europaea Eurasian Blackcap bird Sturnus vulgaris Starling bird Sturnus vulgaris Starling bird Turdus arizain Blackcap Eurasian Blackcap bird Turdus siliacus Redwing bird Turdus philomelos Song Thrush bird <	bird	Hirundo rustica	Swallow
bird Motacilla alba Pied Wagtail bird Motacilla cinerea Grey Wagtail bird Parus major Great Tit bird Passer damesticus House Sparrow bird Periparus ater Coal Tit bird Pholacrocorax carbo Cormorant bird Pholacrocorax carbo Cormorant bird Phylloscopus collybita Chiffchaff bird Phylloscopus collybita Chiffchaff bird Prunella modularis Dunnock bird Prunella modularis Dunnock bird Sitta europaea Eurasian Bullfinch bird Sitta europaea Eurasian Sullfinch bird Starting Siskin bird Streptopelia decacto Collared Dove bird Streptopelia decacto Collared Dove bird Tordybaytes trajolytes Eurasian Myren bird Tordus siciovorus Redwing bird Tordus merula Blackbird bird Turdus merula </td <td>bird</td> <td>Larus fuscus</td> <td>Lesser Black-backed Gull</td>	bird	Larus fuscus	Lesser Black-backed Gull
birdMotacilla cinereaGrey WagtailbirdParus majorGreat TitbirdParser domesticusHouse SparrowbirdPeriparus aterCoal TitbirdPhalacrocorax carboCormorantbirdPhalacrocorax carboCormorantbirdPhalacrocorax carboCormorantbirdPriparus aterCoal TitbirdPrunella modularisDunnockbirdPurnella modularisDunnockbirdPyrrhula pyrrhulaEurasian BulfinchbirdSpinus spinusGoldcrestbirdStrat europaeaEurasian NuthatchbirdStreptopelia decaoctoCollared DovebirdStreptopelia decaoctoCollared DovebirdSylvia atricapillaEurasian BlackcapbirdTachybaptus ruficollisLittle GrebebirdTachybaptus ruficollisLittle GrebebirdTurdus iliacusRedwingbirdTurdus iliacusRedwingbirdTurdus iliacusRedwingbirdTurdus phiomelosSong ThrushbirdTurdus phoxinusMinnowconferTaxus baccataYewcrustaceanAsellus (Asellus) quaticusWater hog lice/slaterscrustaceanGamarus pulex/fossarum agg.crustaceanfernAsellus (Asellus) quaticusWater hog lice/slaterscrustaceanGamarus pulex/fossarum agg.GrustaceanfernAsellenium aquilinumBrackenflowering pl	bird	Motacilla alba	Pied Wagtail
birdParus majorGreat TitbirdPasser domesticusHouse SparrowbirdPeriparus aterCoal TitbirdPhilacrocorx carboCorrorantbirdPhylloscopus collybitaChiffchaffbirdPicus viridisEuropean Green WoodpeckerbirdPiruella modularisDunnockbirdPyrrhula pyrrhulaEurasian BullfinchbirdSitta europaeaEurasian BullfinchbirdSitta europaeaEurasian NuthatchbirdStreptopelia decaoctoCollared DovebirdStreptopelia decaoctoCollared DovebirdStreptopelia decaoctoCollared DovebirdStreptopelia decaoctoCollared DovebirdStreptopelia decaoctoCollared DovebirdTachybaptus ruficollisLittle GrebebirdTachybaptus ruficollisLittle GrebebirdTurdus iniccusRedwingbirdTurdus philomelosSong ThrushbirdTurdus phoxinusMistle ThrushbirdTurdus phoxinusMistle ThrushbirdTurdus sociopandirumHart's-tongue fernfernAsplenium scolopendriumHart's-tongue fernfernAsplenium scolopendriumBrackenfernAsellus (Asellus) aquaticusVarewrustaceanGammarus pulex/fossarum agg.TrustaceanfernAsplenium scolopendriumBrackenfowering plantAcer compestreField Mapleflowering plantAc	bird	Motacilla cinerea	Grey Wagtail
bird Passer domesticus House Sparrow bird Periparus ater Coal Tit bird Phallacrocorax carbo Cormorant bird Phylloscopus collybita Chiffchaff bird Picus viridis European Green Woodpecker bird Prunella modularis Dunnock bird Pyrthula pyrthula Eurasian Bullfinch bird Pyrthula pyrthula Eurasian Nuthatch bird Stata europaea Eurasian Nuthatch bird Stare europaea Eurasian Nuthatch bird Strating Siskin bird Streptopelia decaocto Collared Dove bird Sturnus vulgaris Starling bird Tachybaptus ruficoliis Little Grebe bird Turdus liacus Redwing bird Turdus merula Blackbird bird Turdus seriorus Mistel Thrush bord Turdus socionus Minnow conifer Tacks baccata Yew crustacean Asellus (bird	Parus maior	Great Tit
birdPeriparus aterCoal TitbirdPhalacrocorax carboCormorantbirdPhylloscopus collybitaChiffchaffbirdPicus viridisEuropean Green WoodpeckerbirdPrunella modularisDunnockbirdPyrrhula pyrrhulaEurasian BullfinchbirdRegulus regulusGoldcrestbirdSitte europaeaEurasian NuthatchbirdStreptopelia decoctoCollared DovebirdStreptopelia decoctoCollared DovebirdStreptopelia decoctoCollared DovebirdStreptopelia decoctoCollared DovebirdStreptopelia decoctoCollared DovebirdStreptopelia decoctoCollared DovebirdTachybaptus ruficollisLittle GrebebirdTroglodytes troglodytesEurasian BlackapbirdTurdus iliacusRedwingbirdTurdus siniacusMistle ThrushbordTurdus spilomelosSong ThrushbirdTurdus spilomelosSong ThrushbirdTurdus sociorusMistle Thrushbony fish (Actinopterygii)Phoxinus phoxinusMinnowconiferTaxus baccataYewcrustaceanAsellus (Asellus) aquaticusWater hog lice/slaterscrustaceanGalmarus pulex/fossarum agg.crustaceanfernPrevidum aquilinumBrackenflowering plantAcer campestreField Mapleflowering plantAcer campestreField Mapleflowering p	bird	Passer domesticus	House Sparrow
birdPhalacrocorax carboCormorantbirdPhylloscopus collybitaChiffchaffbirdPicus viridisEuropean Green WoodpeckerbirdPrunella modularisDunnockbirdPyrrhula pyrrhulaEurasian BullfinchbirdPyrrhula pyrrhulaEurasian BullfinchbirdRegulus regulusGoldcrestbirdSitte europeanEurasian NuthatchbirdStreptopelia decoactoCollared DovebirdStreptopelia decoactoCollared DovebirdStreptopelia decoactoCollared DovebirdStreptopelia decoactoCollared DovebirdStreptopelia decoactoCollared DovebirdTachybaptus ruficollisLittle GrebebirdTochybaptus ruficollisLittle GrebebirdTurdus iliacusRedwingbirdTurdus sinionusMintonusbirdTurdus sinionusMintonusbirdTurdus sinionusMinnowconstreygii)Cottus gobioBullheadbony fish (Actinopterygii)Phoxinus phoxinusMinnowconstaceanAsellus (Asellus) aquaticusWater hog lice/slaterscrustaceanGappenium scolopendriumHart's-tongue fernfernAsplenium scolopendriumHart's-tongue fernfernPrevidium aquilinumBrackenflowering plantAcer campestreField Mapleflowering plantAcer campestreField Mapleflowering plantAcer campestreField Maple <td>bird</td> <td>Periparus ater</td> <td>Coal Tit</td>	bird	Periparus ater	Coal Tit
birdPhylloscopus collybitaChiffchaffbirdPicus viridisEuropean Green WoodpeckerbirdPyrnhula modularisDunnockbirdPyrrhula pyrrhulaEurasian BullfinchbirdRegulus regulusGoldcrestbirdSitta europaeaEurasian NuthatchbirdStreptopelia decaoctoCollared DovebirdSturnus vulgarisStarlingbirdSturnus vulgarisStarlingbirdSturnus vulgarisEurasian BlackcapbirdTochybaptus ruficollisLittle GrebebirdTochybaptus ruficollisLittle GrebebirdTurdus iliacusRedwingbirdTurdus sulicovaSong ThrushbirdTurdus sulicovaMistle Thrushbony fish (Actinopterygii)Cottus gobioBullheadbony fish (Actinopterygii)Phoxinus phaxinusMinnowconsiderTaxus baccataYewcrustaceanAselius (Asellus) aquaticusWater hog lice/slatersfernAcer campestreField Mapleflowering plantAcer campestreField Mapleflowering plantAcer campestreField Mapleflowering plantAcer seudoplatanusSycamoreflowering plantAcer seudoplatanusSycamoreflowering plantAcexitelinaMoschatelflowering plantAcexitelinaMoschatelflowering plantAcexitelinaMoschatelflowering plantAgrostis stoloniferaCornon Bent <td< td=""><td>bird</td><td>Phalacrocorax carbo</td><td>Cormorant</td></td<>	bird	Phalacrocorax carbo	Cormorant
BirdPicus viridisEuropean Green WoodpeckerbirdPrunella modularisDunnockbirdPyrrhula pyrrhulaEurasian BullfinchbirdRegulus regulusGoldcrestbirdSitta europeaaEurasian BullfinchbirdSitta europeaaEurasian NuthatchbirdStreptopelia decaoctoCollared DovebirdStreptopelia decaoctoCollared DovebirdSturnus vulgarisStarlingbirdSturnus vulgarisStarlingbirdTachybaptus ruficollisLittle GrebebirdTroglodytes troglodytesEurasian BlackcapbirdTroglodytes troglodytesEurasian WrenbirdTurdus philomelosSong ThrushbirdTurdus philomelosSong ThrushbirdTurdus philomelosSong ThrushbirdTurdus philomelosBullheadbony fish (Actinopterygii)Cottus gobioBullheadbony fish (Actinopterygii)Phoxinus phaxinusMinnowcrustaceanAsellus (Asellus) aquaticusWater hog lice/slaterscrustaceanGammarus pulex/fossarum agg.crustaceanfernPrevidium aquilinumBrackenflowering plantAcer appestreField Mapleflowering plantAcer appestreField Mapleflowering plantAcer appestreGreanflowering plantAcer bipcocatanumHorse-chestnutflowering plantAcer pseudoplatanusSycamoreflowering plantAcer is stoloni	bird	Phylloscopus collybita	Chiffchaff
DirdPrunella modularisDunnockbirdPyrrhula pyrrhulaEurasian BullfinchbirdRegulus regulusGoldcrestbirdSitta europaeaEurasian NuthatchbirdSpinus spinusSiskinbirdSpinus spinusSiskinbirdStreptopella decaoctoCollared DovebirdSturnus vulgarisStarlingbirdSturnus vulgarisStarlingbirdTachybaptus ruficollisLittle GrebebirdTachybaptus ruficollisLittle GrebebirdTurdus liacusRedwingbirdTurdus liacusRedwingbirdTurdus philomelosSong ThrushbirdTurdus phoxinusMistle Thrushbony fish (Actinopterygii)Cottus gobioBullheadbony fish (Actinopterygii)Phoxinus phoxinusMinnowconiferTaxus baccataYewcrustaceanAsellus (Asellus) aquaticusWater hog lice/slatersfernAsplenium scolopendriumHard's-tongue fernfernPrevidum aquilinumBrackenflowering plantAcer campestreField Mapleflowering plantAcer pse	bird	Picus viridis	Furopean Green Woodpecker
DirdPyrrhula pyrrhulaEurasian BullfinchbirdRegulus regulusGoldcrestbirdSitta europaeaEurasian BullfinchbirdSpinus spinusSiskinbirdStreptopelia decaoctoCollared DovebirdSturnus vulgarisStarlingbirdSturnus vulgarisStarlingbirdSylvia atricapillaEurasian BlackcapbirdTachybaptus ruficollisLittle GrebebirdTachybaptus ruficollisLittle GrebebirdTurdus iliacusRedwingbirdTurdus iliacusRedwingbirdTurdus viscivorusMistle ThrushbirdTurdus spiniomelosSong ThrushbirdTurdus philomelosSong ThrushbirdTurdus viscivorusMistle Thrushbory fish (Actinopterygii)Phoxinus phoxinusMinnowconiferTaxus baccataYewcrustaceanAsellus (Asellus) aquaticusWater hog lice/slaterscrustaceanGamarus pulex/fossarum agg.crustaceanfernPteridium aquilinumBrackenflowering plantAcer campestreField Mapleflowering plantAcer campestreField Mapleflowering plantAcer campestreField Mapleflowering plantAcer seudoplatanusSycamoreflowering plantAcer seudoplatanusSycamoreflowering plantAcer seudoplatanusGround-elderflowering plantAcesulta pilloriaGround-elderflowe	bird	Prunella modularis	Dunnock
DirdFyrnduCursian bulmenbirdRegulus regulusGoldcrestbirdSitta europaeaEurasian bulmenbirdSpinus spinusSiskinbirdStreptopelia decaoctoCollared DovebirdStreptopelia decaoctoCollared DovebirdStreptopelia decaoctoCollared DovebirdSturnus vulgarisStarlingbirdStylvia atricapillaEurasian BlackcapbirdTachybaptus ruficollisLittle GrebebirdTurdus iliacusRedwingbirdTurdus merulaBlackbirdbirdTurdus philomelosSong ThrushbirdTurdus viscivorusMistle Thrushbony fish (Actinopterygii)Cottus gobioBullheadbony fish (Actinopterygii)Phoxinus phoxinusWater hog lice/slaterscrustaceanAsellus (Asellus) aquaticusWater hog lice/slaterscrustaceanGamarus pulex/fossarum agg.crustaceanfernAsplenium scolopendriumHart's-tongue fernfernPteridium aquilinumBrackenflowering plantAcer campestreField Mapleflowering plantAcer campestreField Mapleflowering plantAcer campestreGround-elderflowering plantAcer campestreGround-elderflowering plantAcer campestreGround-elderflowering plantAcer scillinaMoschatelflowering plantAcer scillinaMoschatelflowering plantAgrostis stolonifera	bird	Pyrrhula pyrrhula	Eurasian Bullfinch
DirdRegularizedDirdbirdSitta europaeaEurasian NuthatchbirdSpinus spinusSiskinbirdStreptopelia decaoctoCollared DovebirdSturnus vulgarisStarlingbirdSturnus vulgarisStarlingbirdSylvia atricapillaEurasian BlackcapbirdTachybaptus ruficollisLittle GrebebirdTachybaptus ruficollisEurasian BlackcapbirdTardus philomelosRedwingbirdTurdus merulaBlackbirdbirdTurdus philomelosSong ThrushbirdTurdus viscivorusMistle Thrushbony fish (Actinopterygii)Cottus gobioBullheadbony fish (Actinopterygii)Phoxinus phoxinusWater hog lice/slaterscrustaceanAsellus (Asellus) aquaticusWater hog lice/slaterscrustaceanGammarus pulex/fossarum agg.Male FernfernAsplenium scolopendriumHart's-tongue fernfowering plantAcer campestreField Mapleflowering plantAcer campestreField Mapleflowering plantAcer campestreField Mapleflowering plantAcer socialeriaGround-elderflowering plantAcer campestreField Mapleflowering plant	bird	Regulus regulus	Goldcrest
DirdDirdDirdDirdbirdSpinus spinusSiskinbirdStreptopelia decaoctoCollared DovebirdSturnus vulgarisStarlingbirdSylvia atricapillaEurasian BlackcapbirdTachybaptus ruficollisLittle GrebebirdTachybaptus ruficollisLittle GrebebirdTurdus iliacusRedwingbirdTurdus merulaBlackbirdbirdTurdus philomelosSong ThrushbirdTurdus viscivorusMistle Thrushbory fish (Actinopterygii)Cottus gobioBullheadbory fish (Actinopterygii)Phoxinus phoxinusMinnowconiferTaxus baccataYewcrustaceanAsellus (Asellus) aquaticusWater hog lice/slatersfernAsplenium scolopendriumHart's-tongue fernfernPhoxing plantAcer appestreflowering plantAcer ampestreField Mapleflowering plantAcer ampestreSycamoreflowering plantAcex caplicatinaMoschatelflowering plantAcex caplicatinaMoschatelflowering plantAcex caplicatinaGround-elderflowering plantAgostis capillarisCommon Bentflowering plantAgrostis capillarisCommon Bentflowering plantAgrostis stoloniferaCreeping Bentflowering plantAlgostis capillarisCommon Bentflowering plantAgrostis capillarisCommon Bentflowering plantAlgostis ca	bird	Sitta europaea	Eurasian Nuthatch
DirdSpinius SpiniusSpiniusbirdStreptopelia decaoctoCollared DovebirdSturnus vulgarisStarlingbirdSylvia atricapillaEurasian BlackcapbirdTachybaptus ruficollisLittle GrebebirdTroglodytes troglodytesEurasian WrenbirdTurdus iliacusRedwingbirdTurdus philomelosSong ThrushbirdTurdus philomelosSong ThrushbirdTurdus viscivorusMistle Thrushbory fish (Actinopterygii)Cottus gobioBullheadbony fish (Actinopterygii)Phoxinus phoxinusMinnowconiferTaxus baccataYewcrustaceanAsellus (Asellus) aquaticusWater hog lice/slaterscrustaceanGammarus pulex/fossarum agg.crustaceanfernPteridium aquilinumBrackenflowering plantAcer campestreField Mapleflowering plantAcer campestreField Mapleflowering plantAcesculus hippocastanumHorse-chestnutflowering plantAcesculus hippocastanumHorse-chestnutflowering plantAgrostis capillarisCormon Bentflowering plantAgrostis capillarisCreeping Bentflowering plantAgrostis capillaris	bird		
DirdStreptopend occountContract DovebirdSturnus vulgarisStarlingbirdSylvia atricapillaEurasian BlackcapbirdTachybaptus ruficollisLittle GrebebirdTurdus iliacusRedwingbirdTurdus merulaBlackbirdbirdTurdus merulaBlackbirdbirdTurdus viscivorusMistle ThrushbirdTurdus viscivorusMistle Thrushbony fish (Actinopterygii)Cottus gobioBullheadbony fish (Actinopterygii)Phoxinus phoxinusMinnowconiferTaxus baccataYewcrustaceanAsellus (Asellus) aquaticusWater hog lice/slaterscrustaceanGamarus pulex/fossarum agg.crustaceanfernPropipetis filix-mas agg.Male Fernfowering plantAcer campestreField Mapleflowering plantAcer campestreField Mapleflowering plantAcer campestreField Mapleflowering plantAcegopodium podagrariaGround-elderflowering plantAcesulus hippocastanumHorse-chestnutflowering plantAgestis toloniferaCreeping Bentflowering plantAgistis tolonifera	bird	Spirius spirius	Collared Dave
DirdStarlingStarlingbirdSylvia atricapillaEurasian BlackcapbirdTachybaptus ruficollisLittle GrebebirdTroglodytes troglodytesEurasian WrenbirdTurdus iliacusRedwingbirdTurdus merulaBlackbirdbirdTurdus merulaBlackbirdbirdTurdus yphilomelosSong ThrushbirdTurdus ysicivorusMistle Thrushbony fish (Actinopterygii)Cattus gobioBullheadbony fish (Actinopterygii)Phoxinus phoxinusMinnowconiferTaxus baccataYewcrustaceanAsellus (Asellus) aquaticusWater hog lice/slaterscrustaceanGammarus pulex/fossarum agg.crustaceanfernDryopteris filk-mas agg.Male FernfernPteridium aquilinumBrackenflowering plantAcer campestreField Mapleflowering plantAcker pseudoplatanusSycamoreflowering plantAcer sociatanumHorse-chestnutflowering plantAdoxa moschatellinaMoschatelflowering plantAgostis stoloniferaCreeping Bentflowering plantAgostis stoloniferaCoreeping Bent <td>bird</td> <td></td> <td>Collared Dove</td>	bird		Collared Dove
DirdSynda UricopilidEurasian BackCapbirdTachybaptus ruficollisLittle GrebebirdTroglodytes troglodytesEurasian WrenbirdTurdus iliacusRedwingbirdTurdus merulaBlackbirdbirdTurdus philomelosSong ThrushbirdTurdus viscivorusMistle Thrushbony fish (Actinopterygii)Cottus gobioBullheadbony fish (Actinopterygii)Phoxinus phoxinusMinnowconiferTaxus baccataYewcrustaceanAsellus (Asellus) aquaticusWater hog lice/slaterscrustaceanGammarus pulex/fossarum agg.crustaceanfernAsplenium scolopendriumHart's-tongue fernfernPteridium aquilinumBrackenflowering plantAcer campestreField Mapleflowering plantAcer amoschatellinaMoschatelflowering plantAegopolium podagrariaGround-elderflowering plantAegopolium podagrariaGround-elderflowering plantAgrostis stoloniferaCreeping Bentflowering plantAjuga reptansBugleflowering plantAjuga reptansBugleflowering plantAjuga	DIrO	Sturnus vuigaris	Starling
birdTachybaptus rujicoliisLittle GrebebirdTroglodytes troglodytesEurasian WrenbirdTurdus iliacusRedwingbirdTurdus merulaBlackbirdbirdTurdus philomelosSong ThrushbirdTurdus viscivorusMistle Thrushbony fish (Actinopterygii)Cottus gobioBullheadbony fish (Actinopterygii)Phoxinus phoxinusMinnowconiferTaxus baccataYewcrustaceanAsellus (Asellus) aquaticusWater hog lice/slaterscrustaceanGammarus pulex/fossarum agg.crustaceanfernDryopteris filix-mas agg.Male FernfernPteridium aquilinumBrackenflowering plantAcer campestreField Mapleflowering plantAcer asochatellinaMoschatelflowering plantAcer sochatellinaMoschatelflowering plantAcer sochatellinaMoschatelflowering plantAcesculus hippocastanumHorse-chestnutflowering plantAcesculus hippocastanumHorse-chestnutflowering plantAdexa moschatellinaMoschatelflowering plantAgrostis capillarisCommon Bentflowering plantAgrostis stoloniferaCreeping Bentflowering plantAgrostis stoloniferaGreeping Bentflowering plantAgrostis stoloniferaGarlic Mustardflowering plantAgrostis stoloniferaCommon Bentflowering plantAgrostis stoloniferaCreeping Bent			
birdTroglodytes troglodytesEurasian WrenbirdTurdus iliacusRedwingbirdTurdus merulaBlackbirdbirdTurdus philomelosSong ThrushbirdTurdus viscivorusMistle Thrushbony fish (Actinopterygii)Cottus gobioBullheadbony fish (Actinopterygii)Phoxinus phoxinusMinnowconiferTaxus baccataYewcrustaceanAsellus (Asellus) aquaticusWater hog lice/slaterscrustaceanGammarus pulex/fossarum agg.crustaceanfernAsplenium scolopendriumHart's-tongue fernfernPteridium aquilinumBrackenflowering plantAccer campestreField Mapleflowering plantAccer pseudoplatanusSycamoreflowering plantAdoxa moschatellinaMoschatelflowering plantAesculus hippocastanumHorse-chestnutflowering plantAgrostis capillarisCommon Bentflowering plantAgrostis stoloniferaCreeping Bentflowering plantAlgrostis stoloniferaGarlic Mustard		Tachybaptus ruficollis	Little Grebe
birdTurdus IllacusRedwingbirdTurdus merulaBlackbirdbirdTurdus philomelosSong ThrushbirdTurdus viscivorusMistle Thrushbony fish (Actinopterygii)Cottus gobioBullheadbony fish (Actinopterygii)Phoxinus phoxinusMinnowconiferTaxus baccataYewcrustaceanAsellus (Asellus) aquaticusWater hog lice/slaterscrustaceanGammarus pulex/fossarum agg.crustaceanfernAsplenium scolopendriumHart's-tongue fernfernPteridium aquilinumBrackenflowering plantAcer campestreField Mapleflowering plantAcer pseudoplatanusSycamoreflowering plantAcka moschatellinaMoschatelflowering plantAdoxa moschatellinaHorse-chestnutflowering plantAgeostis scoloniferaCreeping Bentflowering plantAgrostis scoloniferaGarlic Mustard		Troglodytes troglodytes	Eurasian wren
birdTurdus merulaBlackbirdbirdTurdus philomelosSong ThrushbirdTurdus viscivorusMistle Thrushbony fish (Actinopterygii)Cottus gobioBullheadbony fish (Actinopterygii)Phoxinus phoxinusMinnowconiferTaxus baccataYewcrustaceanAsellus (Asellus) aquaticusWater hog lice/slaterscrustaceanGammarus pulex/fossarum agg.crustaceanfernAsplenium scolopendriumHart's-tongue fernfernDryopteris filix-mas agg.Male FernfernPteridium aquilinumBrackenflowering plantAcer campestreField Mapleflowering plantAcer asochatellinaMoschatelflowering plantAcer seudoplatanusSycamoreflowering plantAcegopodium podagrariaGround-elderflowering plantAegopodium podagrariaGround-elderflowering plantAgrostis scoloniferaCreeping Bentflowering plantAgrostis stoloniferaCreeping Bentflowering plantAgrostis stoloniferaGreeping Bentflowering plantAlga reptansBugleflowering plantAlga reptansBugle	bird	Turdus Iliacus	Redwing
birdTurdus philomelosSong ThrushbirdTurdus viscivorusMistle Thrushbony fish (Actinopterygii)Cottus gobioBullheadbony fish (Actinopterygii)Phoxinus phoxinusMinnowconiferTaxus baccataYewcrustaceanAsellus (Asellus) aquaticusWater hog lice/slaterscrustaceanGammarus pulex/fossarum agg.crustaceanfernAsplenium scolopendriumHart's-tongue fernfernDryopteris filix-mas agg.Male FernfernPteridium aquilinumBrackenflowering plantAcer campestreField Mapleflowering plantAccar pseudoplatanusSycamoreflowering plantAdoxa moschatellinaMoschatelflowering plantAegopodium podagrariaGround-elderflowering plantAgrostis capillarisCommon Bentflowering plantAgrostis stoloniferaCreeping Bentflowering plantAgrostis stoloniferaGreiping Bentflowering plantAliaria petiolataGarlic Mustard	bird	lurdus merula	Blackbird
birdTurdus viscivorusMistle Thrushbony fish (Actinopterygii)Cottus gobioBullheadbony fish (Actinopterygii)Phoxinus phoxinusMinnowconiferTaxus baccataYewcrustaceanAsellus (Asellus) aquaticusWater hog lice/slaterscrustaceanGammarus pulex/fossarum agg.crustaceanfernAsplenium scolopendriumHart's-tongue fernfernDryopteris filix-mas agg.Male FernfernPteridium aquilinumBrackenflowering plantAcer campestreField Mapleflowering plantAcer pseudoplatanusSycamoreflowering plantAdoxa moschatellinaMoschatelflowering plantAdoxa moschatellinaMoschatelflowering plantAegopodium podagrariaGround-elderflowering plantAgrostis capillarisCommon Bentflowering plantAgrostis stoloniferaCreeping Bentflowering plantAgrostis stoloniferaGarlic Mustard	bird	Turdus philomelos	Song Thrush
bony fish (Actinopterygii)Cottus gobioBullheadbony fish (Actinopterygii)Phoxinus phoxinusMinnowconiferTaxus baccataYewcrustaceanAsellus (Asellus) aquaticusWater hog lice/slaterscrustaceanGammarus pulex/fossarum agg.crustaceanfernAsplenium scolopendriumHart's-tongue fernfernDryopteris filix-mas agg.Male FernfernPteridium aquilinumBrackenflowering plantAcer campestreField Mapleflowering plantAcer pseudoplatanusSycamoreflowering plantAdoxa moschatellinaMoschatelflowering plantAegopodium podagrariaGround-elderflowering plantAgostis capillarisCommon Bentflowering plantAgostis stoloniferaCreeping Bentflowering plantAgostis stoloniferaCreeping Bentflowering plantAgostis stoloniferaGreeping Bentflowering plantAgostis stoloniferaGreeping Bentflowering plantAligar eptansBugleflowering plantAgostis stoloniferaGreeping Bent	bird	Turdus viscivorus	Mistle Thrush
bony fish (Actinopterygii)Phoxinus phoxinusMinnowconiferTaxus baccataYewcrustaceanAsellus (Asellus) aquaticusWater hog lice/slaterscrustaceanGammarus pulex/fossarum agg.crustaceanfernAsplenium scolopendriumHart's-tongue fernfernDryopteris filix-mas agg.Male FernfernPteridium aquilinumBrackenflowering plantAcer campestreField Mapleflowering plantAcer pseudoplatanusSycamoreflowering plantAcer pseudoplatanusSycamoreflowering plantAdoxa moschatellinaMoschatelflowering plantAegopodium podagrariaGround-elderflowering plantAgrostis capillarisCommon Bentflowering plantAgrostis stoloniferaCreeping Bentflowering plantAgrostis stoloniferaCreeping Bentflowering plantAliga reptansBugleflowering plantAliga reptansBugle	bony fish (Actinopterygii)	Cottus gobio	Bullhead
coniferTaxus baccataYewcrustaceanAsellus (Asellus) aquaticusWater hog lice/slaterscrustaceanGammarus pulex/fossarum agg.crustaceanfernAsplenium scolopendriumHart's-tongue fernfernDryopteris filix-mas agg.Male FernfernPteridium aquilinumBrackenflowering plantAcer campestreField Mapleflowering plantAcer pseudoplatanusSycamoreflowering plantAchillea millefoliumYarrowflowering plantAdoxa moschatellinaMoschatelflowering plantAesculus hippocastanumHorse-chestnutflowering plantAgrostis stoloniferaCreeping Bentflowering plantAgrostis stoloniferaCreeping Bentflowering plantAgrostis stoloniferaGralic Mustard	bony fish (Actinopterygii)	Phoxinus phoxinus	Minnow
crustaceanAsellus (Asellus) aquaticusWater hog lice/slaterscrustaceanGammarus pulex/fossarum agg.crustaceanfernAsplenium scolopendriumHart's-tongue fernfernDryopteris filix-mas agg.Male FernfernPteridium aquilinumBrackenflowering plantAcer campestreField Mapleflowering plantAcer pseudoplatanusSycamoreflowering plantAcer pseudoplatanusSycamoreflowering plantAcer pseudoplatanusGround-elderflowering plantAdoxa moschatellinaMoschatelflowering plantAegopodium podagrariaGround-elderflowering plantAesculus hippocastanumHorse-chestnutflowering plantAgrostis capillarisCommon Bentflowering plantAgrostis stoloniferaCreeping Bentflowering plantAjuga reptansBugleflowering plantAjuga reptansBugle	conifer	Taxus baccata	Yew
crustaceanGammarus pulex/fossarum agg.crustaceanfernAsplenium scolopendriumHart's-tongue fernfernDryopteris filix-mas agg.Male FernfernPteridium aquilinumBrackenflowering plantAcer campestreField Mapleflowering plantAcer pseudoplatanusSycamoreflowering plantAchillea millefoliumYarrowflowering plantAdoxa moschatellinaMoschatelflowering plantAegopodium podagrariaGround-elderflowering plantAgrostis capillarisCommon Bentflowering plantAgrostis stoloniferaCreeping Bentflowering plantAjuga reptansBugle	crustacean	Asellus (Asellus) aquaticus	Water hog lice/slaters
fernAsplenium scolopendriumHart's-tongue fernfernDryopteris filix-mas agg.Male FernfernPteridium aquilinumBrackenflowering plantAcer campestreField Mapleflowering plantAcer pseudoplatanusSycamoreflowering plantAcer pseudoplatanusSycamoreflowering plantAchillea millefoliumYarrowflowering plantAdoxa moschatellinaMoschatelflowering plantAegopodium podagrariaGround-elderflowering plantAesculus hippocastanumHorse-chestnutflowering plantAgrostis capillarisCommon Bentflowering plantAgrostis stoloniferaCreeping Bentflowering plantAjuga reptansBugleflowering plantAliaria petiolataGarlic Mustard	crustacean	Gammarus pulex/fossarum agg.	crustacean
fernDryopteris filix-mas agg.Male FernfernPteridium aquilinumBrackenflowering plantAcer campestreField Mapleflowering plantAcer pseudoplatanusSycamoreflowering plantAcer pseudoplatanusSycamoreflowering plantAchillea millefoliumYarrowflowering plantAdoxa moschatellinaMoschatelflowering plantAegopodium podagrariaGround-elderflowering plantAesculus hippocastanumHorse-chestnutflowering plantAgrostis capillarisCommon Bentflowering plantAgrostis stoloniferaCreeping Bentflowering plantAjuga reptansBugleflowering plantAlliaria petiolataGarlic Mustard	fern	Asplenium scolopendrium	Hart's-tongue fern
fernPteridium aquilinumBrackenflowering plantAcer campestreField Mapleflowering plantAcer pseudoplatanusSycamoreflowering plantAchillea millefoliumYarrowflowering plantAdoxa moschatellinaMoschatelflowering plantAdoxa moschatellinaGround-elderflowering plantAegopodium podagrariaGround-elderflowering plantAesculus hippocastanumHorse-chestnutflowering plantAgrostis capillarisCommon Bentflowering plantAgrostis stoloniferaCreeping Bentflowering plantAjuga reptansBugleflowering plantAlliaria petiolataGarlic Mustard	fern	Dryopteris filix-mas agg.	Male Fern
flowering plantAcer campestreField Mapleflowering plantAcer pseudoplatanusSycamoreflowering plantAchillea millefoliumYarrowflowering plantAdoxa moschatellinaMoschatelflowering plantAegopodium podagrariaGround-elderflowering plantAesculus hippocastanumHorse-chestnutflowering plantAgrostis capillarisCommon Bentflowering plantAgrostis stoloniferaCreeping Bentflowering plantAjuga reptansBugleflowering plantAlliaria petiolataGarlic Mustard	fern	Pteridium aquilinum	Bracken
flowering plantAcer pseudoplatanusSycamoreflowering plantAchillea millefoliumYarrowflowering plantAdoxa moschatellinaMoschatelflowering plantAegopodium podagrariaGround-elderflowering plantAesculus hippocastanumHorse-chestnutflowering plantAgrostis capillarisCommon Bentflowering plantAgrostis stoloniferaCreeping Bentflowering plantAjuga reptansBugleflowering plantAlliaria petiolataGarlic Mustard	flowering plant	Acer campestre	Field Maple
flowering plantAchillea millefoliumYarrowflowering plantAdoxa moschatellinaMoschatelflowering plantAegopodium podagrariaGround-elderflowering plantAesculus hippocastanumHorse-chestnutflowering plantAgrostis capillarisCommon Bentflowering plantAgrostis stoloniferaCreeping Bentflowering plantAjuga reptansBugleflowering plantAlliaria petiolataGarlic Mustard	flowering plant	Acer pseudoplatanus	Sycamore
flowering plantAdoxa moschatellinaMoschatelflowering plantAegopodium podagrariaGround-elderflowering plantAesculus hippocastanumHorse-chestnutflowering plantAgrostis capillarisCommon Bentflowering plantAgrostis stoloniferaCreeping Bentflowering plantAjuga reptansBugleflowering plantAlliaria petiolataGarlic Mustard	flowering plant	Achillea millefolium	Yarrow
flowering plantAegopodium podagrariaGround-elderflowering plantAesculus hippocastanumHorse-chestnutflowering plantAgrostis capillarisCommon Bentflowering plantAgrostis stoloniferaCreeping Bentflowering plantAjuga reptansBugleflowering plantAlliaria petiolataGarlic Mustard	flowering plant	Adoxa moschatellina	Moschatel
flowering plantAesculus hippocastanumHorse-chestnutflowering plantAgrostis capillarisCommon Bentflowering plantAgrostis stoloniferaCreeping Bentflowering plantAjuga reptansBugleflowering plantAlliaria petiolataGarlic Mustard	flowering plant	Aegopodium podagraria	Ground-elder
flowering plantAgrostis capillarisCommon Bentflowering plantAgrostis stoloniferaCreeping Bentflowering plantAjuga reptansBugleflowering plantAlliaria petiolataGarlic Mustard	flowering plant	Aesculus hippocastanum	Horse-chestnut
flowering plantAgrostis stoloniferaCreeping Bentflowering plantAjuga reptansBugleflowering plantAlliaria petiolataGarlic Mustard	flowering plant	Agrostis capillaris	Common Bent
flowering plantAjuga reptansBugleflowering plantAlliaria petiolataGarlic Mustard	flowering plant	Agrostis stolonifera	Creeping Bent
flowering plant Alliaria petiolata Garlic Mustard	flowering plant	Ajuga reptans	Bugle
	flowering plant	Alliaria petiolata	Garlic Mustard

flowering plant	Allium ursinum	Ramsons
flowering plant	Alnus glutinosa	Alder
flowering plant	Alopecurus geniculatus	Marsh Foxtail
flowering plant	Alopecurus pratensis	Meadow Foxtail
flowering plant	Anemone	A Garden Anemone
flowering plant	Anemone nemorosa	Wood Anemone
flowering plant	Anthriscus sylvestris	Cow Parsley
flowering plant	Aquilegia	A garden Columbine
flowering plant	Arabidopsis thaliana	Thale Cress
flowering plant	Arctium minus	Lesser Burdock
flowering plant	Arrhenatherum elatius	False Oat-grass
flowering plant	Arum italicum subsp. italicum	Italian Lords-and-Ladies
flowering plant	Arum maculatum	Lords-and-Ladies
flowering plant	Aucuba japonica	Spotted-laurel
flowering plant	Bellis perennis	Daisy
flowering plant	Betonica officinalis	Betony
flowering plant	Betula pendula	Silver Birch
flowering plant	Brachypodium sylvaticum	Wood False-brome
flowering plant	Bromus hordeaceus	Common Soft-brome
flowering plant	Bromus sterilis	Barren Brome
flowering plant	Bryonia dioica	White Bryony
flowering plant	Buddleia davidii	Butterfly Bush
flowering plant	Caltha palustris	Marsh-marigold
flowering plant	Calystegia	False-Bindweed
flowering plant	Capsella bursa-pastoris	Shepherd's-purse
flowering plant	Cardamine amara	Large Bitter-cress
flowering plant	Cardamine flexuosa	Wavy Bitter-cress
flowering plant	Cardamine hirsuta	Hairy Bitter-cress
flowering plant	Cardamine pratensis	Cuckooflower
flowering plant	Carex	Sedge sp.
flowering plant	Carex otrubae	False Fox-sedge
flowering plant	Carex pendula	Pendulous Sedge
flowering plant	Carex remota	Remote Sedge
flowering plant	Centaurea nigra sens. lat.	Common Knapweed
flowering plant	Cerastium fontanum	Common Mouse-ear
flowering plant	Chamerion angustifolium	Rosebay Willowherb
flowering plant	Chrysosplenium oppositifolium	Opposite-leaved Golden-saxifrage
flowering plant	Circaea lutetiana	Enchanter's-nightshade
flowering plant	Cirsium arvense	Creeping Thistle
flowering plant	Cirsium palustre	Marsh Thistle
flowering plant	Cirsium vulgare	Spear Thistle
flowering plant	Cornus sanguinea	Dogwood
flowering plant	Corylus avellana	Hazel
flowering plant	Cotoneaster	Cotoneaster
flowering plant	Crataegus monogyna	Hawthorn
flowering plant	Crocus	A garden Crocus
flowering plant	Cynosurus cristatus	Crested Dog's-tail
flowering plant	Dactylis glomerata	Cock's-foot
		•

<u></u>		
flowering plant	Dactylorhiza fuchsii	Common Spotted-orchid
flowering plant	Dactylorhiza praetermissa	Southern Marsh-orchid
flowering plant	Dispacus fullonum	Wild Teasel
flowering plant	Epilobium ciliatum	American Willowherb
flowering plant	Epilobium hirsutum	Great Willowherb
flowering plant	Erophila verna	Common Whitlowgrass
flowering plant	Euphorbia peplus	Petty Spurge
flowering plant	Fagus sylvatica	Beech
flowering plant	Fallopia japonica	Japanese Knotweed
flowering plant	Festuca rubra agg.	Red Fescue
flowering plant	Ficaria verna	Lesser Celandine
flowering plant	Filipendula ulmaria	Meadowsweet
flowering plant	Frangula alnus	Alder Buckthorn
flowering plant	Fraxinus excelsior	Ash
flowering plant	Galanthus nivalis	Snowdrop
flowering plant	Galium aparine	Cleavers
flowering plant	Galium palustre	Marsh Bedstraw
flowering plant	Galium verum	Lady's Bedstraw
flowering plant	Geranium molle	Dove's-foot Crane's-bill
flowering plant	Geranium robertianum	Herb-Robert
flowering plant	Geum urbanum	Wood Avens
flowering plant	Glechoma hederacea	Ground-ivy
flowering plant	Hedera helix	lvy
flowering plant	Hedera helix	Variegated Ivy
flowering plant	Helleborus	A Purple Hellebore
flowering plant	Helleborus foetidus	Stinking Hellebore
flowering plant	Heracleum sphondylium	Hogweed
flowering plant	Holcus lanatus	Yorkshire-fog
flowering plant	Hyacinthoides non-scripta	Bluebell
	Hyacinthoides non-scripta x	
flowering plant	hispanica = H. x massartiana	Hybrid Bluebell
flowering plant	Hypericum androsaemum	Tutsan
flowering plant	Hypericum perforatum	Perforate St John's-wort
flowering plant	Hypochaeris radicata	Cat's-ear
flowering plant	llex aquifolium	Holly
flowering plant	Impatiens glandulifera	Himalayan Balsam
flowering plant	Iris foetidissima	Stinking Iris
flowering plant	Iris pseudacorus	Yellow Iris
flowering plant	Jacobaea vulgaris	Common Ragwort
flowering plant	Juglans	Walnut sp.
flowering plant	Juncus	Rush sp.
flowering plant	Juncus bufonius	Toad Rush
flowering plant	Juncus effusus	Soft Rush
flowering plant	Knautia arvensis	Field Scabious
	Lamiastrum galeobdolon subsp.	
flowering plant	argentatum	Variegated Yellow Archangel
flowering plant	Lamium album	White Dead-nettle
flowering plant	Lamium purpureum	Red Dead-nettle

flowering plantLathyrus pratensisMeadow Vetchlingflowering plantLeucanthemum vulgareOxeye Daisyflowering plantLeycesteria formosaHimalayan Honeysuckleflowering plantLigustrumPrivet sp.flowering plantLolium perennePerennial Rye-grassflowering plantLonicera henryiHenry's Honeysuckleflowering plantLonicera periclymenumHoneysuckleflowering plantLotus corniculatusCommon Bird's-foot-trefoilflowering plantLuzula campestrisField Wood-rushflowering plantMahonia aquifoliumOregon-grapeflowering plantMatricaria discoideaPineappleweedflowering plantMedicago lupulinaBlack Medickflowering plantMentha aquaticaWater Mintflowering plantMentha aquaticaWater Mintflowering plantMentha aquaticaWood Forget-me-notflowering plantMilium effusumWood Forget-me-notflowering plantMyosotisForget-Me-Notflowering plantMyosotisForget-me-notflowering plantMyosotisForget-me-notflowering plantMyosotisForget-me-notflowering plantNarcissusDaffodilsflowering plantNarcissusDaffodilflowering plantNarcissus pseudonarcissus subsp.flowering plantNarcissusDaffodilflowering plantNarcissus preudonarcissus subsp.flowering plantOzalis acetosellaWood-sorrel<
flowering plantLeucanthemum vulgareOxeye Daisyflowering plantLeycesteria formosaHimalayan Honeysuckleflowering plantLigustrumPrivet sp.flowering plantLolium perennePerennial Rye-grassflowering plantLonicera henryiHenry's Honeysuckleflowering plantLonicera periclymenumHoneysuckleflowering plantLotus corniculatusCommon Bird's-foot-trefoilflowering plantLuzula campestrisField Wood-rushflowering plantMahonia aquifoliumOregon-grapeflowering plantMalvaMallow sp.flowering plantMatricaria discoideaPineappleweedflowering plantMetha aquaticaWater Mintflowering plantMescariGarden Grape Hyacinthflowering plantMuscariGarden Grape Hyacinthflowering plantMyosotisForget-Me-Notflowering plantMyosotis sylvaticaWood Forget-me-notflowering plantNarcissus pseudonarcissus subsp.Daffodilsflowering plantNarcissus pseudonarcissus subsp.Daffodilflowering plantOxalis acetosellaWood-sorrelflowering plantOxalis acetosellaWood-sorrelflowering plantPapaverAn Orange Popy; A Yellow Poppyflowe
flowering plantLeycesteria formosaHimalayan Honeysuckleflowering plantLigustrumPrivet sp.flowering plantLolium perennePerennial Rye-grassflowering plantLonicera henryiHenry's Honeysuckleflowering plantLonicera periclymenumHoneysuckleflowering plantLotus corniculatusCommon Bird's-foot-trefoilflowering plantLuzula campestrisField Wood-rushflowering plantMahonia aquifoliumOregon-grapeflowering plantMalvaMallow sp.flowering plantMatricaria discoideaPineappleweedflowering plantMetha aquaticaWater Mintflowering plantMentha aquaticaWater Mintflowering plantMentha aquaticaWater Mintflowering plantMestrifoliataBogbeanflowering plantMuscariGarden Grape Hyacinthflowering plantMyosotisForget-Me-Notflowering plantMyosotis sylvaticaWood Forget-me-notflowering plantNarcissus pseudonarcissus subsp.pseudonarcissus subsp.flowering plantNarcissus pseudonarcissus subsp.Daffodilflowering plantOzalis acetosellaWood-sorrelflowering plantPapaverAn Orange Popy; A Yellow Poppyflowering plantPentaglottis sempervirensGreen Alkanetflowering plantPentaglottis sempervirensGreen Alkanet
flowering plantLigustrumPrivet sp.flowering plantLolium perennePerennial Rye-grassflowering plantLonicera henryiHenry's Honeysuckleflowering plantLotus corniculatusCommon Bird's-foot-trefoilflowering plantLotus corniculatusCommon Bird's-foot-trefoilflowering plantLuzula campestrisField Wood-rushflowering plantMahonia aquifoliumOregon-grapeflowering plantMalvaMallow sp.flowering plantMatricaria discoideaPineappleweedflowering plantMedicago lupulinaBlack Medickflowering plantMentha aquaticaWater Mintflowering plantMentha aquaticaWater Mintflowering plantMentha aquaticaWood Milletflowering plantMuscariGarden Grape Hyacinthflowering plantMyosotis sylvaticaWood Forget-me-notflowering plantNarcissusDaffodilsflowering plantNarcissusDaffodilflowering plantNarcissusDaffodilflowering plantNarcissusDaffodilflowering plantNarcissusDaffodilflowering plantNarcissusDaffodilflowering plantPapaverAn Orange Poppy; A Yellow Poppyflowering plantPentaglottis sempervirensGreen Alkanetflowering plantPentaglottis sempervirensGreen Alkanet
flowering plantLolium perennePerennial Rye-grassflowering plantLonicera henryiHenry's Honeysuckleflowering plantLotus corniculatusCommon Bird's-foot-trefoilflowering plantLotus corniculatusCommon Bird's-foot-trefoilflowering plantLuzula campestrisField Wood-rushflowering plantMahonia aquifoliumOregon-grapeflowering plantMalvaMallow sp.flowering plantMatricaria discoideaPineappleweedflowering plantMedicago lupulinaBlack Medickflowering plantMentha aquaticaWater Mintflowering plantMentha aquaticaBogbeanflowering plantMilium effusumWood Milletflowering plantMyosotisForget-Me-Notflowering plantMyosotis sylvaticaWood Forget-me-notflowering plantNarcissusDaffodilsflowering plantNarcissusDaffodilflowering plantOxalis acetosellaWood-sorrelflowering plantOxalis acetosellaWood-sorrelflowering plantPapaverAn Orange Poppy; A Yellow Poppyflowering plantPentaglottis sempervirensGreen Alkanetflowering plantPentaglottis sempervirensGreen Alkanet
flowering plantLonicera henryiHenry's Honeysuckleflowering plantLonicera periclymenumHoneysuckleflowering plantLotus corniculatusCommon Bird's-foot-trefoilflowering plantLuzula campestrisField Wood-rushflowering plantMahonia aquifoliumOregon-grapeflowering plantMalvaMallow sp.flowering plantMatricaria discoideaPineappleweedflowering plantMedicago lupulinaBlack Medickflowering plantMentha aquaticaWater Mintflowering plantMentha aquaticaWater Mintflowering plantMentha aquaticaBogbeanflowering plantMilium effusumWood Milletflowering plantMyosotisForget-Me-Notflowering plantMyosotis sylvaticaWood Forget-me-notflowering plantNarcissusDaffodilsflowering plantNarcissusDaffodilflowering plantOxalis acetosellaWood-sorrelflowering plantOxalis acetosellaWood-sorrelflowering plantPapaverAn Orange Poppy; A Yellow Poppyflowering plantPentaglottis sempervirensGreen Alkanetflowering plantPentaglottis sempervirensGreen Alkanet
flowering plantLonicera periclymenumHoneysuckleflowering plantLotus corniculatusCommon Bird's-foot-trefoilflowering plantLuzula campestrisField Wood-rushflowering plantMahonia aquifoliumOregon-grapeflowering plantMalvaMallow sp.flowering plantMatricaria discoideaPineappleweedflowering plantMedicago lupulinaBlack Medickflowering plantMentha aquaticaWater Mintflowering plantMentha aquaticaWater Mintflowering plantMentha aquaticaBogbeanflowering plantMilium effusumWood Milletflowering plantMuscariGarden Grape Hyacinthflowering plantMyosotisForget-Me-Notflowering plantMyosotis sylvaticaWood Forget-me-notflowering plantNarcissusDaffodilsflowering plantNarcissusDaffodilflowering plantOxalis acetosellaWood-sorrelflowering plantOxalis acetosellaWood-sorrelflowering plantPapaverAn Orange Poppy; A Yellow Poppyflowering plantPentaglottis sempervirensGreen Alkanetflowering plantPentaglottis sempervirensGreen Alkanet
flowering plantLotus corniculatusCommon Bird's-foot-trefoilflowering plantLuzula campestrisField Wood-rushflowering plantMahonia aquifoliumOregon-grapeflowering plantMalvaMallow sp.flowering plantMatricaria discoideaPineappleweedflowering plantMedicago lupulinaBlack Medickflowering plantMentha aquaticaWater Mintflowering plantMentha aquaticaWater Mintflowering plantMentha aquaticaBogbeanflowering plantMilium effusumWood Milletflowering plantMuscariGarden Grape Hyacinthflowering plantMyosotisForget-Me-Notflowering plantMyosotis sylvaticaWood Forget-me-notflowering plantNarcissus pseudonarcissus subsp.pafodilsflowering plantOxalis acetosellaWood-sorrelflowering plantOxalis acetosellaWood-sorrelflowering plantPapaverAn Orange Poppy; A Yellow Poppyflowering plantPentaglottis sempervirensGreen Alkanetflowering plantPentaglottis sempervirensGreen Alkanet
flowering plantLuzula campestrisField Wood-rushflowering plantMahonia aquifoliumOregon-grapeflowering plantMalvaMallow sp.flowering plantMatricaria discoideaPineappleweedflowering plantMedicago lupulinaBlack Medickflowering plantMentha aquaticaWater Mintflowering plantMenyanthes trifoliataBogbeanflowering plantMilium effusumWood Milletflowering plantMuscariGarden Grape Hyacinthflowering plantMyosotisForget-Me-Notflowering plantMyosotis sylvaticaWood Forget-me-notflowering plantNarcissusDaffodilsflowering plantNarcissus pseudonarcissus subsp.pseudonarcissus subsp.flowering plantOxalis acetosellaWood-sorrelflowering plantPapaverAn Orange Poppy; A Yellow Poppyflowering plantPentaglottis sempervirensGreen Alkanetflowering plantPentaglottis sempervirensGreen Alkanet
flowering plantMahonia aquifoliumOregon-grapeflowering plantMalvaMallow sp.flowering plantMatricaria discoideaPineappleweedflowering plantMedicago lupulinaBlack Medickflowering plantMentha aquaticaWater Mintflowering plantMentha aquaticaWater Mintflowering plantMenyanthes trifoliataBogbeanflowering plantMilium effusumWood Milletflowering plantMuscariGarden Grape Hyacinthflowering plantMyosotisForget-Me-Notflowering plantMyosotis sylvaticaWood Forget-me-notflowering plantNarcissusDaffodilsflowering plantNarcissus pseudonarcissus subsp. pseudonarcissusDaffodilflowering plantOxalis acetosellaWood-sorrelflowering plantPapaverAn Orange Poppy; A Yellow Poppyflowering plantPentaglottis sempervirensGreen Alkanetflowering plantPentaglottis sempervirensTimothy
flowering plantMalvaMallow sp.flowering plantMatricaria discoideaPineappleweedflowering plantMedicago lupulinaBlack Medickflowering plantMentha aquaticaWater Mintflowering plantMenyanthes trifoliataBogbeanflowering plantMilium effusumWood Milletflowering plantMuscariGarden Grape Hyacinthflowering plantMyosotisForget-Me-Notflowering plantMyosotis sylvaticaWood Forget-me-notflowering plantNarcissusDaffodilsflowering plantNarcissus pseudonarcissus subsp.flowering plantOxalis acetosellaWood-sorrelflowering plantPapaverAn Orange Poppy; A Yellow Poppyflowering plantPentaglottis sempervirensGreen Alkanetflowering plantPentaglottis sempervirensTimothy
flowering plantMatricaria discoideaPineappleweedflowering plantMedicago lupulinaBlack Medickflowering plantMentha aquaticaWater Mintflowering plantMenyanthes trifoliataBogbeanflowering plantMilium effusumWood Milletflowering plantMuscariGarden Grape Hyacinthflowering plantMyosotisForget-Me-Notflowering plantMyosotis sylvaticaWood Forget-me-notflowering plantNarcissusDaffodilsflowering plantNarcissus pseudonarcissus subsp.pseudonarcissusflowering plantOxalis acetosellaWood-sorrelflowering plantPapaverAn Orange Poppy; A Yellow Poppyflowering plantPentaglottis sempervirensGreen Alkanetflowering plantPentaglottis sempervirensGreen Alkanet
flowering plantMedicago lupulinaBlack Medickflowering plantMentha aquaticaWater Mintflowering plantMenyanthes trifoliataBogbeanflowering plantMilium effusumWood Milletflowering plantMuscariGarden Grape Hyacinthflowering plantMyosotisForget-Me-Notflowering plantMyosotis sylvaticaWood Forget-me-notflowering plantNarcissusDaffodilsflowering plantNarcissus pseudonarcissus subsp.pseudonarcissusflowering plantOxalis acetosellaWood-sorrelflowering plantPapaverAn Orange Poppy; A Yellow Poppyflowering plantPentaglottis sempervirensGreen Alkanetflowering plantPentaglottis sempervirensTimothy
flowering plantMentha aquaticaWater Mintflowering plantMenyanthes trifoliataBogbeanflowering plantMilium effusumWood Milletflowering plantMuscariGarden Grape Hyacinthflowering plantMyosotisForget-Me-Notflowering plantMyosotis sylvaticaWood Forget-me-notflowering plantNarcissusDaffodilsflowering plantNarcissus pseudonarcissus subsp.flowering plantOxalis acetosellaWood-sorrelflowering plantPapaverAn Orange Poppy; A Yellow Poppyflowering plantPentaglottis sempervirensGreen Alkanetflowering plantPentaglottis sempervirensTimothy
flowering plantMenyanthes trifoliataBogbeanflowering plantMilium effusumWood Milletflowering plantMuscariGarden Grape Hyacinthflowering plantMyosotisForget-Me-Notflowering plantMyosotis sylvaticaWood Forget-me-notflowering plantNarcissusDaffodilsflowering plantNarcissus pseudonarcissus subsp.Daffodilflowering plantOxalis acetosellaWood-sorrelflowering plantPapaverAn Orange Poppy; A Yellow Poppyflowering plantPentaglottis sempervirensGreen Alkanetflowering plantPhleum pratenseTimothy
flowering plantMilium effusumWood Milletflowering plantMuscariGarden Grape Hyacinthflowering plantMyosotisForget-Me-Notflowering plantMyosotis sylvaticaWood Forget-me-notflowering plantNarcissusDaffodilsmarcissusDaffodilsDaffodilflowering plantOxalis acetosellaWood-sorrelflowering plantPapaverAn Orange Poppy; A Yellow Poppyflowering plantPentaglottis sempervirensGreen Alkanetflowering plantPentaglottis sempervirensTimothy
flowering plantMuscariGarden Grape Hyacinthflowering plantMyosotisForget-Me-Notflowering plantMyosotis sylvaticaWood Forget-me-notflowering plantNarcissusDaffodilsflowering plantNarcissus pseudonarcissus subsp.flowering plantpseudonarcissusflowering plantOxalis acetosellaWood-sorrelflowering plantPapaverAn Orange Poppy; A Yellow Poppyflowering plantPentaglottis sempervirensflowering plantPhleum pratenseflowering plantPhleum pratense
flowering plantMyosotisForget-Me-Notflowering plantMyosotis sylvaticaWood Forget-me-notflowering plantNarcissusDaffodilsNarcissus pseudonarcissus subsp.pseudonarcissus subsp.flowering plantOxalis acetosellaWood-sorrelflowering plantPapaverAn Orange Poppy; A Yellow Poppyflowering plantPentaglottis sempervirensGreen Alkanetflowering plantPhleum pratenseTimothy
flowering plantMyosotis sylvaticaWood Forget-me-notflowering plantNarcissusDaffodilsflowering plantNarcissus pseudonarcissus subsp. pseudonarcissusDaffodilflowering plantOxalis acetosellaWood-sorrelflowering plantPapaverAn Orange Poppy; A Yellow Poppyflowering plantPentaglottis sempervirensGreen Alkanetflowering plantPhleum pratenseTimothy
flowering plantNarcissusDaffodilsflowering plantNarcissus pseudonarcissus subsp. pseudonarcissusDaffodilflowering plantOxalis acetosellaDaffodilflowering plantPapaverAn Orange Poppy; A Yellow Poppyflowering plantPentaglottis sempervirensGreen Alkanetflowering plantPhleum pratenseTimothy
Narcissus pseudonarcissus subsp.flowering plantpseudonarcissusflowering plantOxalis acetosellaflowering plantPapaverAn Orange Poppy; A Yellow Poppyflowering plantPentaglottis sempervirensflowering plantPhleum pratenseTimothy
flowering plantpseudonarcissusDaffodilflowering plantOxalis acetosellaWood-sorrelflowering plantPapaverAn Orange Poppy; A Yellow Poppyflowering plantPentaglottis sempervirensGreen Alkanetflowering plantPhleum pratenseTimothy
flowering plantOxalis acetosellaWood-sorrelflowering plantPapaverAn Orange Poppy; A Yellow Poppyflowering plantPentaglottis sempervirensGreen Alkanetflowering plantPhleum pratenseTimothy
flowering plantPapaverAn Orange Poppy; A Yellow Poppyflowering plantPentaglottis sempervirensGreen Alkanetflowering plantPhleum pratenseTimothy
flowering plantPentaglottis sempervirensGreen Alkanetflowering plantPhleum pratenseTimothy
flowering plant Phleum pratense Timothy
neuri pracese initiati pracese
flowering plant Pilosella aurantiaca Fox-and-cubs
flowering plant Plantago lanceolata Ribwort Plantain
flowering plant Plantago major Greater Plantain
flowering plant Poa annua Annual Meadow-grass
flowering plant Poa pratensis Smooth Meadow-Grass
flowering plant Poa trivialis Rough Meadow-grass
flowering plant Populus nigra Native Black Poplar (female)
flowering plant Populus tremula Aspen
flowering plant Potentilla reptans Creeping Cinquefoil
flowering plant Primula veris Cowslip
flowering plant Primula vulgaris Primrose
flowering plant Prunella vulgaris Selfheal
flowering plant Prunus avium Wild Cherry
flowering plant Prunus cerasifera Cherry Plum
flowering plant Prunus laurocerasus Cherry Laurel
flowering plant Prunus padus Bird Cherry
flowering plant Prunus spinosa Blackthorn
flowering plant <i>Pyracantha</i> Firethorn
flowering plant <i>Pyrus communis</i> Pear
flowering plant Quercus robur Pedunculate Oak

flowering plant	Ranunculus repens	Creeping Buttercup
flowering plant	Rhinanthus minor	Yellow-rattle
flowering plant	Ribes	Currant
flowering plant	Rosa canina agg.	Dog Rose
flowering plant	Rubus fruticosus agg.	Blackberry/Bramble
flowering plant	Rubus idaeus	Raspberry
flowering plant	Rumex acetosa	Common Sorrel
flowering plant	Rumex obtusifolius	Broad-leaved Dock
flowering plant	Salix	Willow sp.
flowering plant	Sambucus nigra	Elder
flowering plant	Scilla	A garden Squill
flowering plant	Scrophularia nodosa	Common Figwort
flowering plant	Senecio vulgaris	Groundsel
flowering plant	Silene dioica	Red Campion
flowering plant	Silene flos-cuculi	Ragged Robin
flowering plant	Solanum dulcamara	Bittersweet
flowering plant	Sonchus oleraceus	Smooth Sow-thistle
flowering plant	Sorbus aucuparia	Rowan
flowering plant	Stachys palustris	Marsh Woundwort
flowering plant	Stachys sylvatica	Hedge Woundwort
flowering plant	Stellaria graminea	Lesser Stitchwort
flowering plant	Stellaria media agg.	Chickweed
flowering plant	Succisa pratensis	Devil's-bit Scabious
flowering plant	Symphoricarpos albus	Snowberry
flowering plant	Taraxacum officinale agg.	Dandelion
flowering plant	Tellima grandiflora	Fringecups
flowering plant	Trifolium dubium	Lesser Trefoil
flowering plant	Trifolium pratense	Red Clover
flowering plant	Trifolium repens	White Clover
flowering plant	Tussilago farfara	Colt's-foot
flowering plant	Ulmus procera	English Elm
flowering plant	Urtica dioica	Common Nettle
flowering plant	Veronica arvensis	Wall Speedwell
flowering plant	Veronica beccabunga	Brooklime
flowering plant	Veronica chamaedrys	Germander Speedwell
flowering plant	Veronica persica	Common Field-speedwell
flowering plant	Veronica sublobata	Pink Ivy-leaved Speedwell
flowering plant	Viburnum opulus	Guelder-rose
flowering plant	Vicia cracca	Tufted Vetch
flowering plant	Vicia sativa	Common Vetch
flowering plant	Vicia tetrasperma	Smooth Tare
flowering plant	Viola reichenbachiana/riviniana	Early/Common Dog-violet
horsetail	Equisetum arvense	Field Horsetail
insect – alderfly (Megaloptera)	Sialidae	An Alderfly
Insect - hymenopteran	Anthophila	A Solitary bee
insect - hymenopteran	Bombus hypnorum	Tree Bumblebee
insect - hymenopteran	Formicidae	An Ant
insect – hymenopteran	Vespula sp.	A Wasp
,	1 1	

insect - beetle (Coleoptera)	Calvia quattuordecimguttata	Cream Spot Ladybird
insect - beetle (Coleoptera)	Coccinella septempunctata	7-spot Ladybird
insect - beetle (Coleoptera)	Dytiscidae	Diving Beetle (larva)
insect - beetle (Coleoptera)	Harmonia axyridis	Harlequin Ladybird
insect - beetle (Coleoptera)	Oedemera nobilis	Thick-legged flower beetle
insect - beetle (Coleoptera)	Rhagonycha fulva	Common Red Solider Beetle
insect – bugs (Hemiptera)	Corixidae	Lesser Water Boatman
insect - butterfly	Aglais io	Peacock
insect - butterfly	Aglais urticae	Small Tortoiseshell
insect - butterfly	Anthocharis cardamines	Orange-tip
insect - butterfly	Gonepteryx rhamni	Brimstone
insect - butterfly	Lycaena phlaeas	Small Copper
insect – butterfly	Maniola jurtina	Meadow Brown
insect - butterfly	Pararge aegeria	Speckled Wood
insect - butterfly	Pieris	Whites
insect - butterfly	Pieris brassicae	Large White
insect - butterfly	Polygonia c-album	Comma
insect - butterfly	Pyronia tithonus	Gatekeeper
insect - butterfly	Vanessa atalanta	Red Admiral
insect - caddis fly (Trichoptera)	Trichoptera	Cased caddis fly (larva)
insect - dragonfly (Odonata)	Zygoptera	A Blue Damselfly
insect - dragonfly (Odonata)	Zygoptera	A Dragonfly
insect – mayfly	Ephemerelidae	Blue-winged Olive Mayfly (larva)
insect - true fly (Diptera)	Bombylius major	Dark-edged Bee-fly
insect - true fly (Diptera)	Eristalis	Drone fly
insect - true fly (Diptera)	Tipulidae	A Cranefly
insect - true fly (Diptera)	Volucella pellucens	Pellucid Hoverfly
mollusc	Planorbidae	Ram's-horn Snail
mollusc	Pisidium	Indet. Pea Mussel
moss	Bryophyte	Mosses
terrestrial mammal	Rattus norvegicus	Brown Rat
terrestrial mammal	Sciurus carolinensis	Eastern Grey Squirrel
terrestrial mammal	Talpa europaea	European Mole

Appendix 1 – Management work, Bird box locations and Visitor Survey



Management work carried out in October 2020 and April 2021 – March 2022

25 individual volunteers - incl 4 children 8 volunteers new to the Wildlife Trust incl 4 children
Locations of bird boxes

Wooden bird boxes installed 26/2/2022 in woodland from Blake Street end of site

Letter on bottom	Grid reference	What3words	
of box			
А	SK10366 00761	only.zones.sorry	
В	SK10365 00771	dream.crate.tinsel	
С	SK10368 00774	steps.candle.ruins	
D	SK10349 00764	until.email.payer	
E	SK10340 00759	muddy.plays.actors	
F	SK10332 00744	major.posed.blows	
G	SK10335 00736	dinner.twigs.puppy	
H SK10312 00715		drank.clocks.spit	
(no I)			
J	SK10325 00695	funded.soda.curry	
К	SK10348 00636	little.spine.list	
L	SK10366 00620 latest.sumr		
Μ	SK10365 00622	hungry.scrap.rinse	
N	SK10367 00613	major.joke.gasp	

Visitor survey results

	Total no. of visits	No. of Hours	Visits per hour	Visits per 12 hour day	Days per year	Total visits per year
Weekdays	97	4	24.25	291	261	75,951
Weekends	102	4	25.5	306	104	31,824

List of surveys carried out for the production of this plan

- Phase 1 Habitat survey (as per JNCC methodology), with plant species lists, plus recording of incidental species- for details of methodology see https://jncc.gov.uk/our-work/terrestrial-habitat-classification-schemes/#phase-1-habitat-classification and https://data.jncc.gov.uk/data/9578d07b-e018-4c66-9c1b-47110f14df2a/Handbook-Phase1-HabitatSurvey-Revised-2016.pdf
- Winter and Summer bird walkover surveys
- MORPH survey for details of methodology see https://modularriversurvey.org/citizen-science-help/
- Freshwater Invertebrate Network survey contact EcoRecord or see survey sheets for details

	April	June	August	October	December	February
WORK PARTIES	 Weeding of garden Removal of Variegated Yellow Archangel from patch along Sandhurst Road. Collect Moschatel propagules (into pots) Removal of tree guards from whole site, especially garden and hedge along Blake Street. Check on newly planted trees Litter pick Survey and monitoring: Plants in Flower survey FIN survey Bird box survey 	 Weeding of garden and any other preparatory work for 'in Bloom' visit Cut back any vegetation growing over paths Check on newly planted trees, hand weed if necessary Check on re-growth of snowberry Check for Himalayan Balsam (especially at Blake Street end) and uproot if found Collect Yellow Rattle seed and re-sow (depending on timing) Check JKW Check VYA on Sandhurst Road and remove any re- growth Litter pick 	 Weeding of garden Cut back any vegetation growing over paths Check on newly planted trees, hand weed if necessary Check on re-growth of snowberry and remove and re-growth Check JKW Check VYA on Sandhurst Road and remove any re-growth Litter pick Survey and monitoring: Plants in Flower survey FIN survey Bird box survey Butterfly survey 	 Weeding of garden Removal of Variegated Yellow Archangel from patch along Sandhurst Road and patches along watercourse in wet woodland Ensure view from benches is clear Take cuttings from female Black Poplar Dig up Dock and Bramble from meadow areas, as necessary Litter pick Survey and monitoring: Plants in Flower survey FIN survey 	 Pruning in garden Removal of Variegated Yellow Archangel from patch along Sandhurst Road and patches along watercourse in wet woodland Removal of Laurel – wet woodland and around pool. Thinning of Ash woodland block on Blake Street Litter pick Survey and monitoring: Plants in Flower survey 	 Removal of Variegated Yellow Archangel from patch along Sandhurst Road and patches along watercourse in wet woodland Removal of Laurel – wet woodland and around pool. Thinning of Ash woodland block on Blake Street Litter pick Survey and monitoring: Plants in Flower survey
		Survey and monitoring:				

Appendix 2 – First year work programme NB activities may need to be amended due to unforeseeable circumstances, weather etc.

O T H E R	April-September - Weeding of garden - Check JKW and report to Committee if seen. - Check stream visually for pollution and report if seen. - Litter pick - Plants in Flower survey - Bird box survey	 Plants in Flower survey Meadow survey (DAFOR plus quadrats) FIN survey Bird box survey 		October-March - Check stream visually for pollution and report to Environment Agency Pollution line if seen. - Litter pick - Plants in Flower survey	
	- Butterfly survey				
E V E N T S	13 th May Bat and Moth night – Brumbats	TBC: Committee meetings and AGM	26 th August Bat and Moth night - Brumbats		

Record of Management Actions

What follows is a space to record the management actions, location and timing (month, year) to aid with the completion of the actions in this management plan and to help with the production of the next.

Action	Location	Timing	Who	Notes