APPENDIX D – ECOLOGICAL APPRAISAL 2015



NHS property Services

Northwood and Pinner Hospital

Extended Phase 1 Habitat Survey

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100 St John Street, London, EC1M 4EH

Tel: 020 7250 7500

Email: ecology@wyg.com



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| Prepared by: | 11. | Tim Bradford CEnv MCIEEM |
| Trepured by: | M | Principal Ecologist |
| Checked By: | | David West MCIEEM |
| Checked by. | i augo sur m | Principal Ecologist |
| Verified By: | Cathein fluter | Catherine Hunter MCIEEM |
| Fernied By: | Durine O Inco | Principal Ecologist |

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Executive Summary

Site Description and Scope of Works

Extended Phase 1 Habitat Survey of Northwood and Pinner Hospital, north-west London HA6 1DE. The centre of the site is located at grid reference TQ 1000 9066. The site consists of a disused hospital along with a car park, landscape planting, and a small woodland. The proposed development is not yet finalised, however the site will be cleared, including demolition of the buildings, and removal of most/all of the existing habitat

| Potential Constraints | Yes | No |
|---|---------------|--------------|
| Bats | | |
| Has the site been assessed for bats? | ✓ | |
| Are there any structures or trees on site which have the potential to support roosting bats? (see section 4.3.3) | ~ | |
| Breeding Birds including Barn Owls | | |
| Has the site been assessed for breeding birds including barn owls? | ✓ | |
| Will areas of hedgerow, scrub, woodland, trees or other features likely to be used by nesting birds be affected by the proposal? (see section 4.3.5) | ~ | |
| Badgers | | |
| Has the site been assessed for badgers? | \checkmark | |
| Is there any evidence of badgers on or near the application site including setts, foraging or commuting? (see section 4.3.5) | | ~ |
| Great crested newts | | |
| Has the site been assessed for great crested newts? | ✓ | |
| Is there suitable habitat for great crested newts on, or close to the application site? (see section 4.3.1) | | ~ |
| Reptiles | | |
| Has the site been assessed for reptiles? | \checkmark | |
| Is there suitable habitat on the site for reptiles? (see section 4.3.2) | ✓ | |
| Other features of nature conservation interest | | |
| Does the application site support Habitats of Principal Importance or Local Biodiversity Action Plan Priority Habitats? | | ~ |
| Does the application site support Species of Principal Importance or Local Biodiversity Action Plan Species? | ~ | |
| Likely to suppor | rt bats and h | ouse sparrow |
| Have details of biodiversity enhancements been included with the application? | \checkmark | |
| Recommendations | Yes | No |
| Are further surveys recommended to inform the ecological impact assessment? | \checkmark | |
| Bat emergence and return surveys; Follow an appropriate strategy to avoid impacts on reptiles; and Nesting bird survey (dependant on the season). | | |
| Is mitigation (including avoidance/compensation) and enhancement recommended? | ~ | |
| Potentially if bats are found to be roosting in the building or trees on site; Habitat creation for reptiles; Treatment of invasive plant species before removal (if necessary); and Installation of bird boxes. | | |



1.0 Introduction

1.1 Background

WYG were commissioned by NHS Property Services Ltd in August 2015 to carry out an Extended Phase 1 habitat survey of Northwood and Pinner Hospital, Pinner Road, Northwood, HA6 1DE ('the site').

The survey and report were completed by Tim Bradford, Principal Ecologist CEnv MCIEEM.

1.2 Site Location

The site consists of the hospital and surrounding grounds including access roads, car parks and gardens. The site centre is at Ordnance Survey grid reference TQ 1000 9066. The area immediately surrounding the site is urban, i.e. housing. However it is close to the edge of greater London and less than 200 m to the north and south are large open green spaces.

1.3 Development Proposals

Details of the proposed development are not yet available. However it will involve demolition of the buildings and clearing most if not all of the habitats remaining. The new development is likely to be mostly residential.

1.4 Survey & Reporting Objectives

The ecological investigations undertaken by WYG included the following objectives:

- A desk study to obtain existing information on statutory and non-statutory sites of nature conservation interest and records of protected/notable species within the site and its environs;
- An Extended Phase 1 habitat survey involving a walkover of the site to record habitat types and dominant vegetation, including any invasive species and a reconnaissance survey for evidence of protected fauna or habitats capable of supporting such species;
- An investigation of the buildings and trees for their potential to support bats, including a survey of external features; and
- An assessment of the potential ecological constraints to the proposed works at the site and recommendations for further survey, avoidance, mitigation and enhancement, where appropriate.



2.0 Planning Policy & Legislation

An overview of planning policy and legislation applying to Northwood and Pinner Hospital is provided below.

2.1 National Planning Policy

The National Planning Policy Framework (NPPF) was adopted in March 2012. Section 11 (outlined in Appendix B) of the NPPF, Conserving and Enhancing the Natural Environment, replaces Planning Policy Statement 9 (PPS9): Biodiversity and Geological Conservation. However, government Circular 06/2005, Biodiversity and Geological Conservation: Statutory Obligations and their Impact within the Planning System, which relates to PPS9 remains valid and is referenced within Paragraph 113 of the NPPF.

ODPM Circular 06/2005 states that the presence of protected species is a material consideration in the planning process. The NPPF also states that '*planning policies should promote the protection of priority species populations linked to national and local targets*'.

Furthermore, central and local government policy now points towards ecological enhancement on development sites. The NPPF considers enhancement in the statement '*The planning system should contribute to and enhance the natural and local environment by protecting and enhancing valued landscapes....and minimising impacts on biodiversity and providing net gains in biodiversity*'.

2.2 Local Planning Policy

Northwood and Pinner Hospital lies within the London Borough of Hillingdon ('the borough') and as such is subject to the London Plan as well as the borough's Unitary Development Plan (UDP) and Local plan.

The London Plan (updated 2015) contains several policies relevant to biodiversity. Of particular note, Policy 7.19 states: *Development Proposals should wherever possible, make a positive contribution to the protection, enhancement, creation and management of biodiversity* and *prioritise assisting in achieving targets in biodiversity action plans (BAPs)*.

Within the borough's UDP (adopted 1998, with policies saved in 2007), Section 4 deals with *Ecology and Nature Conservation.* Within that section, policy EC1 states: *The local planning authority will not permit development which would adversely affect the integrity of Sites of Special Scientific Interest, or be unacceptably detrimental to Sites of Metropolitan or Borough (Grade I) Importance for Nature Conservation, designated Local Nature Reserves and other nature reserves. If development is proposed on or in the near vicinity of such sites, applicants must submit an ecological assessment where considered appropriate by the local planning authority to demonstrate that the proposed development will not have unacceptable ecological effects.*

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Policy EC2 goes on: *The local planning authority will promote nature conservation as a positive land use and will take nature conservation interests into account in considering proposals for development of land*. Finally EC5 states: *In determining planning applications the local planning authority may require certain on-site ecological features to be retained in new developments and seek to enhance the nature conservation and ecological interest of sites or create new habitats.*

The borough's Local Plan Part 1 was adopted in 2012 also makes provision for ecology in its policies. Policy EM7 states ... *Hillingdon's biodiversity and geological conservation will be preserved and enhanced with particular attention given to:*

- The protection and enhancement of populations of protected species as well as priority species and habitats identified within the UK, London and the Hillingdon Biodiversity Action *Plans;* and
- The provision of biodiversity improvements from all development, where feasible.

2.3 Legislation

Specific habitats and species receive legal protection in the UK under various European and domestic legislative provisions, including:

- The Conservation of Habitats and Species Regulations 2010 (as amended);
- The Wildlife and Countryside Act (WCA) 1981 (as amended);
- The Countryside and Rights of Way (CRoW) Act 2000;
- The Natural Environment and Rural Communities (NERC) Act 2006; and
- Wild Mammals (Protection) Act 1996.

Where relevant, this report takes account of the legislative protection afforded to specific habitats and species.

2.4 Biodiversity Action Plans (BAP)

2.4.1 UK Post-2010 Biodiversity Framework

The Environment Departments of all four governments in the UK work together through the Four Countries Biodiversity Group. Together they have agreed, and Ministers have signed, a framework of priorities for UK-level work for the Convention on Biological Diversity. Published on 17 July 2012, the 'UK Post-2010 Biodiversity Framework' covers the period from 2011 to 2020.

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Although the UK Post-2010 Biodiversity Framework does not confer any statutory legal protection, in practice many of the species listed already receive statutory legal protection under UK and / or European legislation. In addition, the majority of Priority national (English) BAP habitats and species are now those listed as Habitats and Species of Principal Importance in England (listed under Section 41 (S41) of the NERC Act 2006). All public bodies have a legal obligation or 'biodiversity duty' under Section 40 of the NERC Act 2006 to conserve biodiversity by having particular regard to those species and habitats listed under S41. For the purpose of this report, habitats and species listed under S41 of the NERC Act are referred to as having superseded the UK BAP.

2.5 Local Biodiversity Action Plan

The site is covered by the London Biodiversity Action Plan (BAP). This includes a Habitat Action Plan for Parks and Urban Greenspaces, as well as listing Built Structures under *Other Important Habitats*. There are Species Action Plans written for bats and house sparrow. BAP habitats and species are not necessarily legally protected, however they are of relevance to, and often referred to in, planning policy (e.g. within Policy 7.19 of the London Plan). Northwood and Pinner Hospital: Extended Phase 1 Habitat Survey



3.0 Methodology

3.1 Desk Study

3.1.1 Local Records Centre

Information was gathered from Greenspace Information for Greater London (GIGL), the ecological records centre covering Northwood and Pinner. This information regarded the presence of non-statutory nature conservation designations and protected and notable species within 2 km of the proposed development site. Only relatively recent records (i.e. from no earlier than 2005) have been included in the assessment unless stated otherwise.

3.1.2 Online Resources

A search for statutory sites designated for their nature conservation value within 2km of the site was made of Natural England's interactive, web-based MAGIC (Multi Agency Geographic Information for the Countryside) database.

This desk study has not included searching for or assessment of tree preservation orders (TPO's), conservation areas or other non-biodiversity based designations.

3.2 Field Surveys

3.2.1 Habitats

The vegetation and habitat types within the site were noted during the walkover survey in accordance with the categories specified for a Phase 1 Vegetation and Habitat Survey (Joint Nature Conservation Committee, 2010). Dominant plant species were recorded for each habitat present.

3.2.2 Protected and Notable Species

The site was inspected for evidence of and its potential to support protected or notable species, especially those listed under the *Conservation of Habitats and Species Regulations 2010* (as amended), the *Wildlife & Countryside Act 1981* (as amended), including those given extra protection under the *Natural Environment and Rural Communities (NERC) Act 2006* and *Countryside & Rights of Way (CRoW) Act 2000*, and listed on the local Biodiversity Action Plans.

The following species were considered:

Great crested newt

The site was appraised for its suitability to support great crested newts. The assessment was based on guidance outlined in the Joint Nature Conservation Committees' published *Herpetofauna Workers'*



Manual (Joint Nature Conservation Committee, 2003) and the *Great Crested Newt Conservation Handbook* (Langton, Beckett & Foster, 2001). The ponds on or within 500 m of the site, connected by suitable habitat, were assessed by a Habitat Suitability Index (HSI). This is a matrix which qualifies the value of the water bodies surveyed for great crested newts. The value given expressed as poorexcellent represents how likely a water body is to support great crested newts. Therefore a good pond is more likely to support great crested newts than an average, and so on (Oldham *et al.* 2000).

Reptiles

The site was appraised for its suitability to support reptiles. The assessment was based on guidance outlined in the Joint Nature Conservation Committees' published *Herpetofauna Workers' Manual* (Joint Nature Conservation Committee, 2003).

Bats

The buildings/trees within the site boundary were appraised by an experienced ecologist from WYG for their suitability to support breeding, resting and hibernating bats using survey methods based on those outlined in the Bat Conservation Trust's *Bat Surveys: Good Practice Guidelines* (2012) and English Nature's *Bat Mitigation Guidelines* (2004).

Badgers

The site was surveyed for evidence of badger setts or other badger activity such as paths, latrines or signs of foraging. Methodologies used and any setts recorded were classified according to published criteria (Harris, Cresswell & Jefferies, 1989). As the site is in an urban area, restricting movement for any badgers which may use the area, the survey for badgers was limited to the site boundary.

Other Species

The site was also appraised for its suitability to support other protected or notable fauna including mammals, birds and invertebrates in accordance with the Institute for Ecology and Environmental Management's *Guidelines for Preliminary Ecological Appraisal* (2012). Evidence of any current or historical presence of such species was recorded.

3.3 Invasive Species

The site was searched for evidence of invasive plant species, such as Japanese knotweed *Fallopia japonica*, Himalayan balsam *Impatiens glandulifera*, giant hogweed *Heracleum mantegazzianum*, wall cotoneaster *Cotoneaster horizontalis*, and rhododendron *Rhododendron ponticum* (see Appendix A Table A2 for full list).



3.4 Limitations

The comprehensiveness of any ecological assessment will be limited by the season in which surveys are undertaken. This survey was undertaken in August when many plants are flowering and/or in leaf. Therefore, a robust classification of the habitats was possible.

Two areas were surrounded by the hospital forming small courtyards. During the August visit these could not be accessed. However on the follow-up visit for the bat assessment (September 2015, *Bat Emergence and Return Surveys and Internal Building Assessment* WYG, 2015) they could be accessed and the habitats assessed. Therefore this has not caused any limitation to the overall survey.

Not all of the land within 30 m could be accessed for badgers. However the areas around were visible from the site through fences. Therefore lack of off-site access was not considered a limitation to the survey.

To determine presence or likely absence of protected species usually requires multiple visits at suitable times of the year. As a result, this survey focuses on assessing the potential of the site to support species of note, which are considered to be of principal importance for the conservation of biodiversity with reference to the National Planning Policy Framework (NPPF, 2012), especially those given protection under UK or European wildlife legislation.

This report cannot, therefore, be considered a comprehensive assessment of the ecological interest of the site. However, it does provide an assessment of the ecological interest present on the day of the visit and highlights areas where further survey work may be recommended.

The details of this report will remain valid for a period of two years from the survey (i.e. until August 2017). Beyond this period, if works have not yet been undertaken, it is recommended that a new review of the ecological conditions is undertaken.



4.0 Baseline Conditions

4.1 Designated Sites

One statutory site, designated for its nature conservation value was found within 2 km of the site. This is Ruislip Woods Site of Special Scientific Interest (SSSI) and National Nature Reserve (NNR), which is 0.96 km south-west of the site. This area, with large sections of ancient semi-natural woodland, includes the largest unbroken block of woodland in Greater London. The woodland and common making up Ruislip Woods includes a wide range of flowering plants. These in turn support nationally rare invertebrates and a diverse range of breeding birds.

There are 17 Sites of Importance for Nature Conservation (SINC) within 2 km of the site. These nonstatutory sites designated for their nature conservation value are graded into three tiers:

- Sites of Metropolitan Importance;
- Sites of Borough Importance (Borough I and Borough II); and
- Sites of Local Importance.

Brief details of each site are given in Table 1. Further information can found in the data search (Appendix B).

| Designation | Site Name | Distance & Direction | Summary of features |
|---------------------|--|----------------------------|---|
| Borough Grade II | Hog's Back Open Space (formerly Borough Hill) | 0.18 km north-east | A hillside site where narrow paths wind through dense woodland, grassland and scrub. |
| Borough Grade I | Haste Hill Golf Course, Northwood Golf Course and Northwood Park | 0.33 km South- west | Golf courses close to Ruislip Woods, with woodland and grassland areas. |
| Borough Grade II | Potter Street Hill | 0.71 km North- east | A meadow, spinney and other habitats within the grounds of St John's School. |
| Borough Grade I | Haydon Hall Meadows | 0.72 km South east | A series of lightly cattle-grazed meadows, an orchard and river corridor in the grounds of Haydon Hall. |
| Borough Grade II | St Vincent's Hospital Meadows | 0.84 km south- west | Two fields, one each side of St Vincent's Hospital, rich in butterflies and grasshoppers. |
| Metropolitan | Potter Street Hill North Pasture | 0.95 km North | A small field of flower-rich grassland with perhaps the largest population of devil's-bit scabious in |

Table 1 Non-statutory designated sites within 2 km



| Designation | Site Name | Distance & Direction | Summary of features |
|---------------------|-----------------------------------|----------------------------|---|
| | | | London. |
| Metropolitan | Ruislip Woods and Poor's Field | 0.96 km South- west | One of London's two National Nature Reserves, this site includes a large area of ancient woodlands, as well as heathland and grassland. |
| Borough Grade I | Pinnerwood Park and Ponds | 1.05 km North- east | A large private golf course with an ancient wood, flower-rich acid grassland and a number of ponds. |
| Borough Grade II | Northwood Railway Cutting | 1.11 km North- west | Wide banks on both sides of railway lines at Northwood. |
| Borough Grade II | Grim's Ditch and Pinner Green | 1.27 km East | Woodland associated with ancient earthworks, combining archaeological and historic interest with good wildlife habitat. |
| Borough Grade II | Fore Street Meadows | 1.34 km South | Two grazing fields, hedgerow and a section of public footpath situated on the east margin of Park Wood. |
| Local | River Pinn near Eastcote | 1.52 km South | The River Pinn flows through a series of open spaces, forming a green corridor. |
| Borough Grade II | Gravel Pit, Northwood | 1.54 km North- west | Heavily wooded gravel diggings, excellent for quiet walks. |
| Borough Grade II | The Grail Centre | 1.69 km East | The grounds of a religious retreat with a number of wildlife-friendly features. |
| Borough Grade II | Old Pumping Station Field | 1.85 km South- west | A large area of rich grassland with good native hedgerow boundaries. |
| Local | River Pinn at West Harrow | 1.95 km East | An attractive river corridor with a good range of wildlife habitats. |



4.2 Habitats

4.2.1 Plantation Broadleaved Woodland



Photo 1: The broadleaved woodland (eastern boundary)

Within the south-east corner of the site and along the eastern boundary there were patches of woodland. These all appeared to have been planted and were a mix of species including oak *Quercus robur*, ash *Fraxinus excelsior*, sycamore *Acer pseudoplatanus* and common lime *Tilia x Europaea*. The understorey was dominated by bramble *Rubus fruticosus* agg, with holly *Ilex aquifolium* and elder *Sambucus nigra* frequently encountered.

4.2.2 Scattered trees



Photo 2: Scattered trees



Around the site there were individual or small clumps of trees. Where these were growing they were mostly growing through amenity grassland or hard standing. Trees within this habitat included ash, hawthorn *Crataegus monogyna* and ornamental cherry *Prunus* spp.

4.2.3 Amenity grassland



Photo 3: Amenity grassland

This habitat covered large parts of the centre and east of the site. The grass was quite short (<50 mm). At the time of the survey many of the plants were in flower. Grass species included perennial rye grass *Lolium perenne*, creeping bent *Agrostis stolonifera* and red fescue *Festuca rubra*. Other herbaceous species included yarrow *Achillea millefolium*, daisy *Bellis perennis*, lesser celandine *Ranunculus ficaria* and bird's-foot trefoil *Lotus corniculatus*.

4.2.4 Species-rich hedgerow (defunct)

Photo 4: Species-rich hedgerow



Along the front (south) of the site is a short (approximately 15 m) stretch of hedgerow. For its length there is a high number of woody species. The species found included ash, hawthorn, sycamore, honeysuckle *Lonicera periclymenum*, copper beech *Fagus sylvatica* f. *purpurea* and fig *Ficus carica*. Whilst the hedgerow has a good diversity of plants, it is adjacent to a busy road, and isolated from other habitats which reduces its value to wildlife. It was *defunct* under Phase 1 classification as it is only a short section and not stock-proof.

4.2.5 Species-poor hedgerow



Photo 5: The species poor Leyland cypress hedge

Along the northern boundary there was a Leyland cypress hedge *Cupressocyparis x leylandii*. This plant has shaded out other competitors making the hedgerow relatively species poor.

4.2.6 Introduced Shrubs



Photo 6: Sections of introduced shrub



Around the borders of the amenity grassland, there were several patches of introduced shrubs. These were no longer maintained, and had overgrown the adjacent grass or pathways. The species within these were predominantly non-native plants and included butterfly bush *Buddleja davidii*, variegated box *Buxus sempervirens variegate*, wall cotoneaster and dog rose *Rosa canina*.

4.2.7 Buildings

The buildings on site comprise the main hospital building with various extensions, brick and wooden sheds to the north, and a substation to the south-east. As buildings can support roosting bats they are discussed further in Section 4.3.

4.2.8 Hard standing



Photo 7: Part of the hard standing (car park)

The hard standing within the site comprised car parking, access roads and pathways. These were made from tarmac or concrete and unsuitable for plants to grow on or through.

4.3 Protected & Notable Species

4.3.1 Great Crested Newts

Desk Study

There are records of great crested newt within 2 km of the site. The nearest is 1.4 km north-west of the site (latest record is from 2011). Although the precise location of this record is not given, the area where it was found is disconnected from the site by dense housing and roadways.



Field Surveys

HSI Assessment

No water bodies were found within 500 m of the site that were connected by suitable habitat. No HSI assessment was therefore carried out.

Terrestrial habitat

The habitat on site was mostly short grassland, buildings and hard standing, all of which are unsuitable for great crested newts (though the newts could commute over grass and hard surfaces). The woodland provided more suitable habitat, with the understorey providing cover, and the dead wood from the trees forming potential refugia or hibernacula.

Overall, as there were no potential breeding ponds on or near the site, it is considered unlikely that great crested newts will use it.

4.3.2 Reptiles

Desk Study

Records of slow worm *Anguis fragilis*, common lizard *Zootoca vivipara*, grass snake *Natrix natrix, and* adder *Vipera berus* were returned within 2 km of the site. The first three were found 1.76 km south west of the site (latest record 2010), which is likely to be all from the same site. The area where these reptiles were found is disconnected from the site by unsuitable habitat (Pinner Road). The record for adder does not have a location as this species suffers persecution from humans. The most recent date is given as 2010.

Field survey

The majority of the habitat (i.e. the built structures and hard standing) on the site was low value for reptiles. Reptiles could bask on the periphery of the hard standing, but it would provide little cover from predators. The grassland was slightly better, providing some more cover and potential and invertebrate food source, however it is still unlikely to provide significant cover from predators. The most likely areas on the site to support reptiles are at the boundaries of two habitats e.g. amenity grassland and introduced shrubs, where reptiles could bask in short vegetation and escape to taller vegetation. Such areas cover only a small portion of the site, therefore the opportunities for reptiles are limited. As the site is in a dense urban area, and it is disconnected from large areas of other suitable habitats and source populations, the site has low potential for reptiles.



4.3.3 Bats

Desk study

Records of seven species of bat were found within 2 km of the site. The date and distance from the site of the nearest record of each species is given in Table 2.

| Latin name | English name | Distance and direction | Date |
|---------------------------|----------------------|------------------------|------|
| Pipistrellus pipistrellus | Common pipistrelle | 1.84 km South-west | 2007 |
| Pipistrellus pygmaeus | Soprano pipistrelle | 1.84 km South-west | 2007 |
| Eptesicus serotinus | Serotine | 1.84 km South-west | 2006 |
| Myotis daubentonii | Daubenton's bat | 1.84 km South-west | 2006 |
| Nyctalus leisleri | Leisler's bat | 1.84 km South-west | 2006 |
| Nyctalus noctula | Noctule | 1.84 km South-west | 2006 |
| Plecotus auritus | Brown long-eared bat | 1.97 km North | 2005 |

| Table 2 | Nearest record of each species of bat found within 2 km of the site |
|---------|---|
| | |

Field survey

There were five buildings, or sections of buildings within the site. A sixth structure, a burned out shed was completely unsuitable for bats. Likewise a seventh was a smashed-up shed, and neither were considered for their bat roost potential. The actual hospital building will be considered as three separate structures. For locations of each building/building section see Figure 2.



Main Building (B1)



Photos 8 and 9: The south (left) and west (right) elevations of the Main Building viewed from the south

The Main Building was constructed in the 1920's. The structure was brick mostly covered with a ceramic tiled, pitched roof. There are sections of flat roof on the north, west and east elevation. These were covered with roofing felt, and with the exception of the west elevation, had a parapet wall running around the edges.

The window frames were almost all wooden, with a few modern uPVC frames. Along parts of the western and eastern elevations there were ceramic hanging tiles. These hanging tiles and the ones on the roof were in a poor condition with several having broken or slipped out. This allowed potential access for bats to get under the roof tiles.

No evidence of bats (e.g. droppings or staining) was noted.

Given the building's opportunities for bats to roost and its urban setting, the Main Building had **moderate** bat roost potential.



North Annex (B2)





Photos 10 and 11: The North Annex viewed from the north-west (left) and east (right)

The North Annex is attached to the east side of the Main Building. It is a similar style of structure to the Main Building, and appeared to have been built at the same time or shortly after. It is a brick structure, with a ceramic-tiled roof. It had wooden framed windows, and on the roof there was a door in a dormer structure leading to the roof void.

There were a few slipped or broken tiles on the roof. These provided access under the tiles and potentially into the roof void.

No evidence of bats was found.

Given the building's opportunities for bats to roost and its urban setting, the North Annex had **moderate** bat roost potential.



South Annex (B3)



Photos 12 and 13: The southern elevation of South Annex showing the brick section (left) and plastic walled section (right)

The South Annex was also joined to the Main Building on that structure's east side. It appeared to be much more modern than the Main Building and North Annex, most likely to be no more than 40 years old. It consists of a plastic-walled section with a metal roof, and a brick section which had a felt rood and wood cladding around the eaves. The structure of the building was in good condition, with no potential bat access points noted in the South Annex.

No evidence of bats was noted.

Given the good condition of the South Annex it had **negligible** bat roost potential.



Shed (B4)



To the north-east of the main building there was a brick shed. The roof was formed of concrete covered with roofing felt. Some of the windows had been broken allowing a view inside the structure. There was no opportunity for bats to roost in the building or on the roof.



No evidence of bats was seen.

Given the lack of opportunities for bats, the Shed had **negligible** roosting potential.

Substation



Photo 14: Substation

At the edge of the woodland in the south-east of the site there was a small building, likely to house a substation or other electrical equipment. It was constructed from brick with a flat felt roof. On the west elevation was a wooden louvered door. The Substation was in a relatively good condition, and there appeared to be no gaps or crevices suitable for bats to roost.

No evidence of bats was seen.

Given the lack of opportunities for bats, the Substation had **negligible** roosting potential.

Trees

The trees within the site were all immature or semi-mature. Some had small crevices or holes in the trunk. However none of the trees on the site had features of sufficient size to support roosting bats. All the trees were either Category 3 (Hundt 2012), i.e. they had **negligible** bat roost potential.

Foraging and commuting

The landscaped habitats on the site (woodland, hedgerows, grassland and shrub) may support the invertebrates on which bats feed. The site also forms part of the green network of gardens and small parks which join up the larger green spaces around Northwood. Therefore bats may commute through on their way between feeding areas or between foraging sites and their roosts. The site therefore may be of value for foraging and commuting bats.



4.3.4 Badgers

Desk study

No records of badgers were returned from within 2 km of the site.

Field survey

The site provided suitable habitat for badgers, with woodland and some of the shrubs providing cover for them to build their setts. The amenity grassland was likely to provide a source of worms and other badger prey. During the survey no evidence of badgers was noted, which would include sett entrances, foraging 'snuffle' holes, latrines or badger hairs. All areas of the site were accessible, and all areas of suitable habitat (i.e. not hard standing or buildings) within 30 m of the site, were visible from the boundary. The site is therefore unlikely to be used by badgers.

4.3.5 Other species

Nesting birds

Desk study

Sixty-two species of bird have been recorded within 2 km of the site. Many of these are approximately 1- 2 km south-west of the site which means they are likely to be associated with Ruislip Lido or the woodlands nearby. However there are several species which could utilise the site including house sparrow *Passer domesticus*, herring gull *Larus argentatus* starling *Sturnus vulgaris* and song thrush *Turdus philomelos*; all four of these species are on the red list of Birds of Conservation Concern (RSPB 2009).

Field survey

No birds were noted nesting during the survey, however it was late in the season and their young may have already fledged. The site offers a variety of nesting possibilities, both natural and manmade. These include some of the more mature trees which have many braches making up a network of support for nests, and the flat roof of the hospital building which provide a platform away from predators.

4.4 Invasive species

Wall cotoneaster *Cotoneaster bullatus* and butterfly bush *Buddleia sp.* were found within the introduced shrubs (Target Note 1, Figure 1). Both of these are invasive species in London.



5.0 Constraints & Opportunities

5.1 Designated Sites

The designated sites are all sufficiently distant from the site so to avoid direct impacts during works at the site and no pathways exist between the development site and the designated site. This includes demolition of the existing buildings and construction of new structures on the site. There is likely to be a slight increase in traffic during construction, but given that the area is already heavily built up, the main access routes are already busy. Therefore any increased impacts on designated sites near to the access routes is likely to be insignificant.

The site lies within a SSSI Impact Risk Zone on the MAGIC map. This means where a development is greater than no. 100 residential units, Natural England should be consulted. The space available on the site is limited (approximately 0.6 ha), therefore it is unlikely that such a high number of dwellings will be built.

Following the construction of residential properties there will be an increase in the population and therefore visitors to the nearby green spaces. The nearest designated site is the Hog's Back Open Space to the north-east, and this is the most likely to be visited. The site description does not include reference to ground nesting birds or other animals vulnerable to disturbance by dogs. Therefore there is not expected to be a significant impact on species using the site. To minimise the change in visitor pressure on the Hog's Back Open Space and other sites, it is recommended that some public green space is included within the development design.

5.2 Habitats

The habitats on sites were locally common, and as such were of negligible value other than to the species they support. No further habitat or floral surveys are necessary.

5.3 Protected & Notable Species

Only species which could be found within the site are detailed in this section. For justification of this see Section 4.3.

5.3.1 Reptiles

Mitigation

The development of the site will result in the loss of all the habitats which are suitable for reptiles. It is feasible that they use the site, therefore vegetation clearance could kill or injure reptiles. This would contravene the *Wildlife and Countryside Act 1981* (as amended). To avoid this we recommend that when vegetation is removed it is done in a way that is sensitive to reptiles.



Sensitive vegetation clearance should follow this method:

 Prior to site clearance, maintain grass at a low level (~150 mm) to avoid this becoming reptile-suitable habitat;

Under supervision of a suitably qualified ecologist:

- During vegetation clearance cut all vegetation (including shrubs) to approximately 150 mm during warm (10°C +) and dry weather.
- The vegetation should be left alone for one day one week to allow reptiles to leave of their own accord;
- Log piles and other debris should be dismantled by hand;
- The vegetation should be re-cut, to ground level-50 mm; and
- After one day one week the top layer of earth should be removed.

During site clearance and demolition, rubble piles and other debris should be taken off site, or compacted to avoid reptiles using these as refugia.

Enhancement

Development of the site offers opportunity to improve the local area for reptiles. We recommend that the landscaping is designed with biodiversity, including reptiles, in mind. This will include growing medium-height herbaceous plants alongside areas of shorter vegetation to provide foraging and basking opportunities respectively. Where possible this vegetation should be along or joined to the boundary of the site so that reptiles have a green connection to land off-site. If there is sufficient land available, reptile refugia could be created from rubble, wood or other debris, which is covered with soil.

5.3.2 Bats

The old hospital buildings provided opportunities for bats to roost. As these buildings will be demolished to clear the site for development, if bats are roosting the works would contravene the *Wildlife and Countryside Act 1981* (as amended) and the *Conservation of Habitats and Species Regulations 2010* (as amended). To determine if the buildings are being used by bats to roost, and to design mitigation to avoid an offence occurring, further emergence and return surveys, as well as an internal assessment of the buildings where possible, are recommended.

An emergence and return survey and internal assessment should be carried out following the guidance set out in the BCT guidelines (Hundt, 2012). For the site (Main Building and North Annex only) the following survey effort is recommended:

• One dusk emergence followed by a dawn return visit the next morning; and



• One dusk emergence visit.

These surveys were carried out in September 2015 (see WYG, 2015).

5.3.3 Nesting birds

Mitigation

Where it is necessary to demolish buildings or fell trees there is a risk that birds' nests may be destroyed and/or their young killed. This would contravene the *Wildlife and Countryside Act 1981* (as amended). To help avoid this we recommend that any such works are carried out outside the bird nesting season (which runs March-September, inclusive). If this period cannot be avoided a check for nesting birds should be carried out. If active nests are found a buffer should be set up around these, within which no work can take place, until the young have fledged. The size of the buffer will vary dependent on the level of disturbance but as a minimum it should be 5m.

Enhancement

Construction of new buildings allows for the inclusion of new and replacement nesting opportunities. In line with local and national planning policy (e.g. Hillingdon Local Plan Policy EM7), we recommend that bird nest boxes are installed on or in the new buildings, and/or on retained trees. These should includ boxes which target London BAP species, or national Priority Species e.g. house sparrow, starling or song thrush.

5.4 Invasive species

Two invasive species were found on the site. One was wall cotoneaster which is listed on Schedule 9 of the *Wildlife and Countryside Act 1981* (as amended). It is illegal to allow this plant to spread in the wild. The second is butterfly bush, which has no legal restrictions covering it, but is listed by the London Invasive Species Initiative (LISI).

To avoid spreading these species it is recommended that where they are to be removed, that they should be sprayed to kill them beforehand. If this is not possible, all the plant material should be chipped after removal.



6.0 Conclusions

Further survey works should be carried out for bats (undertaken in September 2015); and a check of buildings and trees to be demolished or felled, for nesting birds. This will inform appropriate mitigation as detailed in Section 5. The surveys, checks and mitigation will be designed to allow the works to proceed in line with UK and EU wildlife legislation.

Within the site design, there should be some green space allowed for recreation. This will reduce the level of visitor pressure on the local designated sites.

Where invasive plant species are removed, they should be treated first to kill the plant and avoid its spread. If not possible the whole plant should be dug up and chipped.

Following local and national planning policy, enhancements for biodiversity can be included in the form of habitat creation for reptiles and bird boxes.



7.0 References

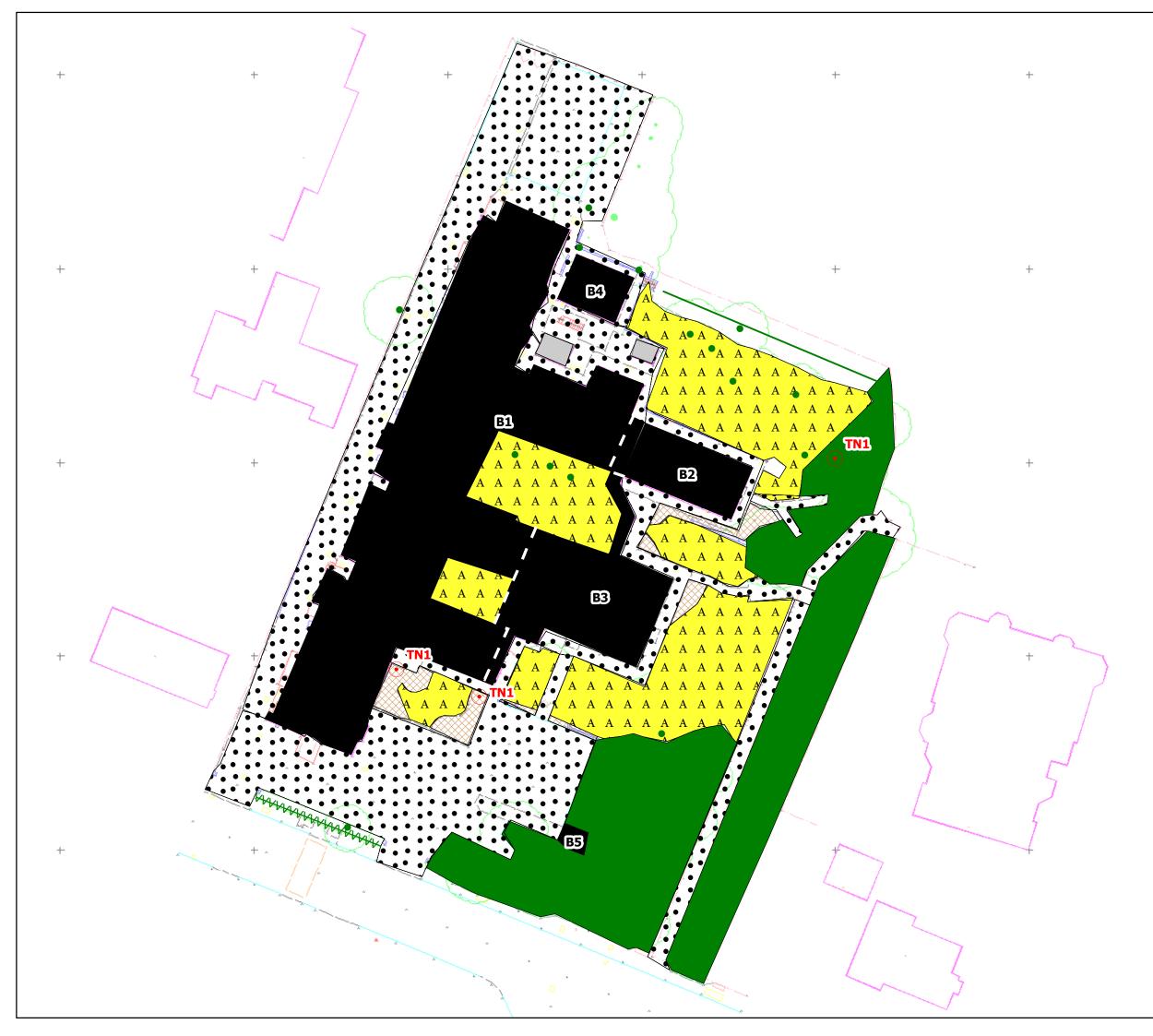
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FIGURES

Figure 1 – Site Location Plan Figure 2 – Phase 1 Habitat Plan





| Ň | | | | | |
|--|--------------------------------|--|------------------------|--|--|
| Leg | end | | | | |
| | Broadle woodla | | | | |
| AA | Amenit | y grassla | nd | | |
| | Introdu | iced shru | b | | |
| | Building | 9 | | | |
| •••• | Hard st | anding | | | |
| | - | Damaged shed (no bat roost potential) | | | |
| | Species-rich ≁ hedgerow | | | | |
| | Species-poor hedgerow | | | | |
| Scattered tree | | | | | |
| • Target note TN1: Invasive Species: Wall cotoneaster/ butterfly bush | | | | | |
| 0 2.5 5 | 10 | 15 20 | m | | |
| Drawing title: Phase 1 I | Habitats Ma | ар | | | |
| Project: A094148 | Northwood | l and Pinne | er Hospital | | |
| A094148 Northwood and Pinner Hospital Client: NHS Property Services | | | | | |
| Scale (A3): 1:450 | Created by: TJB 27/11/15 | Reviewed by: | Verified by: // | | |
| Office: 4594 | Drawing numb | | Revision: Rev.01 | | |
| WYG Pla 100 St. Johr London EC1M 4EH Tel: 0207 25 Fax: 0207 2 | nning & E | (| | | |



APPENDIX A - Legislation



Introduction

The UK has ratified a number of Conventions and implemented legislation pertaining to the protection of biodiversity and habtiats, either independently or as member state of the European Union. These are defined and summarised below.

Lists of theatened, endagered and extinct species are also provided, together with a summary explanation of each.

Bern Convention (1982)

The *Convention on the Conservation of European Wildlife and Natural Habitats* (the *Bern Convention*) was adopted in Bern, Switzerland in 1979, and was ratified in 1982. Its aims are to protect wild plants and animals and their habitats listed in Appendices 1 and 2 of the of the Convention, and regulate the exploitation of speices listed in Appendix 3. The regulation imposes legal obligations on participating countires to protect over 500 plant species and more than 1000 animals.

To meet its obligations imposed by the Convention, the European Community adopted the *EC Birds Directive* (1979) and the *EC Habitats Directive* (1992 – see below). Since the Lisbon Treaty, in force since 1^{st} December 2009, European legislation has been adopted by the European Union.

Birds Directive (BD)

The *EC Directive on the Conservation of Wild Birds* (791409/EEC) or '*Birds Directive*' was introduced to achieve favourable conservation status of all wild bird species across their distribution range. In this context, the most important provision is the identification and classification of Special Protection Areas (SPAs) for rare or vulnerable species listed in Annex 1 of the Directive, as well as for all regularly occurring migratory species, paying particular attention to the protection of wetlands of international importance.

Birds of Conservation Concern (BoCC)

This is a review of the status of all birds occuring regularly in the United Kingdom. It is regularly updated and is prepared by leading bird conservation organisations, including the British Trust for Ornithology (BTO), Joint Nature Conservation Committee (JNCC) and The Royal Society for the Protection of Birds (RSPB).

The latest report was produced in 2009 (Eaton *et al*, 2009) and identified 52 red list species, 126 amber species, and 68 green species. The criteria are complex, but generally:

- Red list species are those that have shown a decline of the breeding population, nonbreeding population or breeding range of more than 50% in the last 25 years.
- Amber list species are those that have shown a decline of the breeding population, nonbreeding population or breeding range of between 25% and 50% in the last 25 years.
 Species that have a UK breeding population of less than 300 or a non-breeding population of less than 900 individuals are also included, together with those whose 50% of the population



is localasied in 10 sites or fewer and those whose 20% of the European population is found in the UK.

• Green list species are all regularly occurring species that do not qualify under any of the red or amber criteria are green listed

Bonn Convention

The Convention on the Conservation of Migratory Species of Wild Animals or `*Bonn Convention*' was adopted in Bonn, Germany in 1979 and came into force in 1985. Participating states agree to work together to preserve migratory species and their habitats by providing strict protection to species listed in Appendix I of the Convention. It also establishes agreements for the conservation and management of migratory species listed in Appendix II.

In the UK, the requirements of the convention are implemented via the *Wildlfie & Countryside Act 1981* (as amended), *Widlife (Northern Ireland) Order 1985*, *Nature Conservation and Amenity Lands (Northern Ireland) Order 1985* and the *Countryside and Rights of Way Act 2000* (CRoW).

Global IUCN Red List

The International Union for Conservation of Nature (IUCN) Threatended Species was devised to provide a list of those species that are most at risk of becoming extinct globally. It provides taxonomic, conservation status and distribution information about threatened taxa around the globe.

The system catalogues threatened species into groups of varying levels of threat, which are: Extinct (EX), Extinct in the Wild (EW), Critically Endangered (CE), Endangered (EN), Vulnerable (VU), Near Threatened (NT), Least Conern (LC), Data Deficient (DD), Not Evaluated (NE). Criteria for designation into each of the catgories is complex, and consider several principles.



Habitats Directive

The *Council Directive 92/43/EEC on the Conservation of Natural Habitats and of Wild Fauna and Fora*, or the *`Habitats Directive*', is a European Union directive adopted in 1992 in response to the Bern Convention. Its aims are to protect approximately 220 habitats and 1,000 species listed in its several Annexes.

In the UK, the *Habitats Directive* is transposed into national law via the *Conservation of Habitats and Species (Amendment) Regulations 2012* in England, Scotland and Wales, and via the *Conservation (Natural Habitats, &c) Regulations (Northern Ireland) 1995 (as amended)* in Northern Ireland.

Protection of Badgers Act 1992 (PBA 1992)

The main legislation protecting badgers in England and Wales is the *Protection of Badgers Act 1992* (the 1992 Act). Under the 1992 Act it is an offence to: wilfully kill, injure, take or attempt to kill, injure or take a badger; dig for a badger; interfere with a badger sett by, damaging a sett or any part thereof, destroying a sett, obstructing access to a sett, causing a dog to enter a sett or disturbing a badger while occupying a sett.

The 1992 Act defines a badger sett as: "any structure or place which displays signs indicating current use by a badger"

National Planning Policy Framework (2012)

Following the publication of the National Planning Policy Framework (NPPF) in March 2012, *Planning Policy Statement 9* (PPS9): *Biodiversity and Geological Conservation* (2005) has been withdrawn. However, *ODPM 06/2005: Biodiversity and Geological Conservation – Statutory Obligations and their impact within the Planning System* (the guidance document that accompanied PPS9) has not been withdrawn and, where more detailed guidance is required than is given within the NPPF, local planning authorities will continue to rely on ODPM 06/2005.

This guidance requires local planning authorities to take account of the conservation of protected species when determining planning applications and makes the presence of a protected species a material consideration when assessing a development proposal that, if carried out, would be likely to result in harm to the species or its habitat.

In the case of European Protected Species such as bats, planning policy emphasises that strict statutory provisions apply (including the *Conservation of Habitats and Species (Amendment) Regulations 2012*), to which a planning authority must have due regard.

Where developments requiring planning permission are likely to impact upon protected species it is necessary that protected species surveys are undertaken and submitted to meet the requirements of paragraph 98 of ODPM Circular 06/2005 which states that:



`The presence of a protected species is a material consideration when a planning authority is considering a development proposal that, if carried out, would be likely to result in harm to the species or its habitat.'

General guidance within the body of the NPPF which are also potentially relevant to the possible presence of bats at the Site includes the following statements:

"The planning system should contribute to and enhance the natural and local environment by:

- protecting and enhancing valued landscapes, geological conservation interests and soils;
- recognising the wider benefits of ecosystem services;
- minimising impacts on biodiversity and providing net gains in biodiversity where possible, contributing to the Government's commitment to halt the overall decline in biodiversity, including by establishing coherent ecological networks that are more resilient to current and future pressures"

"Local planning authorities should set criteria based policies against which proposals for any development on or affecting protected wildlife or geodiversity sites or landscape areas will be judged."

"When determining planning applications, local planning authorities should aim to conserve and enhance biodiversity by applying the following principles:

 if significant harm resulting from a development cannot be avoided (through locating on an alternative site with less harmful impacts), adequately mitigated, or, as a last resort, compensated for, then planning permission should be refused;"

Habitats and Species of Principal Importance in England

Section 41 (S41) of the *Natural Environment and rural Communities (NERC) Act 2006* requires the Secretary of State to publish a list (in consultation with Natural England) of habitats and species which are of principal importance for the conservation of biodiversity in England. The S41 list is used to guide decision-makers such as public bodies including local and regional authorities, in implementing their duty under Section 40 of this Act, to have regard to the conservation of biodiversity in England, when carrying out their normal (e.g. planning) functions. The S41 list includes 65 habitats of principal importance and 1,150 species of principal importance.

The Conservation of Habitats and Species Regulations 2010 (as amended)

The *Conservation of Habitats and Species Regulations 2010* (as amended) transpose the various provisions of Directive 92/43/EC ('the Habitats Directive') into UK law.



Regulations place a duty on the Secretary of State to propose a list of sites which are important for either habitats or species (listed in Annexes I or II of the Habitats Directive respectively) to the European Commission. These sites, if ratified by the European Commission, are then designated as Special Protection Areas (SPAs) within six years. The 2012 amendments include that public bodies help preserve, maintain and re-establish habitats for wild birds.

The Regulations also make it an offence to deliberately capture, kill, disturb or trade in the animals listed in Schedule 2, or pick, uproot, destroy, or trade in the plants listed in Schedule 5 (see Table B1).



APPENDIX B – Data Search



Greenspace Information for Greater London CIC the capital's environmental records centre

eCountability

An Ecological Data Search for Northwood and Pinner Hospital

On behalf of WYG

Report reference 265



Prepared on 10 Sep 2015 by Alec Walker, eCountability Ltd. enquiries@eCountability.co.uk

Prepared by eCountability Ltd (enquiries@ecountability.co.uk) on behalf of: Greenspace Information for Greater London CIC Registered Office: 10 Queen Street Place, London EC4R 1BEA community interest company limited by guarantee registered in England and Wales number 8345552 Post: C/O London Wildlife Trust, Dean Bradley House, 52 Horseferry Road, London SW1P 2AF T: 020 7803 4285 Fx: 020 7633 0811 E:maria.longley@gigl.org.uk

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Annex B – Supporting Information



1.0 Introduction

An ecological data search for Northwood and Pinner Hospital and surrounding land to a 2000m radius on behalf of WYG.

The following report was compiled by eCountability Ltd on behalf of WYG, to provide ecological information for the above site for a Planning application. This report may include information on statutory sites, non-statutory sites, species records, habitat or open space information held by GiGL, as requested for the above search area. The boundaries of this search area are defined in the maps in Annex A and lie within the London Borough(s) of Hillingdon and Harrow.

*** Please note the search area falls partly outside of the GiGL data area. This report only covers the data available from the GiGL data holdings. Please see the GiGL Data Holdings Check Map in Annex A for the location of available data included in this report ***

Important information about this report

The data provided within this report is for the **internal** use of WYG (which includes the client where applicable) to inform understanding of the site of interest for **1 year** in accordance with the terms and conditions agreed to on request of the search.

The data provided must not be distributed or published for an external or public audience, for example within the appendix of a report. Local Planning Authorities may request a copy of the data from GiGL either via their Service Level Agreement (most boroughs are GiGL partners) or as a data search.

The report is compiled using data held by GiGL at the time of the request. GiGL takes the accuracy of our data holdings very seriously and the Recorder Advisory Group is set up to help with this important task to ensure what we provide to you is the best data possible for your needs.

GiGL is constantly striving to improve the coverage and currency of its data holdings. We would be interested in hearing from you if you are able to submit species or habitat data arising from field surveys.

2.0 Statutory Sites and Local Nature Reserves

A desk-based search shows that there are 2 sites with European or National statutory designation within the search area and no LNRs.

Any citations currently available for the statutory sites within the search area can be seen on the following pages.

Statutory site designations:

- Special Area of Conservation (SAC)
- Special Protection Area (SPA)
- Ramsar sites
- Site of Special Scientific Interest (SSSI)
- National Nature Reserve (NNR)
- Local Nature Reserve (LNR)

For further explanations of the designations please see the "Supporting Information" annex. Please note that statutory citations are legal documents, the content of which is fixed and true at the time of designation. Species referred to in the citations may not be present on site today. Citations may have been written based on data not held by GiGL.



Ruislip Woods NNR

| Access: | Open |
|--------------------------------|---|
| County: | Greater London |
| Local Team: | Essex, Hertfordshire & London Team |
| Main Habitats: | Woodland, Open Water, Lowland Grassland |
| Natural Area: | London Basin |
| Area (Ha): | 296 |
| Number of visitors (annually): | 175,000 |

Introduction

Ruislip Woods National Nature Reserve (NNR) consists of five principal areas - Poor's Field, Mad Bess, Bayhurst, Park Wood and Copse Wood - making a total of 295.7 ha. As a unit it represents 10% of London's Semi-Natural Ancient Woodland (SNAW). Park Wood, at 100.2 ha, is the largest unbroken wood in London.

Ruislip Woods were declared as an SSSI in 1950 and became London's first NNR in May 1997.

Significant habitats and species

The majority of the site is wooded, with extensive areas of hornbeam coppice overstood with either common or sessile oak. The remaining woods are secondary, consisting of oak/birch, birch/aspen, beech and sweet chestnut.

Most of the woodlands contain historical earthbanks, some with layed or stubbed trees indicating external boundaries, former divisions within the wood and cover for game shooting.

Situated between Park Wood and Copse Wood is Poor's Field, an area of 16.2 ha, which is a Registered Common. Sub-soil ranging from Reading Beds to Reading Sand, combined with a long history of grazing, has given rise to a wide range of flowering plants.

There are numerous header streams, mostly running in their original meanders, and areas of wetland surrounding small bodies of water amounting to approximately 6 ha.

Management

Following the collapse of the coppice industry in the 1930s, little management work was undertaken until the early 1980s. Following the adoption of the Ruislip Woods Long-Term Management Plan, the London Borough of Hillingdon commenced works in 1982 with particular emphasis on restoring the coppice. Many areas have now been cut, and the transformation from areas of dark, out-of-cycle coppice to a mosaic of regenerated woodland is now well under way.

Grazing on Poor's Field ceased in 1956 and during the next 25 years tree and shrub encroachment was widespread. Between 1982 and 1997 tree felling and mechanical vegetation control achieved reasonable success in restoring some of the grasslands and a more open aspect.

In May 1997, with the assistance of grant aid from English Nature, Poor's Field was fenced and gated,. Through a local farmer cattle grazing has been reinstated during the summer months.

Location and access

The woods are situated in Ruislip. There are a number of roads which pass nearby, including Ducks Hill



road, and Breakspear road North. There are three carparks available at, Mad Besswood, Bayhurst Wood, and next to Poors Field. Various bus routes pass nearby and through the reserve. There is limited disabled access at certain points throughout the woodland complex.

Facilities

There are no toilet or refreshment facilities at the site, with the nearest available located at Ruislip Lido. There are some interpretation leaflets available at the reserve. The site can be visited at any time of the year.



Site Name: Ruislip Woods

| District: | Hillingdon |
|-----------|------------|
|-----------|------------|

Status:Site of Special Scientific Interest (SSSI) notified under Section 28
of the Wildlife and Countryside Act 1981 as amended

Local Planning Authority: London Borough of Hillingdon

| National Grid Reference: | TQ081892 | Area: | 305.4 hectares |
|--------------------------|----------|-------|----------------------------|
| | 10001002 | Alca. | 505. 4 ncolarcs |

Description and Reasons for Notification:

The Ruislip Woods form an extensive example of ancient semi-natural woodland, including some of the largest unbroken blocks that remain in Greater London. A diverse range of oak and hornbeam woodland types occur, with large areas managed on a traditional coppice-with-standards system. The site is also unusual in Greater London for the juxtaposition of extensive woodland with other semi-natural habitats, mostly notably acidic grass-heath mosaic and areas of wetland. These habitats and especially the woodland contain a number of plant and insect species that are rare* or scarce* in a national or local context.

The woodland lies in four major blocks, known as Bayhurst, Mad Bess, Copse and Park Woods, situated across the upper slopes and valleys at the head of several stream systems. Park Wood is the only unbroken area of ancient semi-natural woodland larger than 100 hectares in Greater London. Nearly all the woodland is on London Clay or clays of the Reading Beds. This has given rise to soils which are acidic and frequently poorly drained, especially in some of the valleys and on the more gently sloping ground. Characteristically of such soils in south-east Britain, the woodland is mostly dominated by pedunculate oak *Quercus robur*, sessile oak *Q. petraea*, hornbeam *Carpinus betulus* and birch/sessile oak woodland, a variant of pedunculate oak-hornbeam woodland and acidic sessile oak-hornbeam woodland. Most of the stand types are uncommon or localised in Great Britain, and these include the oak and hornbeam types which cover large areas in each of the woods.

The woodland varies widely in structure, with parts supporting mature high forest and more extensive areas supporting hornbeam coppice with oak standards. There are also areas of recent secondary woodland at various stages of development toward high forest. In recent years management of the old coppice has been reinstated on a large scale adding further variety to the woodland features.

The distribution of the different stand types partly reflects the soils and former management. The pedunculate oak-hornbeam woods occur predominantly in Mad Bess Wood, Copse Wood and the southern part of Park Wood. These are replaced by sessile oak-hornbeam wood in the north of Park Wood and Bayhurst Wood. Also in Bayhurst Wood the occurrence of beech *Fagus sylvatica* provides a transition to acidic sessile oak-beech woodland. Examples of birch-oak woodland tend to occur on more freely draining soils, particularly in Copse and Park Woods. Many of the tree and shrub species that are associated with ancient woodland occur within these woods. These include field maple *Acer campestre*, midland hawthorn *Crataegus laevigata*, aspen *Populus tremula*, wild cherry *Prunus avium*, wild service tree *Sorbus torminalis* and guelder-rose *Viburnum opulus*. Where the drainage is impeded the range of species also includes alder *Alnus glutinosa*, willow *Salix* species and the less common alder buckthorn *Frangula alnus*.

The acidic soils give rise to a characteristically limited ground flora which is often sparse or absent under the dense shade of old hornbeam coppice. The dominant species include bramble *Rubus fruticosus*, bracken *Pteridium aquilinum*, honeysuckle *Lonicera periclymenum*, creeping softgrass *Holcus mollis* and, in places, bluebell *Hyacinthoides non-scripta*.

Along rides, in areas of recently-cut coppice and on damper ground in the stream valleys, the ground flora tends to be more diverse. Many of the species are strongly associated with ancient woodland such as wood anemone *Anemone nemorosa*, yellow archangel *Lamiastrum galeobdolon*, yellow pimpernel *Lysimachia nemorum* and betony *Stachys officinalis*. Several others are scarce in Greater London, including broad-leaved helleborine *Epipactis helleborine*, violet helleborine *E. purpurata* and common cow-wheat *Melampyrum pratense*.

Areas of wetland vegetation occur in some of the main valleys, such as at Ruislip Local Nature Reserve which supports a species-rich association of willow carr, tall fen and swamp communities. Additional



diversity is provided by the juxtaposition of the woodland with areas of acidic grassland, neutral grassland and open heath. Poor's Field, situated adjacent to Copse Wood on the sand and clays of he lower Reading Beds, supports a complex mosaic of these habitats. Characteristic species of the more acidic parts include heather *Calluna vulgaris*, tormentil *Potentilla erecta* and mat-grass *Nardus stricta*. Species which are rare or scarce in Greater London such as heath spotted orchid *Dactylorhiza maculata*, petty whin *Genista anglica*, lousewort *Pedicularis sylvatica* and dwarf gorse *Ulex minor* also occur.

The woodlands and adjacent open habitats support an insect fauna which includes nationally rare* and nationally scarce* species of moths (*Lepidoptera*), beetle (*Coleoptera*) and two winged flies (*Diptera*). Among the rarer species are two moths, the light orange underwing *Archiearis notha* and the lead-coloured drab *Orthosia populeti* associated with aspen, and the great oak beauty *Boarmia roboraria*, a moth whose larvae feed on oak. The Diptera include a nationally rare soldier fly *Xylomyia maculata* (vulnerable**) which is confined to a few ancient woodlands containing overmature trees with rot holes.

The Ruislip Woods also support a diverse range of breeding birds characteristic of woodland habitat. These include tawny oak *Strix aluco*, all three British species of woodpecker: green *Picus viridus*, greater spotted *Dendrocopos major* and lesser spotted *D. minor*, willow tit *Parus montanus*, nuthatch *Sitta europaea* and the less common woodcock *Scolopax rusticola* and hawfinch *Coccothraustes coccothraustes*. The large extent of the woods and the presence of adjoining open habitats provide particularly suitable conditions for several of the less common breeding species.

* Nationally rare: recorded from 15 or less 10 km squares in Britain; nationally scarce: 15-100 km squares.

** The term 'vulnerable' refers to status category 2 in Shirt, D B, (ed) 1987, **British Red Data Books 2**, Insects. The status of individual species is subject to periodic review.

Other Information:

Ruislip LNR was declared in 1959 and is managed jointly by the Ruislip and District Natural History Society and the Hertfordshire and Middlesex Wildlife Trust. Tarleton's Lake is managed as a nature reserve by the Hertfordshire and Middlesex Wildlife Trust. Bayhurst Wood is a Countryside Park. There are several boundary amendments from the former SSSI, including extensions.



3.0 Non-Statutory Sites

A desk-based search shows that there are 17 SINCs and 2 RIGS/LIGS within the search area.

3.1 Sites of Importance for Nature Conservation

Introduction

Sites of Importance for Nature Conservation (SINCs) are recognised by the Greater London Authority and London borough councils as important wildlife sites.

There are three tiers of sites:

- Sites of Metropolitan Importance
- Sites of Borough Importance (borough I and borough II)
- Sites of Local Importance

The London Plan identifies the need to protect biodiversity and to provide opportunities for access to nature. The Mayor's Biodiversity Strategy sets out criteria and procedures for identifying such land for protection in Local Development Frameworks. A London Wildlife Sites Board (LWSB) has been established to provide support and guidance on the selections of SINCs.

The boundaries and site grades reflect the most recent consideration of each site, details of which are available from London borough councils. Note that boundaries and grades may change as new information becomes available. For further explanations of the designations please see the "Supporting Information" annex.

Areas of Deficiency (AoD) are defined as built-up areas more than one kilometre actual walking distance from an accessible Metropolitan or borough site. AoD areas can be seen on the SINC map.

GiGL manage a **dataset of spaces designated as public open space categorised according to a site hierarchy documented in The London Plan (Table 7.2)**. Information on public open spaces sites are displayed within the open space table.

Citations

Citations currently available for SINCs within the search area can be seen on the following pages.

Please note that the content of SINC citations is reviewed periodically and that species referred to in the citations may not be present on site today. Citations may have been written based on data not held by GiGL.



| Metropolitan | |
|-----------------|---|
| Site Reference: | M009 |
| Site Name: | Ruislip Woods and Poor's Field |
| Summary: | One of London's two National Nature Reserves, this site includes a large area of ancient woodlands, as well as heathland and grassland. |
| Grid ref: | TQ 085 895 |
| Area (ha): | 344.42 |
| Borough(s): | Hillingdon |
| Habitat(s): | Acid grassland, Ancient woodland, Heathland, Pond/lake, Reed bed |
| Access: | Free public access (all/most of site) |
| Ownership: | London Borough of Hillingdon |

The largest block of ancient woodland in London, with adjacent areas of acid grassland, heathland and wetlands. The woodland, which is divided into Park Wood, Copse Wood, Mad Bess Wood and Bayhurst Wood, is varied but predominantly consists of old coppice-with-standards, and is particularly interesting for the occurrence of both pedunculate and sessile oaks (Quercus robur, Q. petraea). The mixture of hornbeam (Carpinus betulus) and beech (Fagus sylvatica) in places is also unusual. Locally uncommon plant species include wild service-tree (Sorbus torminalis), common cow-wheat (Melampyrum pratense), southern woodrush (Luzula forsteri) and moschatel (Adoxa moschatellina). The heathland at Poor's Field consists of fescues (Festuca spp.) and tufted hair-grass (Deschampsia cespitosa), with heather (Calluna vulgaris), dwarf gorse (Ulex minor), the rare petty whin (Genista anglica), heath-grass (Danthonia decumbens) and heath speedwell (Veronica officinalis). Ruislip Lido is a substantial body of open water, with a reed bed at the northern end and fairly diverse marginal vegetation.

The avifauna of the site is diverse, with breeding sparrowhawk, tawny owl and occasionally woodcock and wood warbler. There is also an important invertebrate fauna including several nationally rare and scarce species. One of London's most important sites for specially-protected bats (with at least nine species recorded) and reptiles. Most of the site is a National Nature Reserve. Free public access. Ruislip Woods won a Green Flag Award for 2006/7.

| Site first notified: | 01/04/1986 | Boundary last changed: | 30/11/2005 |
|-----------------------|------------|------------------------|------------|
| Citation last edited: | 14/08/2006 | Mayor Agreed: | 25/11/2002 |
| Defunct: | Ν | | |
| Last Updated: | 05/04/2007 | | |

| Metropolitan | |
|-----------------|---|
| Site Reference: | M134 |
| Site Name: | Potter Street Hill North Pasture |
| Summary: | A small field of flower-rich grassland with perhaps the largest population of devil's-bit scabious in London. |
| Grid ref: | TQ 103 916 |
| Area (ha): | 1.13 |
| Borough(s): | Hillingdon |
| Habitat(s): | Unimproved neutral grassland |
| Access: | Can be viewed from adjacent paths or roads only |
| Ownership: | School |

A small site containing herb-rich neutral grassland over London Clay. The characteristic plant community includes perhaps the strongest population of devil's-bit scabious (Succisa pratensis) in London. Other typical species of unimproved meadows include betony (Stachys officinalis) and pepper-saxifrage (Silaum Silaus). Owned by a school, this site has considerable educational potential. A view into the site can be obtained from the enclosed footpath between Potter Street Hill and Watford Road which passes its northern edge.

| Site first notified: | 19/10/1993 | Boundary last changed: | 01/03/1994 |
|-----------------------|------------|------------------------|------------|
| Citation last edited: | 12/10/2005 | Mayor Agreed: | 25/11/2002 |
| Defunct: | Ν | | |
| Last Updated: | 20/02/2007 | | |



| Borough Grade I | |
|-----------------|--|
| Site Reference: | HiBI02 |
| Site Name: | Haydon Hall Meadows |
| Summary: | A series of lightly cattle-grazed meadows, an orchard and river corridor in the grounds of Haydon Hall. |
| Grid ref: | TQ 107 893 |
| Area (ha): | 9.55 |
| Borough(s): | Hillingdon |
| Habitat(s): | Amenity grassland, Bare ground, Hedge, Orchard, Running water, Scattered trees, Scrub, Secondary woodland, Semi-improved neutral grassland, Unimproved neutral grassland |
| Access: | Access on public footpaths only |
| Ownership: | London Borough of Hillingdon and Private |

A series of lightly cattle-grazed meadows in the south of the site display an excellent meadow flora including plentiful sneezewort (Achillea ptarmica) and common knapweed (Centaurea nigra), devil's-bit scabious (Succisa pratensis), agrimony (Agrimonia eupatoria), red bartsia (Odontites vernus) and meadowsweet (Filipendula ulmaria). Trees and outgrown hedges include pedunculate oak (Quercus robur), field maple (Acer campestre), blackthorn (Prunus spinosa), common hawthorn (Crataegus monogyna), hybrid hawthorn (C. x macrocarpa), field rose (Rosa arvensis) and hornbeam (Carpinus betulus). A wide variety of insects use these good quality grasslands including diverse solitary bees, hoverflies and dung-beetles and butterflies such as common blue and meadow brown. The birdlife includes goldfinch and chiffchaff.

To the south-west, a densely overgrown orchard appears to have remained unmanaged for some years.

The river corridor to the north and west contains a variety of habitats, including riparian scrub and trees, a copse and rough grassland. A broad tree and scrub-lined permissive footpath may be a remnant of an ancient trackway.

Site first notified: 01/01/1988 Boundary last changed: 08/09/2005

Citation last edited: 29/12/2005 Mayor Agreed:

Defunct: N

Last Updated: 06/01/2006



| Borough Grade I | |
|-----------------|--|
| Site Reference: | HiBI09 |
| Site Name: | Haste Hill Golf Course, Northwood Golf Course and Northwood Park |
| Summary: | Golf courses close to Ruislip Woods, with woodland and grassland areas. |
| Grid ref: | TQ 088 905 |
| Area (ha): | 12.5 |
| Borough(s): | Hillingdon |
| Habitat(s): | Acid grassland, Amenity grassland, Bare ground, Coniferous woodland, Hedge, Roughland, Running water, Scattered trees, Scrub, Secondary woodland, Semi- improved neutral grassland, Wet grassland, Wet woodland/carr |
| Access: | Access on public footpaths only |
| Ownership: | London Borough of Hillingdon and Private |

These two golf courses, close to Ruislip Woods National Nature Reserve, contain numerous small areas of valuable wildlife habitat. As with many pay-and-play golf courses, the 'roughs' have been largely removed with the aim of speeding up the game. Nevertheless, small woods and areas of species-rich grassland occur at the edges and as 'islands' interspersed among the close-mown fairways. Small areas of acid grassland occur on both courses. Characteristic flora includes heath bedstraw (Gallium saxatile), sheep's sorrel (Rumex acetosella), mouse-ear hawkweed (Pilosella officinarum) and, on Northwood Golf Course, occasional heather (Calluna vulgaris).

The woodlands include silver birch (Betula pendula), downy birch (Betula pubescens), pedunculate and sessile oaks (Quercus robur and Q. petraea), Scots pine (Pinus sylvestris) and a range of exotic trees such as Pride-of-India (Koelreuteria paniculata). Bracken (Pteridium aquilinum) is locally common in these areas. Several small streams cross the golf courses. Their banks are home to fool's water-cress (Apium nodiflorum), water mint (Mentha aquatica), water chickweed (Myosoton aquaticum) and male fern (Dryopteris filix-mas). These streams enter the National Nature Reserve to the west and it is of particular importance that they remain free of pollution arising from herbicides or other chemical applications.

A small woodland triangle to the south west of the site has an interesting wetland flora around a flush. Unusually, galingale (Cyperus longus) grows amongst the brambles (Rubus fruticosus agg.), and soft rush (Juncus effusus), hard rush (J. inflexus) and fleabane (Pulicaria dysenterica) are locally abundant. The site supports a varied fauna. Hornets (Vespa crabro) occur at the site, and there is a range of good standing dead wood, which is particularly valuable for invertebrates and birds such as woodpeckers. The area is also important for reptiles.

| Site first notified: | 01/01/1988 | Boundary last changed: | 01/03/1994 |
|-----------------------|------------|------------------------|------------|
| Citation last edited: | 29/12/2005 | Mayor Agreed: | |
| Defunct: | Ν | | |
| Last Updated: | 20/04/2006 | | |



| Borough Grade I | |
|-----------------|---|
| Site Reference: | HwBI03 |
| Site Name: | Pinnerwood Park and Ponds |
| Summary: | A large private golf course with an ancient wood, flower-rich acid grassland and a number of ponds. |
| Grid ref: | TQ 113 914 |
| Area (ha): | 56.51 |
| Borough(s): | Harrow |
| Habitat(s): | Acid grassland, Ancient woodland, Heathland, Hedge, Pond/lake, Scrub, Secondary woodland, Semi-improved neutral grassland, Wet ditches, Wet grassland |
| Access: | Access on public footpaths only |
| Ownership: | Private |

This large private golf course contains a good variety of habitats, including the two-hectare ancient Pinner Wood. Oak (Quercus robur) and ash (Fraxinus excelsior) dominate the canopy in the east, while further west hornbeam (Carpinus betulus) becomes the dominant tree. The shrub layer of holly (Ilex aquilifolium) and coppiced hazel (Corylus avellana) is rather sparse. The ground flora includes broad buckler-fern (Dryopteris dilatata), violets (Viola spp.), pendulous sedge (Carex pendula) and field rose (Rosa arvensis). Violet helleborine (Epipactis purpurea), an orchid very rare in London, has been recorded in the past, but not for many years.

Away from the woodland, the roughs contain some rich acid grassland. The locally scarce devil's-bit scabious (Succisa pratensis) occurs, and there are heather (Calluna vulgaris) remnants in one of the roughs. There are a number of ponds on the golf course, including older ponds and a more recent flood-alleviation scheme. Great crested newts and grass snakes have been recorded in recent years. Yellow loosestrife (Lysimachia vulgaris) and false fox-sedge (Carex otrubae) occur in damp areas around the ponds.

Public access is restricted to a bridleway running across the golf course.

| Site first notified: | 01/01/1989 | Boundary last changed: | 09/10/2003 |
|-----------------------|------------|------------------------|------------|
| Citation last edited: | 27/02/2004 | Mayor Agreed: | |
| Defunct: | Ν | | |
| Last Updated: | 28/04/2006 | | |



| Borough Grade II | |
|------------------|--|
| Site Reference: | HiBII15 |
| Site Name: | Old Pumping Station Field |
| Summary: | A large area of rich grassland with good native hedgerow boundaries. |
| Grid ref: | TQ 085 892 |
| Area (ha): | 8.1 |
| Borough(s): | Hillingdon |
| Habitat(s): | Hedge, Scattered trees, Scrub, Semi-improved neutral grassland, Unimproved neutral grassland |
| Access: | Free public access (part of site) |
| Ownership: | Private |

The Old Pumping Station field is a large area of rich grassland, bounded by good native hedgerows, immediately adjacent to Ruislip Woods National Nature Reserve. Yellow rattle (Rhinanthus minor) grows in sporadic clumps amongst a sward dominated by false oat-grass (Arrhenatherum elatius) and red fescue (Festuca rubra), along with soft brome (Bromus hordaceus), meadow barley (Hordeum secalinum) and tufted hair-grass (Deschampsia cespitosa). Leguminous plants such as red clover (Trifolium pratense), common vetch (Vicia sativa), tufted vetch, (Vicia cracca), hairy tare (Vicia hirsuta) and meadow vetchling (Lathyrus pratensis) are abundant, and other wild flowers include long-stalked cranesbill (Geranium columbinum), greater stitchwort (Stellaria holostea) and common knapweed (Centaurea nigra). Pedunculate oak (Quercus robur) grows in the hedges along with grey willow (Salix cinerea), bramble (Rubus fruticosus), field rose (Rosa arvensis) and dog rose (R. canina).

The site of the old storage tank is a scrubbed-over pit with marshy mud and standing water, but with no apparent wetland vegetation. The scrub is mainly grey willow (Salix cinerea), with pedunculate oak, elder (Sambucus nigra) and silver birch (Betula pendula). Although botanically poor, this area provides a number of potentially high-value invertebrate habitats, including semi-submerged large-section timber, permanent mud in deep shade and still, humid air.

The field to the north-east has abundant red fescue and crested dog's-tail (Cynosurus cristatus), along with greater bird's-foot-trefoil (Lotus pedunculatus) and, in a seasonally damp area, lesser spearwort (Ranunculus flammula). Hedgerow remnants include hybrid hawthorn (Crataegus x macrocarpa). The meadow to the west has a hedge of firethorn (Pyracantha sp.) on its eastern boundary, and is mainly dominated by tufted hair-grass. There are a number of elderly oaks with standing decaying timber, and a clump of grey willows is thought to conceal a wet area on its west margin.

The entire site is particularly insect rich, and notable for the presence of the ringlet butterfly. Common blue, large skipper and meadow brown fly here along with the day-flying narrow-bordered five-spot burnet moth (Zygaena lonicerae). There are numerous robber-flies (Asilidae) flying in this grassland, and this is taken as an indicator of the richness and stability of the invertebrate fauna on which these large predators depend. The site is valuable for reptiles.

The site is accessible to the public apart from the small field on the west margin.

| Site first notified: | 01/01/1988 | Boundary last changed: | 08/09/2005 |
|-----------------------|------------|------------------------|------------|
| Citation last edited: | 27/03/2006 | Mayor Agreed: | |
| Defunct: | Ν | | |
| Last Updated: | 27/03/2006 | | |



| Borough Grade II | |
|------------------|--|
| Site Reference: | HiBII20 |
| Site Name: | Gravel Pit, Northwood |
| Summary: | Heavily wooded gravel diggings, excellent for quiet walks. |
| Grid ref: | TQ 084 913 |
| Area (ha): | 5.9 |
| Borough(s): | Hillingdon |
| Habitat(s): | Amenity grassland, Ruderal, Scrub, Secondary woodland, Semi-improved neutral grassland |
| Access: | Free public access (all/most of site) |
| Ownership: | London Borough of Hillingdon |

These heavily wooded gravel diggings lie on the junction of two main roads, and the pathways through the woods are heavily used by the public.

The woods are dominated by sycamore (Acer pseudoplatanus) and common hawthorn (Crataegus monogyna), interspersed with beech (Fagus sylvatica), aspen (Populus tremula) and pedunculate oak (Quercus robur), some of which clearly pre-date the other trees. The densely scrubbed woodland floor is criss-crossed with paths, and the woodland edges have a relatively rich flora. Species occurring commonly here include ground elder (Aegopodium podagraria), black horehound (Ballota nigra), bracken (Pteridium aquilinum), clustered dock (Rumex conglomeratus) and violets (Viola sp.). The shadier areas are home to lords-and-ladies (Arum maculatum), enchanter's nightshade (Circaea lutetiana), and broad buckler-fern (Dryopteris dilatata). Cherry laurel (Prunus laurocerasus) is becoming invasive at the site.

Damper areas resulting from old gravel workings provide potential habitats for a wide range of invertebrates, and there is good quality decaying timber in some of the standing pedunculate oaks.

The narrow extensions to the site bordering Copse Wood Way to the west are dominated by even-aged hornbeams (Carpinus betulus), with pedunculate oaks and false acacia (Robinia pseudoacacia). There is a dense shrub layer including holly (Ilex aquifolium), and a ground flora comprising extensive ivy (Hedera helix) and bracken, interspersed with dog rose (Rosa canina) and white-flowered cyclamen (Cyclamen hederifolia).

| Site first notified: | 01/01/1988 | Boundary last changed: | 08/09/2005 |
|-----------------------|------------|------------------------|------------|
| Citation last edited: | 15/12/2005 | Mayor Agreed: | |
| Defunct: | Ν | | |
| Last Updated: | 20/04/2006 | | |



| Borough Grade II | |
|------------------|---|
| Site Reference: | HiBII22 |
| Site Name: | St Vincent's Hospital Meadows |
| Summary: | Two fields, one each side of St Vincent's Hospital, rich in butterflies and grasshoppers. |
| Grid ref: | TQ 096 897 |
| Area (ha): | 2.37 |
| Borough(s): | Hillingdon |
| Habitat(s): | Amenity grassland, Bare ground, Roughland, Ruderal, Scattered trees, Scrub, Semi- improved neutral grassland |
| Access: | Free public access (part of site) |
| Ownership: | Private |

This site comprises two fields, one each side of St Vincent's Hospital. The field to the north is dominated by Yorkshire fog (Holcus lanatus) and tufted hair-grass (Deschampsia cespitosa), along with meadow foxtail (Alopecurus pratensis) common couch (Elytrigia repens) and occasional giant fescue (Festuca gigantea). Other flora includes great willowherb (Epilobium hirsutum), red clover (Trifolium pratense) and tufted vetch (Vicia cracca). Extensive bramble (Rubus fruticosus agg.) scrub is patchily dominant, and field maple (Acer campestre) occurs occasionally. The field is rich in grasshoppers, and meadow brown, gatekeeper and common blue butterflies can be found here.

The origin of the vegetated mound at the east end is unknown, but may have arisen as the result of rubble or soil dumping. Scrub, scattered trees and grassland encircle the east of the hospital buildings and border Park Wood (part of Ruislip Woods National Nature Reserve) and Haste Hill Golf Course, to the west and north respectively.

The field to the south-west of the hospital is dominated by false oat-grass (Arrhenatherum elatius) and perennial rye-grass (Lolium perenne) and has a relatively rich flora including abundant crested dog's-tail (Cynosurus cristatus), as well as pineappleweed (Matricaria discoidea), common centaury (Centaurium erythrea), red clover, smooth tare (Vicia tetrasperma) and small melilot (Melilotus indica). Its southern aspect and path-side bare soil provide nesting sites for solitary wasps and other invertebrates, while pedunculate oaks (Quercus robur), dog rose (Rosa canina) and common hawthorns (Crataegus monogyna) grow on the southern edge, probably remnants of an old hedge. The provides resources such as nectar for scarce woodland insects associated with the National Nature Reserve.

There is de facto access from Wiltshire Lane and Heatherfold Way.

| Site first notified: | 01/01/1988 | Boundary last changed: | 08/09/2005 |
|-----------------------|------------|------------------------|------------|
| Citation last edited: | 27/03/2006 | Mayor Agreed: | |
| Defunct: | Ν | | |
| Last Updated: | 27/03/2006 | | |



| Borough Grade II | |
|------------------|--|
| Site Reference: | HiBII23 |
| Site Name: | Hog's Back Open Space (formerly Borough Hill) |
| Summary: | A hillside site where narrow paths wind through dense woodland, grassland and scrub. |
| Grid ref: | TQ 102 909 |
| Area (ha): | 4.24 |
| Borough(s): | Hillingdon |
| Habitat(s): | Acid grassland, Amenity grassland, Roughland, Scattered trees, Scrub, Secondary woodland, Tall herbs |
| Access: | Free public access (all/most of site) |
| Ownership: | London Borough of Hillingdon |

Narrow paths wind through dense woodland, grassland and scrub on this steep hillside. The woodland is dominated by pedunculate oak (Quercus robur), bramble (Rubus fruticosus agg.) and common hawthorn (Crataegus monogyna). Honeysuckle (Lonicera periclymenum) is abundant. Common nettle (Urtica dioica) and dog rose (Rosa canina) grow in the woods, along with wood avens (Geum urbanum) and rosebay willowherb (Chamerion angustifolium). Nectar-feeding insects are abundant on brambles in sunny but sheltered situations. The grassland at the top of the hill is quite rich in wild flowers, within a sward of fine grasses including sheep's fescue (Festuca ovina), suggesting dry, acid soils. A variety of trees, shrubs and patches of tall herbs are scattered throughout the grassland. These include rosebay willowherb, rowan (Sorbus aucuparia) and naturalised orange ball tree (Buddleja globosa).

| Site first notified: | 01/01/1988 | Boundary last changed: | 01/01/1988 |
|-----------------------|------------|------------------------|------------|
| Citation last edited: | 15/12/2005 | Mayor Agreed: | |
| Defunct: | Ν | | |
| Last Updated: | 30/12/2005 | | |

| Borough Grade II | |
|------------------|---|
| Site Reference: | HiBII24 |
| Site Name: | Potter Street Hill |
| Summary: | A meadow, spinney and other habitats within the grounds of St John's School. |
| Grid ref: | TQ 106 913 |
| Area (ha): | 2.67 |
| Borough(s): | Hillingdon |
| Habitat(s): | Bare ground, Hedge, Pond/lake, Scattered trees, Semi-improved neutral grassland, Wet ditches, Wet grassland |
| Access: | Can be viewed from adjacent paths or roads only |
| Ownership: | Private |

This site consists of a variety of good wildlife habitats within the grounds of St John's School, and is used by the school as an educational resource. The southern part of the site is a meadow with a good flora, surrounded by hedgerows with emergent pedunculate oaks (Quercus robur) and a shady ditch. The grassland is predominantly cat's-tail (Phleum pratense), with false oat-grass (Arrhenatherum elatius) and tufted hair-grass (Deschampsia cespitosa). Wild flowers include purple loosestrife (Lythrum salicaria), fleabane (Pulicaria dysenterica), agrimony (Agrimonia eupatoria), abundant common knapweed (Centaurea nigra), greater bird's-foot-trefoil (Lotus pedunculatus) and figwort (Scrophularia nodosa).

A dense outgrown hedgerow along the eastern edge of the school grounds, alongside the road, expands towards its north end to form a spinney, and also extends westwards around the school sports grounds. Large pedunculate oaks provide standing decaying timber of value to invertebrates. The dense scrub and extensive blankets of ivy (Hedera helix) provide ample cover for birds and their nests. Flora includes native bluebells (Hyacinthoides non-scripta), wood dock (Rumex sanguineus) and greater stitchwort (Stellaria holostea). Within the north area of the spinney are two ponds connected by a weir. The wetland flora includes numerous yellow iris (Iris pseudacorus) and red bistort (Persicaria amplexicaulis), as well as soft rushes (Juncus effusus) and clustered dock (Rumex conglomeratus). The ponds are inhabited by moorhens.

Site first notified: 01/01/1988 Boundary last changed: 01/01/1988

Citation last edited: 06/01/2006 Mayor Agreed:

Defunct: N

Last Updated: 06/01/2006



| Borough Grade II | |
|------------------|---|
| Site Reference: | HiBII44 |
| Site Name: | Fore Street Meadows |
| Summary: | Two grazing fields, hedgerow and a section of public footpath situated on the east margin of Park Wood. |
| Grid ref: | TQ 099 891 |
| Area (ha): | 2.82 |
| Borough(s): | Hillingdon |
| Habitat(s): | Hedge, Roughland, Ruderal, Scattered trees, Semi-improved neutral grassland, Wet ditches |
| Access: | Access on public footpaths only |
| Ownership: | London Borough of Hillingdon |

This site comprises two grazing fields situated on the east margin of Park Wood (part of Ruislip Woods National Nature Reserve).

The grassland is dominated by false-oat grass (Arrhenatherum elatius) with cock's-foot (Dactylis glomerata) and common couch (Elytrigia repens), with tall wild flowers including curled dock (Rumex conglomeratus), bittersweet (Solanum dulcamara), great willowherb (Epilobium hirsutum), and hogweed (Heracleum sphondylium). The hedges are dominated by common hawthorn (Crataegus monogyna) and blackthorn (Prunus spinosa), with some elder (Sambucus nigra). There are a few large pedunculate oak (Quercus robur) trees in the horse-grazed northern meadow, including large standing dead and decaying timber. The southern meadow contains scattered scrub and tall herbs. There is a recently re-laid hedge by the roadside to the south. Situated near the south end is a vegetated ditch and associated damp areas, dominated by floating sweet-grass (Glyceria fluitans), which are likely to provide habitats for a range of invertebrates. The value of these fields is augmented by their proximity to Park Wood, part of Ruislip Woods National Nature Reserve, to which they provide an important buffer zone. In addition to habitats for saproxylic and wetland invertebrates the site is likely to provide nectar sources and swarming sites for uncommon insects associated with the ancient woodland.

The site is inaccessible to the public, except for the public footpath which bisects it. This is lined with common flora such as cow parsley (Anthriscus sylvestris).

| Site first notified: | 08/09/2005 | Boundary last changed: | 08/09/2005 |
|-----------------------|------------|------------------------|------------|
| Citation last edited: | 15/12/2005 | Mayor Agreed: | |
| Defunct: | Ν | | |
| Last Updated: | 20/04/2006 | | |



| Borough Grade II | |
|------------------|---|
| Site Reference: | HiBII45 |
| Site Name: | Northwood Railway Cutting |
| Summary: | Wide banks on both sides of railway lines at Northwood. |
| Grid ref: | TQ 091 920 |
| Area (ha): | 3.18 |
| Borough(s): | Hillingdon |
| Habitat(s): | Scattered trees, Scrub, Semi-improved neutral grassland |
| Access: | Can be viewed from adjacent paths or roads only |
| Ownership: | London Underground Ltd |

This wooded railway cutting extends along the Metropolitan line northwards beyond the London boundary into Hertfordshire. Wide banks of both sides of the railway support areas of regenerating woodland, scrub and rough grassland. Dominant woodland trees include small pedunculate oaks (Quercus robur) and ash (Fraxinus excelsior), interspersed with a few mature standards. There is an understorey of common hawthorn (Crataegus monogyna), elder (Sambucus nigra) and blackthorn (Prunus spinosa) with occasional dogwood (Cornus sanguinea). The ground flora includes ground ivy (Glechoma hederaceae), herb robert (Geranium robertianum), lords-and-ladies (Arum maculatum), dog rose (Rosa canina) and Michaelmas daisy (Aster sp.). The site is not accessible to the public, but it may be viewed in part from the boundaries, and provides a pleasant rural view from passing trains.

| Site first notified: | 08/09/2005 | Boundary last changed: | 08/09/2005 |
|-----------------------|------------|------------------------|------------|
| Citation last edited: | 03/01/2006 | Mayor Agreed: | |
| Defunct: | Ν | | |
| Last Updated: | 06/01/2006 | | |



| Borough Grade II | |
|------------------|---|
| Site Reference: | HwBII08 |
| Site Name: | Grim's Ditch and Pinner Green |
| Summary: | Woodland associated with ancient earthworks, combining archaeological and historic interest with good wildlife habitat. |
| Grid ref: | TQ 114 905 |
| Area (ha): | 2.77 |
| Borough(s): | Harrow |
| Habitat(s): | Hedge, Scrub, Secondary woodland, Semi-improved neutral grassland, Veteran trees, Wet ditches |
| Access: | Free public access (all/most of site) |
| Ownership: | London Borough of Harrow |

Most of Pinner Green is wooded. Although the woodlands are predominantly secondary, some large oak (Quercus robur) trees, on Grim's Dyke and elsewhere, hint at older origins. To the north, there is a dense woodland understorey, interspersed with several regularly-used paths. The ground flora includes hedge woundwort (Stachys sylvatica), wood avens (Geum urbanum), raspberry (Rubus idaeus) and honesty (Lunaria annua).

The hedgerow and ditch on the west margin arise from the historical diversion of a stream from its original course (which can still be discerned in the centre of the park). Except at the north end, the hedgerow is fenced on both sides, providing undisturbed, sheltered habitat at the streamside. Brooklime (Veronica beccabunga) grows on the streamside, and lords-and-ladies (Arum maculatum) is found in the hedgerow.

The mechanical turning of former allotments to the west of Dingles Chalkmines in 2003 has produced a diverse area of roughland. Wood speedwell (Veronica montana), scarlet pimpernel (Anagallis arvensis), tansy (Tanacetum vulgare), and feverfew (T. parthenium) grow amongst Russian comfrey (Symphytum x uplandicum), hedge woundwort and a range of other ruderal plants. Grim's Dyke is a Scheduled Ancient Monument. More recently, Dingles Chalk Mines have been identified as a Regionally Important Geological Site.

The site is freely accessible to the public.

| Site first notified: | 01/01/1989 | Boundary last changed: | 09/10/2003 |
|-----------------------|------------|------------------------|------------|
| Citation last edited: | 02/02/2006 | Mayor Agreed: | |
| Defunct: | Ν | | |
| Last Updated: | 28/04/2006 | | |



Borough Grade II

| 2010491.014401. | |
|-----------------|---|
| Site Reference: | HwBII13 |
| Site Name: | The Grail Centre |
| Summary: | The grounds of a religious retreat with a number of wildlife-friendly features. |
| Grid ref: | TQ 117 902 |
| Area (ha): | 3.3 |
| Borough(s): | Harrow |
| Habitat(s): | Acid grassland, Orchard, Pond/Lake, Secondary woodland, Semi-improved neutral grassland |
| Access: | No public access |
| Ownership: | Archdiocese of Westminster (Roman Catholic Diocese of Westminster) |
| | |

Site Description:

The site is run as a retreat, and there are a number of scattered cabins for residents around the site. The site managers have adopted a Nature Conservation Management Plan, prepared by the former

London Ecology Unit.

There is a formal area in the east of the site with intermixed exotic plantings, 'wild' patches and small areas of mixed woodland including hornbeam (Carpinus betulus). Parsley-piert (Aphanes arvensis), an uncommon plant in London, is found along the paths in the more open areas. A small, recently created pond suffers pseudacorus) and bogbean (Menyanthes trifoliata).

In the west of the site is an area of species-rich acid grassland, as well as amenity grassland, hedgerows with trees, a small orchard and bee hives. Flowers in the acid grassland include birds-foot trefoil (Lotus corniculatus), tormentil (Potentilla erecta) and goat's-beard (Tragopogon pratensis) in a sward dominated by bents (Agrostis spp.). Bats and tawny owls have been reported from this secluded, historic site. The site is not accessible to the public.

Site first notified:09/10/2003Boundary last changed:07/10/2004Citation last edited:24/03/2006Mayor Agreed:Defunct:NLast Updated:06/11/2006



| Local | |
|-----------------|--|
| Site Reference: | HiL02 |
| Site Name: | River Pinn near Eastcote |
| Summary: | The River Pinn flows through a series of open spaces, forming a green corridor. |
| Grid ref: | TQ 109 890 |
| Area (ha): | 11.52 |
| Borough(s): | Hillingdon |
| Habitat(s): | Amenity grassland, Bare ground, Running water, Scattered trees, Scrub, Secondary woodland, Semi-improved neutral grassland, Tall herbs |
| Access: | Free public access (all/most of site) |
| Ownership: | London Borough of Hillingdon |

The River Pinn enters Hillingdon from Cuckoo Hill Walk in West Harrow, and flows through a series of open spaces, forming a valuable green corridor. The section described here runs through Cheney Street Open Space, Long Meadow Open Space and Haydon Hall Park, and continues on the enter Kings College Playing Fields.

Cheney Street Open Space is an area of rough grassland encircled by sheltering trees and scrub, with the scrub-shaded River Pinn following the south and east margins. Meadowsweet (Filipendula ulmaria) is common in the grassland, and native bluebells (Hyacinthoides non-scripta) grow beneath the marginal treeline. Trees and shrubs include field maple (Acer campestre), hazel (Corylus avellana), hawthorn (Crataegus monogyna) and white poplar (Populus alba). Other flora includes cow parsley (Anthriscus sylvestris), dog rose (Rosa canina), hogweed (Heracleum sphondylium) and male fern (Dryopteris filix-mas). The large red damselfly (Pyrrhosoma nymphula), chiffchaff and orange tip butterfly also occur here. Long Meadow Open Space comprises a mosaic of copses, scrub, rough grass and amenity grassland. Common blue damselfly, goldcrest and chaffinch occur here and there are small fish in the river. Trees include field maple and horse-chestnut (Aesculus hippocastanum), and a good range of wild flowers includes lesser burdock (Arctium minus), goat's-rue (Galega officinalis), germander speedwell (Veronica chamaedrys) and wood speedwell (V. montana).

This site is freely accessible to the public and includes part of the 'Celandine route', a designated walking route extending to the Grand Union Canal.

| Site first notified: | 01/01/1988 | Boundary last changed: | 08/09/2005 |
|-----------------------|------------|------------------------|------------|
| Citation last edited: | 16/03/2007 | Mayor Agreed: | |
| Defunct: | Ν | | |
| Last Updated: | 16/03/2007 | | |



Local

| Local | |
|-----------------|--|
| Site Reference: | HwL01 |
| Site Name: | River Pinn at West Harrow |
| Summary: | An attractive river corridor with a good range of wildlife habitats. |
| Grid ref: | TQ 115 890 |
| Area (ha): | 1.17 |
| Borough(s): | Harrow |
| Habitat(s): | Running water, Scrub, Secondary woodland, Semi-improved neutral grassland, Wet grassland |
| Access: | Free public access (part of site) |
| Ownership: | London Borough of Harrow |

Site Description:

The western part of the site incorporates woodland, scrub and damp grassland as well as a section of the River Pinn and its riparian habitats. The river continues westwards over the borough Boundary into Hillingdon, where it is described as the River Pinn at Ruislip. There is a significant decaying timber component in the woodlands, which is likely to be important for fungi and invertebrates. Hazel
(Corylus avellana), which is uncommon in Harrow, grows in the woodland amongst oak (Quercus robur), ash flora includes (Scrophularia auriculata) grows on the river bank.

The allotments are a well used site with marginal and interstitial trees, shrubs, bare earth and rough grassland providing de facto extensions to adjacent woodland and other habitats. Upstream the river through a small amenity grassland area planted with horse-chestnuts (Aesculus hippocastanum). Curled pondweed (Potamogeton crispus) occurs in this section of river. Harts-tongue fern (Phyllitis scolopendrium) and a range of other plants grow from the concrete revetments in the upstream inaccessible sectionl, whilst further upstream the river runs through a large roadside channel after emerging from a secluded, heavily wooded area which includes native hedgerow features and a number of large oak trees. The western is freely accessible during daylight hours. There is also public access to Cuckoo Hill

Allotments from a public footpath, and to the section from Lloyd Court to Eastcote Road. The section east of

Cannon Lane is inaccessible, but viewable from roadside and Grove estate. There is no access to sections from Cranbourne Drive to Lloyd Court or Eastcote Road to Cannon Lane.

| Site first notified: | 01/01/1989 | Boundary last changed: | 30/06/2006 |
|-----------------------|------------|------------------------|------------|
| Citation last edited: | 26/02/2007 | Mayor Agreed: | |
| Defunct: | Ν | | |
| Last Updated: | 16/03/2007 | | |



Local

| Site Reference: | HwL12 |
|-----------------|---|
| Site Name: | Woodridings Brook |
| Summary: | A section of brook with a shady footpath beside it. |
| Grid ref: | TQ 120 906 |
| Area (ha): | 0.27 |
| Borough(s): | Harrow |
| Habitat(s): | Hedge, Running water, Scattered trees, Scrub |
| Access: | Free public access (all/most of site) |

Ownership:

Site Description:

The Woodridings Brook is a tributary to the River Pinn. This section of the brook has varied habitats, including shallows and shingle banks. Adjacent habitats include a good range of trees and shrubs.

Amongst
and oaknative hedgerow plants such as field maple (Acer campestre), blackthorn (Prunus spinosa)
(Quercus robur), there are a number of alder trees (Alnus glutinosa), which are very scarce
site supports good populations of garden birds, and grey wagtails can sometimes be seen
exposed river shingles. The damp and shady areas are likely to be important for a range of
A shady public footpath runs along the length of the site.

| Site first notified: | 09/10/2003 | Boundary last changed: | 07/10/2004 |
|-----------------------|------------|------------------------|------------|
| Citation last edited: | 04/04/2007 | Mayor Agreed: | |
| Defunct: | Ν | | |

Last Updated: 06/06/2007



3.2 Important Geological/Geomorphological Sites

Introduction

The designation in planning documents of regionally important geological sites (RIGS) and locally important geological sites (LIGS) is one way of recognising and protecting important geodiversity and landscape features for future generations to enjoy. Geodiversity is defined as:

'the variety of rocks, fossils, minerals, landforms, soils and natural processes, such as weathering, erosion and sedimentation, that underlie and determine the character of our natural landscape and environment' (London Plan).

RIGS are currently the most important designated places for geology and geomorphology outside statutorily protected land such as SSSIs. They are equivalent to Sites of Metropolitan Importance for nature conservation. In London, RIG Sites have been selected by South London RIGS, North West London RIGS and GeoEssex (voluntary organisations) but have yet to be formally designated in Greater London.

The London boroughs may also designate certain areas as being of local interest for their geodiversity - LIGS. The boundaries and site grades reflect the most recent consideration of each site. Details may change as new information becomes available.

More information can be found in the London Plan Supplementary Planning Guidance *London's Foundations* (March 2012) and the *London Geodiversity Action Plan*, both available from www.londongeopartnership.org.uk.

Citations

RIGS/LIGS are designated in four stages:

- **Potential RIGS/LIGS** are those recommended by the London Geodiversity Partnership and identified in *London's foundations*
- **Recommended RIGS** are those recommended by the London Geodiversity Partnership, identified in *London's foundations* and have been through a consultation process with the London boroughs and relevant landowners
- **Proposed RIGS/LIGS** are those included in draft Borough Development Plan Documents
- Adopted RIGS/LIGS are those identified in adopted Borough Development Plan Documents

Please note that the content of RIGS and LIGS citations is reviewed periodically by the London Geodiversity Partnership.



Proposed Regionally Important Geological / Geomorphological Site

(proposed in London Borough of Hillingdon Pre-submission Core Strategy, February 2011)

| GLA 29 |
|-----------------------------------|
| The Gravel Pits, Northwood |
| Former quarry works |
| Lambeth Group, Paleocene – Eocene |
| |
| TQ 083 913 |
| 5.47 |
| London Borough of Hillingdon |
| London Borough of Hillingdon |
| Open access |
| |

Site Description:

An area of woodland covering old gravel pits in the Lambeth Group. The gravel from these pits was used for several hundred years for road mending in the area. The gravel was described as 'worked out' in 1898 and the area was saved as a public amenity in commemoration of Queen Victoria's diamond jubilee the previous year. The site is very overgrown with very few exposures in the hillocks within the site, largely caused by excavation by animals and/or humans.

| Time Unit: Paleocene | Rock Unit: Lambeth Group |
|----------------------------|---|
| Rock Type: Sand and gravel | Details: Glauconitic sands overlain by grey clays and sands with Brackish fauna and interleaved red and variegated clays and sands |

Geodiversity Topic: Lithostratigraphy; sedimentology; economic geology

Geodiversity Value: Well used local site with information

Date of Last Survey: 14/9/2010



Proposed Regionally Important Geological / Geomorphological Site

(proposed in London Borough of Harrow Core Strategy pre-submission version, April 2011)

| Site Reference: | GLA 36 | | | |
|-----------------|--|--|--|--|
| Site Name: | Pinner Chalk Mines | | | |
| Site Type: | Former mine workings | | | |
| Summary: | Chalk Group/Upnor Formation, Upper Cretaceous/Paleocene | | | |
| | | | | |
| Grid ref: | TQ 11538 90483 | | | |
| Area (ha): | 3.44 | | | |
| Borough(s): | London Borough of Harrow | | | |
| Ownership: | London Borough of Harrow | | | |
| Access: | By request to Council Licensee (ken.kirkman@btinternet.com, or via Harrow & Hillingdon Geological Society) | | | |

Site Description:

Pinner Chalk Mines extend over a large area, with mixed extraction methods recorded from the 14th century. Access is not currently possible. When accessible, it is one of the few locations still existing in London where the Chalk can be examined without being masked by vegetation. It is also important for the extremely rare in situ Hertfordshire Pudding Stone that can be seen in the shaft to the mine and in small roof falls. Its presence allowed the quarry men to utilise the Chalk almost to the top as it provided a hard ceiling. Much of the ground above the mine is not built over. Details of the mine can be found on www.pinnerchalkmine.info and there is a booklet on the geology written by Raymond Gallois, available from the Harrow & Hillingdon Geological Society. It is featured in GA Guide 68.

Stratigraphy and Rock Types:

Time Unit: Upper Cretaceous/Paleocene

Rock Unit: Chalk Group/Upnor & Reading Formations (Lambeth Group)

Rock Type: Chalk with flints/puddingstone Details: Seaford Chalk, Hertfordshire Puddingstone

Geodiversity Topic: Sedimentology; paleontology; lithostratigraphy

Geodiversity Value: Rare regional example of 'deep' chalk mining with well documented history and wide educational value. It is important scientifically for its exceedingly rare in situ exposure of Hertfordshire Pudding Stone.

Date of Last Survey: 24/11/2008



4.0 Species

Species from these categories can be seen on the following pages:

- Internationally or nationally protected species *
- National or London Biodiversity Action Plan (BAP) priority species
- Red Data List species
- Species of Conservation Concern in London
- London Invasive Species Initiative (LISI) species

Note that GiGL does not currently hold comprehensive species data for all areas. Even where data is held, a lack of records for a species in a defined geographical area does not necessarily mean that the species does not occur there – the area may simply not have been surveyed.

Distances and direction to each species record are calculated from the centre-point of a search area. Note that because the resolution of grid references varies between surveys the records with a low grid reference resolution are presented in the Vague Records table.

The species, listed by taxon name, were recorded from a broad range of surveys - from public and species specific surveys to formal surveys carried out during the GLA's rolling survey programme.

Records of bat sightings are presented in the report if found in the search area. Records of bat roosts, if present in the search area, will be found in the confidential species table.

If you would like further information regarding rare, notable and protected species please contact a relevant person listed in the Further Contacts section of this report.

^{*} Protected species are those listed on EC Habitats Directive – Annexes II and IV, EC Birds Directive – Annex I, Conservation (Natural Habitats) Regulations 1994 – Schedules 2 & 5, NERC 2006 Section 41, Wildlife and Countryside Act 1981 (as amended) – Schedules 1, 5 & 8, Protection of Badgers Act 1992



4.1 Protected Species and Species of Conservation Concern

Records in this section come from a variety of planning and conservation designations and are presented here to provide a broad range of information about the search area. GiGL's Recorder Advisory Group have advised on the inclusion of each category and further information about the designations (legal and notable) can be found in the "Supporting Information" annex.

All records in this section were recorded to at least 100 m² accuracy (a six grid reference figure or higher). The total number of occurrences states the number of recorded instances for a species in the search area e.g. one recorded instance of fly orchid (*Ophrys insectifera*) could have a count of 10 individual plants. The maximum occurrence column records either that the species was present "P" or gives a numerical value of the highest count of species recorded in the search area where this is known.

Table 1 Red Data List designation abbreviations used in the species table. Further information on the designations can be found in the annex.

| Designation short name | Designation full name | Designation short name | Designation full name | | | |
|------------------------|-------------------------------------|------------------------|--|--|--|--|
| RL_DataDeficient | IUCN (2001) - Data Deficient | RL_LowerRisk | IUCN (2001) - Lower risk - near threatened | | | |
| RL_CriticalEndangered | IUCN (2001) - Critically endangered | RL_Extinct | IUCN (2001) - Extinct | | | |
| RL_Endangered | IUCN (2001) - Endangered | RL_ExtinctWild | IUCN (2001) - Extinct in the wild | | | |
| RL_Vulnerable | IUCN (2001) - Vulnerable | RL_RegionExtinct | IUCN (2001) - Regionally Extinct | | | |

| Taxon Name | Common Name | Designation | Total number of occurrences | No. of breeding occurrences | Maximum occurrence | Distance (m) of nearest record | Bearing of nearest record | Date of nearest record | Distance (m) of most recent record | Bearing of most recent record | Date of most recent record |
|--------------------|--------------------|--|--------------------------------|-----------------------------|-----------------------|-----------------------------------|------------------------------|---------------------------|--|-------------------------------------|-------------------------------|
| Amphibians | | | | | | | | | | | |
| Bufo bufo | Common Toad | NERC Act Section 41 BAP Priority National BAP Priority London Local Spp of Cons Conc | 2 | 1 | Ρ | 739 | Ν | 2001-2002 | 1761 | SW | 11/06/2004 |
| Rana temporaria | Common Frog | Local Spp of Cons Conc | 15 | | 1 | 539 | Ν | 2006 | 1281 | Ν | 22/03/2011- 23/03/2011 |
| Triturus cristatus | Great Crested Newt | Cons Regs 2010 Sch2 Hab&Spp Dir Anx 2np Hab&Spp Dir Anx 4 NERC Act Section 41 BAP Priority National W&CA Sch5 Sec 9.4b W&CA Sch5 Sec 9.4c BAP Priority London Local Spp of Cons Conc | 2 | | 1 | 1408 | Ν | 22/03/2011- 23/03/2011 | 1408 | Ν | 22/03/2011- 23/03/2011 |
| Reptiles | | | | | | | | | | | |
| Anguis fragilis | Slow-worm | NERC Act Section 41 BAP Priority National W&CA Sch5 Sec 9.1k/i BAP Priority London Local Spp of Cons Conc | 6 | | 1 | 515 | SW | 19/10/2004 | 1760 | SW | 03/05/2010 |
| Natrix natrix | Grass Snake | NERC Act Section 41 BAP Priority National W&CA Sch5 Sec 9.1k/i BAP Priority London Local Spp of Cons Conc | 12 | | 20 | 515 | SW | 19/10/2004 | 1760 | SW | 03/05/2010 |
| Zootoca vivipara | Common Lizard | NERC Act Section 41 BAP Priority National W&CA Sch5 Sec 9.1k/i BAP Priority London Local Spp of Cons Conc | 7 | | 2 | 1760 | SW | 20/07/2009 | 1760 | SW | 03/05/2010 |

| Taxon Name | Common Name | Designation | Total number of occurrences | No. of breeding occurrences | Maximum occurrence | Distance (m) of nearest record | Bearing of nearest record | Date of nearest record | Distance (m) of most recent record | Bearing of most recent record | Date of most recent record |
|----------------------|---------------------------|--|--------------------------------|-----------------------------|-----------------------|-----------------------------------|------------------------------|---------------------------|--|-------------------------------------|-------------------------------|
| Birds | | | | | | | | | | | |
| Acanthis cabaret | Lesser Redpoll | NERC Act Section 41 | 2 | | 10 | 1356 | SW | 29/10/1983 | 1356 | SW | 29/10/1983 |
| | | BAP Priority National | | | | | | | | | |
| | | Bird-Red | | | | | | | | | |
| Acanthis flammea | Common (Mealy) Redpoll | BAP Priority London | 5 | | 7 | 1923 | SW | 25/09/2005 | 1923 | SW | 12/11/2005 |
| | | Local Spp of Cons Conc | | | | | | | | | |
| Alcedo atthis | Kingfisher | Birds Dir Anx 1 | 8 | 1 | 2 | 1356 | SW | 30/03/1985 | 1928 | N | 16/07/2014 |
| | | W&CA Sch1 Part 1 | | | | | | | | | |
| | | Local Spp of Cons Conc | | | | | | | | | |
| Anas acuta | Pintail | Local Spp of Cons Conc | 1 | | 1 | 1923 | SW | 16/01/2005 | 1923 | SW | 16/01/2005 |
| Anas clypeata | Shoveler | Local Spp of Cons Conc | 19 | | 14 | 1923 | SW | 17/12/2006 | 1923 | SW | 30/12/2007 |
| Anas crecca | Teal | Local Spp of Cons Conc | 17 | | 30 | 1356 | SW | 11/04/1986 | 1923 | SW | 13/08/2006 |
| Anas penelope | Wigeon | Local Spp of Cons Conc | 9 | | 120 | 1356 | SW | 07/03/1987 | 1923 | SW | 17/09/2006 |
| Anas strepera | Gadwall | Local Spp of Cons Conc | 30 | | 86 | 1356 | SW | 07/03/1987 | 1923 | SW | 08/10/2006 |
| Anthus trivialis | Tree Pipit | NERC Act Section 41 BAP Priority National Bird-Red BAP Priority London Local Spp of Cons Conc | 4 | | 1 | 1800 | SW | 09/05/1982 | 1800 | SW | 22/06/1986 |
| Apus apus | Swift | Local Spp of Cons Conc | 6 | | 300 | 608 | NW | 01/01/2010- 31/12/2010 | 608 | NW | 01/01/2010- 31/12/2010 |
| Ardea cinerea | Grey Heron | Local Spp of Cons Conc | 29 | | 6 | 739 | N | 2001-2002 | 1923 | SW | 17/12/2006 |
| Botaurus stellaris | Bittern | Birds Dir Anx 1 NERC Act Section 41 BAP Priority National W&CA Sch1 Part 1 Bird-Red BAP Priority London | 1 | | 1 | 1356 | SW | 21/02/1985 | 1356 | SW | 21/02/1985 |
| Bucephala clangula | Goldeneye | Local Spp of Cons Conc | 4 | | 1 | 1923 | SW | 17/04/2006 | 1923 | SW | 19/04/2006 |
| Calidris pugnax | Ruff | Birds Dir Anx 1 W&CA Sch1 Part 1 Bird-Red | 1 | | 1 | 1923 | SW | 28/08/2000 | 1923 | SW | 28/08/2000 |
| Charadrius hiaticula | Ringed Plover | Local Spp of Cons Conc | 2 | | 1 | 1923 | SW | 30/04/1994 | 1923 | SW | 26/08/2005 |
| Chlidonias niger | Black Tern | Birds Dir Anx 1 W&CA Sch1 Part 1 | 6 | | 4 | 1923 | SW | 24/07/1994 | 1923 | SW | 10/09/2006 |
| Columba oenas | Stock Dove | Local Spp of Cons Conc | 3 | | Р | 1928 | N | 23/04/2014 | 1928 | N | 14/05/2014 |
| Cuculus canorus | Cuckoo | NERC Act Section 41 BAP Priority National Bird-Red BAP Priority London Local Spp of Cons Conc | 2 | | 1 | 1923 | SW | 17/04/2001 | 1923 | SW | 17/05/2005 |
| Cygnus olor | Mute Swan | Local Spp of Cons Conc | 46 | 3 | 62 | 1761 | SW | 11/06/2004 | 1923 | SW | 07/04/2008 |
| Delichon urbicum | House Martin | Local Spp of Cons Conc | 3 | | 15 | 1390 | N | Sep 2004 | 1923 | SW | 13/10/2004 |
| Dendrocopos minor | Lesser Spotted Woodpecker | Bird-Red BAP Priority London Local Spp of Cons Conc | 26 | | 2 | 1356 | SW | 21/08/1982 | 1765 | SW | 18/02/2007 |
| Egretta garzetta | Little Egret | Birds Dir Anx 1 Local Spp of Cons Conc | 1 | | Р | 1928 | Ν | 24/03/2014 | 1928 | Ν | 24/03/2014 |
| Falco columbarius | Merlin | Birds Dir Anx 1 W&CA Sch1 Part 1 | 1 | | 2 | 1923 | SW | 06/06/1986 | 1923 | SW | 06/06/1986 |
| Falco tinnunculus | Kestrel | Local Spp of Cons Conc | 2 | 1 | Р | 1837 | N | 1986 | 1928 | N | 10/09/2014 |



| Taxon Name | Common Name | Designation | Total number of occurrences | No. of breeding occurrences | Maximum occurrence | Distance (m) of nearest record | Bearing of nearest record | Date of nearest record | Distance (m) of most recent record | Bearing of most recent record | Date of most recent record |
|--------------------------|--------------------------|---|--------------------------------|-----------------------------|-----------------------|-----------------------------------|---------------------------|---------------------------|--|-------------------------------------|----------------------------|
| Fringilla montifringilla | Brambling | W&CA Sch1 Part 1 | 1 | | 1 | 1356 | SW | 25/01/1987 | 1356 | SW | 25/01/1987 |
| Hirundo rustica | Swallow | Local Spp of Cons Conc | 4 | | 85 | 1390 | N | May 2004 | 1390 | Ν | May 2004 |
| Lanius collurio | Red-backed Shrike | Birds Dir Anx 1 BAP Priority National W&CA Sch1 Part 1 Bird-Red | 1 | | 1 | 1356 | SW | 26/05/1996 | 1356 | SW | 26/05/1996 |
| Larus fuscus | Lesser Black-backed Gull | Local Spp of Cons Conc | 18 | | 11 | 1923 | SW | 19/11/2006 | 1923 | SW | 17/12/2006 |
| Larus melanocephalus | Mediterranean Gull | Birds Dir Anx 1 W&CA Sch1 Part 1 | 1 | | 1 | 1923 | SW | 20/12/1982 | 1923 | SW | 20/12/1982 |
| Loxia curvirostra | Common Crossbill | W&CA Sch1 Part 1 Local Spp of Cons Conc | 4 | | 11 | 1765 | SW | 21/07/1997 | 1899 | Ν | 14/06/2005 |
| Mergellus albellus | Smew | Birds Dir Anx 1 | 17 | | 4 | 1923 | SW | 11/01/1998 | 1923 | SW | 12/02/2006 |
| Milvus milvus | Red Kite | Birds Dir Anx 1 W&CA Sch1 Part 1 | 1 | | 1 | 1899 | Ν | 03/03/1994 | 1899 | Ν | 03/03/1994 |
| Motacilla cinerea | Grey Wagtail | Local Spp of Cons Conc | 6 | | 2 | 478 | N | 02/08/2004 | 1928 | N | 10/09/2014 |
| Motacilla flava | Yellow Wagtail | Bird-Red BAP Priority London Local Spp of Cons Conc | 1 | | 1 | 1923 | SW | 24/06/1995 | 1923 | SW | 24/06/1995 |
| Muscicapa striata | Spotted Flycatcher | NERC Act Section 41 BAP Priority National Bird-Red BAP Priority London Local Spp of Cons Conc | 6 | | 6 | 546 | w | 28/07/1985 | 1923 | SW | 16/09/2003 |
| Numenius arquata | Curlew | NERC Act Section 41 BAP Priority National | 1 | | 1 | 1356 | SW | 17/07/1984 | 1356 | SW | 17/07/1984 |
| Pandion haliaetus | Osprey | Birds Dir Anx 1 W&CA Sch1 Part 1 | 1 | | 1 | 1923 | SW | 25/03/2008 | 1923 | SW | 25/03/2008 |
| Passer domesticus | House Sparrow | NERC Act Section 41 BAP Priority National Bird-Red BAP Priority London Local Spp of Cons Conc | 68 | 52 | 14 | 86 | Ν | 2002 | 416 | W | 22/07/2005 |
| Phylloscopus sibilatrix | Wood Warbler | NERC Act Section 41 BAP Priority National Bird-Red BAP Priority London Local Spp of Cons Conc | 3 | 1 | 1 | 1765 | SW | 26/05/1986 | 1765 | SW | 01/06/1986 |
| Phylloscopus trochilus | Willow Warbler | Local Spp of Cons Conc | 7 | | 25 | 1279 | W | 11/06/2004 | 1279 | W | 11/06/2004 |
| Pluvialis apricaria | Golden Plover | Birds Dir Anx 1 | 2 | | 10 | 1923 | SW | 04/04/2006 | 1923 | SW | 04/04/2006 |
| Prunella modularis | Dunnock | BAP Priority London Local Spp of Cons Conc | 2 | | 1 | 1555 | SW | 11/06/2004 | 1555 | SW | 11/06/2004 |
| Pyrrhula pyrrhula | Bullfinch | BAP Priority London | 3 | | 2 | 1555 | SW | 11/06/2004 | 1899 | Ν | 25/11/2005 |
| Rallus aquaticus | Water Rail | Local Spp of Cons Conc | 7 | | 2 | 1356 | SW | 20/07/2005 | 1923 | SW | 24/01/2006 |
| Regulus regulus | Goldcrest | Local Spp of Cons Conc | 3 | 2 | Р | 987 | NW | 03/05/2001 | 1924 | N | 24/05/2004 |
| Riparia riparia | Sand Martin | BAP Priority London Local Spp of Cons Conc | 2 | | 100 | 1923 | SW | 27/04/1986 | 1923 | SW | 24/08/2004 |
| Scolopax rusticola | Woodcock | Local Spp of Cons Conc | 22 | | 2 | 1356 | SW | 17/05/1983 | 1800 | SW | 30/12/2007 |
| Sterna hirundo | Common Tern | Birds Dir Anx 1 Local Spp of Cons Conc | 4 | | 1 | 1761 | SW | 11/06/2004 | 1923 | SW | 03/04/2006 |
| Sterna paradisaea | Arctic Tern | Birds Dir Anx 1 | 6 | | 2 | 1923 | SW | 10/08/2006 | 1923 | SW | 13/08/2006 |
| Sterna sandvicensis | Sandwich Tern | Birds Dir Anx 1 | 1 | | 1 | 1923 | SW | 11/09/1999 | 1923 | SW | 11/09/1999 |
| Strix aluco | Tawny Owl | Local Spp of Cons Conc | 7 | | 1 | 1765 | SW | 05/02/1998 | 1830 | N | 06/08/2003 |



| Taxon Name | Common Name | Designation | Total number of occurrences | No. of breeding occurrences | Maximum occurrence | Distance (m) of nearest record | Bearing of nearest record | Date of nearest record | Distance (m) of most recent record | Bearing of most recent record | Date of most recent record |
|----------------------|------------------------|---|--------------------------------|-----------------------------|-----------------------|-----------------------------------|------------------------------|---------------------------|--|-------------------------------------|-------------------------------|
| Sturnus vulgaris | Starling | Bird-Red BAP Priority London Local Spp of Cons Conc | 1 | | Ρ | 1903 | Ν | 24/05/2004 | 1903 | Ν | 24/05/2004 |
| Tadorna tadorna | Shelduck | Local Spp of Cons Conc | 3 | | 2 | 1923 | SW | 23/09/1998 | 1923 | SW | 21/08/2005 |
| Tringa nebularia | Greenshank | W&CA Sch1 Part 1 | 12 | | 3 | 1923 | SW | 07/08/2006 | 1923 | SW | 07/08/2006 |
| Tringa ochropus | Green Sandpiper | W&CA Sch1 Part 1 | 3 | | 5 | 1356 | SW | 22/07/1986 | 1923 | SW | 25/07/1999 |
| Turdus iliacus | Redwing | W&CA Sch1 Part 1 Bird-Red | 2 | | 30 | 1356 | SW | 19/10/1985 | 1356 | SW | 19/10/1985 |
| Turdus philomelos | Song Thrush | Bird-Red BAP Priority London Local Spp of Cons Conc | 11 | 1 | Ρ | 1254 | SW | 20/05/2004 | 1928 | Ν | 24/07/2014 |
| Turdus pilaris | Fieldfare | W&CA Sch1 Part 1 Bird-Red | 2 | | 30 | 1356 | SW | 29/10/1983 | 1923 | SW | 27/01/1987 |
| Turdus viscivorus | Mistle Thrush | Local Spp of Cons Conc | 2 | | Р | 1928 | N | 23/04/2014 | 1928 | Ν | 09/07/2014 |
| Mammals (Excl. Bats) | | | 1 | | | | | | | | |
| Arvicola amphibius | European Water Vole | NERC Act Section 41 BAP Priority National W&CA Sch5 Sec 9.1k/i W&CA Sch5 Sec 9.1t WCA5/9.4.a W&CA Sch5 Sec 9.4b W&CA Sch5 Sec 9.4c BAP Priority London Local Spp of Cons Conc | 2 | | 1 | 1356 | SW | May 2003 | 1356 | SW | May 2003 |
| Mammals (Bats) | | | | | | | | | | | |
| Eptesicus serotinus | Serotine | Cons Regs 2010 Sch2 Hab&Spp Dir Anx 4 W&CA Sch5 Sec 9.4b W&CA Sch5 Sec 9.4c BAP Priority London Local Spp of Cons Conc | 1 | | Р | 1842 | SW | 13/05/2006 | 1842 | SW | 13/05/2006 |
| Mammals (Excl. Bats) | | | | | | | | | | | |
| Erinaceus europaeus | West European Hedgehog | NERC Act Section 41 BAP Priority National BAP Priority London Local Spp of Cons Conc | 7 | | Ρ | 739 | N | 2001-2002 | 1814 | Ν | 2004 |
| | | | | | | | | | | | |
| Mammals (Bats) | | | | | 2 | 4642 | 011 | 42/05/2006 | 4042 | C) 1 / | 42/05/2006 |
| Myotis | Unidentified Bat | Cons Regs 2010 Sch2 W&CA Sch5 Sec 9.4b W&CA Sch5 Sec 9.4c BAP Priority London | 1 | | Ρ | 1842 | SW | 13/05/2006 | 1842 | SW | 13/05/2006 |
| Myotis daubentonii | Daubenton's Bat | Cons Regs 2010 Sch2 Hab&Spp Dir Anx 4 W&CA Sch5 Sec 9.4b W&CA Sch5 Sec 9.4c BAP Priority London Local Spp of Cons Conc | 5 | | Ρ | 1336 | SW | 19/05/2001 | 1842 | SW | 13/05/2006 |

| Taxon Name | Common Name | Designation | Total number | No. of breeding | Maximum | Distance (m) of | Bearing of | Date of nearest | Distance (m) of | Bearing of | Date of most |
|---------------------------------------|-------------------------|------------------------------|----------------|-----------------|------------|-----------------|----------------|-----------------|-----------------------|-----------------------|---------------|
| | | | of occurrences | - | occurrence | | nearest record | record | most recent record | most recent record | recent record |
| Nyctalus leisleri | Lesser Noctule | Cons Regs 2010 Sch2 | 1 | | Р | 1842 | SW | 13/05/2006 | 1842 | SW | 13/05/2006 |
| | | Hab&Spp Dir Anx 4 | | | | | | | | | |
| | | W&CA Sch5 Sec 9.4b | | | | | | | | | |
| | | W&CA Sch5 Sec 9.4c | | | | | | | | | |
| | | BAP Priority London | | | | | | | | | |
| | | Local Spp of Cons Conc | | | | | | | | | |
| Nyctalus noctula | Noctule Bat | Cons Regs 2010 Sch2 | 3 | | Р | 1336 | SW | 19/05/2001 | 1842 | SW | 13/05/2006 |
| Nyetalas noetala | | Hab&Spp Dir Anx 4 | 5 | | • | 1550 | 5.00 | 13/03/2001 | 1042 | 511 | 13/03/2000 |
| | | NERC Act Section 41 | | | | | | | | | |
| | | BAP Priority National | | | | | | | | | |
| | | W&CA Sch5 Sec 9.4b | | | | | | | | | |
| | | | | | | | | | | | |
| | | W&CA Sch5 Sec 9.4c | | | | | | | | | |
| | | BAP Priority London | | | | | | | | | |
| | | Local Spp of Cons Conc | | | | | | | | | |
| Pipistrellus | Pipistrelle Bat species | Cons Regs 2010 Sch2 | 8 | | Р | 1482 | N | 26/06/1996 | 1842 | SW | 21/08/2007 |
| | | W&CA Sch5 Sec 9.4b | | | | | | | | | |
| | | W&CA Sch5 Sec 9.4c | | | | | | | | | |
| | | BAP Priority London | | | | | | | | | |
| Pipistrellus pipistrellus | Common Pipistrelle | Cons Regs 2010 Sch2 | 8 | | Р | 1336 | SW | 19/05/2001 | 1842 | SW | 21/08/2007 |
| | | W&CA Sch5 Sec 9.4b | | | | | | | | | |
| | | W&CA Sch5 Sec 9.4c | | | | | | | | | |
| | | BAP Priority London | | | | | | | | | |
| Pipistrellus pygmaeus | Soprano Pipistrelle | Cons Regs 2010 Sch2 | 4 | | Р | 1336 | SW | 19/05/2001 | 1416 | N | 22/07/2007 |
| r ipisti citus pyginacus | Soprano i pistrene | Hab&Spp Dir Anx 4 | | | • | 1550 | 5.00 | 13/03/2001 | 1410 | | 22/07/2007 |
| | | NERC Act Section 41 | | | | | | | | | |
| | | | | | | | | | | | |
| | | BAP Priority National | | | | | | | | | |
| | | W&CA Sch5 Sec 9.4b | | | | | | | | | |
| | | W&CA Sch5 Sec 9.4c | | | | | | | | | |
| | | BAP Priority London | | | | | | | | | |
| | | Local Spp of Cons Conc | | | | | | | | | |
| Plecotus auritus | Brown Long-eared Bat | Cons Regs 2010 Sch2 | 1 | | Р | 1970 | N | 2005 | 1970 | N | 2005 |
| | | Hab&Spp Dir Anx 4 | | | | | | | | | |
| | | NERC Act Section 41 | | | | | | | | | |
| | | BAP Priority National | | | | | | | | | |
| | | W&CA Sch5 Sec 9.4b | | | | | | | | | |
| | | W&CA Sch5 Sec 9.4c | | | | | | | | | |
| | | BAP Priority London | | | | | | | | | |
| | | Local Spp of Cons Conc | | | | | | | | | |
| Vespertilionidae | Bats | Cons Regs 2010 Sch2 | 6 | | Р | 739 | N | 2001-2002 | 1814 | N | 2005 |
| vespertmonidae | Duts | W&CA Sch5 Sec 9.4b | Ŭ | | · | 735 | | 2001 2002 | 1014 | | 2005 |
| | | W&CA Sch5 Sec 9.4c | | | | | | | | | |
| | | BAP Priority London | | | | | | | | | |
| | | | | | | | | | | | |
| Lichens | | | | | | | | | | | |
| Xanthoria ulophyllodes | Xanthoria ulophyllodes | Nationally Rare | 1 | | Р | 1686 | SW | 2006 | 1686 | SW | 2006 |
| Higher Plants (Conifers) | | | | <u> </u> | | | | | ļ | | |
| Pinus sylvestris | Scots Pine | Nationally Scarce | 6 | | Р | 515 | SW | 19/10/2004 | 515 | SW | 19/10/2004 |
| · · · · · · · · · · · · · · · · · · · | | | | | | | | · · · | | | |
| | | | | I | | 1 | 1 | | 1 1 | | 1 |
| Higher Plants (Flowering Pl | ants) | | | | | | | | | | |

| Taxon Name | Common Name | Designation | Total number of occurrences | No. of breeding occurrences | Maximum occurrence | Distance (m) of nearest record | Bearing of nearest record | Date of nearest record | Distance (m) of most recent record | Bearing of most recent record | Date of most recent record |
|----------------------------------|----------------------------|--|--------------------------------|--------------------------------|-----------------------|-----------------------------------|------------------------------|---------------------------|--|-------------------------------------|-------------------------------|
| Cyperus longus | Galingale | Nationally Scarce RedList_GB-Lr(NT) | 2 | | Р | 817 | SW | 06/10/2004 | 1843 | Ν | 19/10/2004 |
| Genista anglica | Petty Whin | Local Spp of Cons Conc RedList_GB-Lr(NT) | 4 | | Р | 1232 | W | 1995 | 1555 | SW | 11/06/2004 |
| Hyacinthoides non-scripta | Bluebell | W&CA Sch8 Local Spp of Cons Conc | 6 | | Р | 937 | N | 02/08/2004 | 937 | Ν | 02/08/2004 |
| Lepidium latifolium | Dittander | Nationally Scarce | 1 | | Р | 1761 | SW | 11/06/2004 | 1761 | SW | 11/06/2004 |
| Melampyrum pratense | Common Cow-wheat | Local Spp of Cons Conc | 5 | | Р | 1555 | SW | 11/06/2004 | 1555 | SW | 11/06/2004 |
| Narcissus pseudonarcissus | Daffodil | Local Spp of Cons Conc | 2 | | Р | 437 | N | 1987 | 437 | Ν | 1987 |
| Pedicularis sylvatica | Lousewort | Local Spp of Cons Conc | 3 | | Р | 1618 | SW | 1999 | 1618 | SW | 1999 |
| Pedicularis sylvatica subsp. | Lousewort | Local Spp of Cons Conc | 1 | | Р | 1634 | SW | 1967 | 1634 | SW | 1967 |
| sylvatica | | | | | | | | | | | |
| Polygala serpyllifolia | Heath Milkwort | Local Spp of Cons Conc | 2 | | Р | 1889 | N | 1999 | 1889 | Ν | 1999 |
| Polygonatum multiflorum | Solomon's-seal | Local Spp of Cons Conc | 1 | | Р | 1995 | N | 06/08/2003 | 1995 | Ν | 06/08/2003 |
| Populus nigra subsp. betulifolia | Black Poplar | BAP Priority London | 1 | | Р | 384 | N | 06/10/2004 | 384 | N | 06/10/2004 |
| Ranunculus arvensis | Corn Buttercup | NERC Act Section 41 BAP Priority National RedList_GB-CR | 1 | | Ρ | 866 | N | 1952 | 866 | Ν | 1952 |
| Rosa spinosissima | Burnet Rose | Local Spp of Cons Conc | 1 | | Р | 1761 | SW | 11/06/2004 | 1761 | SW | 11/06/2004 |
| Rosa stylosa | Short-styled Field-rose | Local Spp of Cons Conc | 2 | | Р | 725 | N | 2003 | 725 | N | 2003 |
| Succisa pratensis | Devil's-bit Scabious | Local Spp of Cons Conc | 3 | | Р | 1407 | N | 11/09/2003 | 1862 | N | 06/05/2004 |
| Ulex minor | Dwarf Gorse | Local Spp of Cons Conc | 2 | | Р | 1555 | SW | 11/06/2004 | 1555 | SW | 11/06/2004 |
| Viscum album | Mistletoe | BAP Priority London Local Spp of Cons Conc | 2 | | Р | 1620 | NW | 2002 | 1620 | NW | 2002 |
| Invertebrates - Odonata (Drago | nflies & Damselflies) | | | | | | | | | | |
| Erythromma najas | Red-eyed Damselfly | Local Spp of Cons Conc | 1 | | 2 | 1923 | SW | 26/07/2014 | 1923 | SW | 26/07/2014 |
| Sympetrum sanguineum | Ruddy Darter | Local Spp of Cons Conc | 6 | | 4 | 1274 | SW | 27/07/2013 | 1370 | W | 24/08/2014 |
| Invertebrates - Coleoptera (Bee | | | | [| | | | | | | |
| Byctiscus populi | Poplar Leaf-rolling Weevil | NERC Act Section 41 BAP Priority National BAP Priority London Local Spp of Cons Conc | 2 | | 1 | 1356 | SW | 15/07/2002 | 1914 | SW | Jul 2002 |
| Lucanus cervus | Stag Beetle | Hab&Spp Dir Anx 2np NERC Act Section 41 BAP Priority National BAP Priority London Local Spp of Cons Conc Nationally Notable B | 7 | | 9 | 634 | N | 22/07/2005 | 1675 | Ν | 25/06/2010 |
| Invertebrates - Lepidoptera (Bu | tterflies) | | | | | | | | | | |
| Apatura iris | Purple Emperor | Local Spp of Cons Conc RedList_GB-Lr(NT) | 15 | | 5 | 1191 | SW | 18/07/2010 | 1904 | N | 24/07/2010 |
| Argynnis paphia | Silver-washed Fritillary | Local Spp of Cons Conc | 2 | | 1 | 1390 | N | 25/07/2007- 06/08/2007 | 1904 | Ν | 24/07/2008 |
| Aricia agestis | Brown Argus | Local Spp of Cons Conc | 3 | | 4 | 1904 | N | 07/08/2008 | 1928 | N | 30/07/2014 |

| Taxon Name | Common Name | Designation | Total number of occurrences | No. of breeding occurrences | Maximum occurrence | Distance (m) of nearest record | Bearing of nearest record | Date of nearest record | Distance (m) of most recent record | Bearing of most recent record | Date of most recent record |
|--------------------------------------|-------------------------|--|--------------------------------|--------------------------------|-----------------------|-----------------------------------|------------------------------|---------------------------|--|-------------------------------------|-------------------------------|
| Coenonympha pamphilus | Small Heath | NERC Act Section 41 BAP Priority National BAP Priority London Local Spp of Cons Conc RedList_GB-Lr(NT) | 2 | | 1 | 1555 | SW | 11/06/2004 | 1618 | SW | 28/07/2008 |
| Limenitis camilla | White Admiral | NERC Act Section 41 BAP Priority National BAP Priority London Local Spp of Cons Conc RedList_GB-VU | 29 | | 33 | 1191 | SW | 18/07/2010 | 1904 | Ν | 24/07/2010 |
| Melanargia galathea subsp. serena | Marbled White | Local Spp of Cons Conc | 4 | | 2 | 1079 | SW | 24/07/2006 | 1191 | SW | 18/07/2010 |
| Satyrium w-album | White-letter Hairstreak | NERC Act Section 41 BAP Priority National BAP Priority London Local Spp of Cons Conc RedList_GB-EN | 1 | | 1 | 1879 | N | 19/07/2010 | 1879 | Ν | 19/07/2010 |
| Invertebrates - Lepidoptera (N | Moths) | | | | | | | | | | |
| Acronicta psi | Grey Dagger | NERC Act Section 41 BAP Priority National BAP Priority London Local Spp of Cons Conc | 3 | | 1 | 479 | N | 1978 | 1555 | SW | 30/06/2000 |
| Acronicta rumicis | Knot Grass | NERC Act Section 41 BAP Priority National BAP Priority London Local Spp of Cons Conc | 3 | | 1 | 479 | N | 1978 | 1555 | SW | 2001 |
| Agrochola litura | Brown-spot Pinion | NERC Act Section 41 BAP Priority National BAP Priority London Local Spp of Cons Conc | 1 | | Ρ | 479 | N | 1978 | 479 | Ν | 1978 |
| Allophyes oxyacanthae | Green-brindled Crescent | NERC Act Section 41 BAP Priority National BAP Priority London Local Spp of Cons Conc | 7 | | 5 | 479 | N | 1978 | 1356 | SW | 23/10/2012 |
| Amphipoea oculea | Ear Moth | NERC Act Section 41 BAP Priority National BAP Priority London Local Spp of Cons Conc | 1 | | 1 | 1356 | SW | 08/08/2013 | 1356 | SW | 08/08/2013 |
| Amphipyra tragopoginis | Mouse Moth | NERC Act Section 41 BAP Priority National BAP Priority London Local Spp of Cons Conc | 1 | | 1 | 479 | N | 1978 | 479 | Ν | 1978 |
| Aporophyla lutulenta | Deep-brown Dart | NERC Act Section 41 BAP Priority National BAP Priority London Local Spp of Cons Conc | 1 | | 1 | 479 | N | 1978 | 479 | Ν | 1978 |
| Arctia caja | Garden Tiger | NERC Act Section 41 BAP Priority National BAP Priority London Local Spp of Cons Conc | 1 | | 1 | 479 | N | 1978 | 479 | Ν | 1978 |



| Taxon Name | Common Name | Designation | Total number | No. of breeding | Maximum | Distance (m) of | Bearing of | Date of nearest | Distance (m) of | Bearing of | Date of most |
|--------------------------|--|------------------------------|----------------|-----------------|------------|-----------------|----------------|-----------------|-----------------------|-----------------------|---------------|
| | | | of occurrences | - | occurrence | | nearest record | record | most recent record | most recent record | recent record |
| Asteroscopus sphinx | Sprawler | NERC Act Section 41 | 5 | | 1 | 1356 | SW | 09/11/2011 | 1356 | SW | 09/11/2011 |
| | | BAP Priority National | | | | | | | | | |
| | | BAP Priority London | | | | | | | | | |
| | | Local Spp of Cons Conc | | | | | | | | | |
| Brachylomia viminalis | Minor Shoulder-knot | NERC Act Section 41 | 6 | | 1 | 1555 | SW | 07/07/2000 | 1555 | SW | 18/08/2000 |
| | | BAP Priority National | | | | | | | | | |
| | | BAP Priority London | | | | | | | | | |
| | | Local Spp of Cons Conc | | | | | | | | | |
| Calamotropha paludella | Bulrush Veneer | Nationally Notable B | 1 | | 1 | 1356 | SW | 13/08/2012 | 1356 | SW | 13/08/2012 |
| Callistege mi | Mother Shipton | Local Spp of Cons Conc | 2 | | 1 | 1555 | SW | 25/04/2011 | 1555 | SW | 25/04/2011 |
| Caradrina morpheus | Mottled Rustic | NERC Act Section 41 | 7 | | 1 | 479 | N | 1978 | 1555 | SW | 2001 |
| | | BAP Priority National | | | | _ | | | | | |
| | BAP Priority London | | | | | | | | | | |
| | | Local Spp of Cons Conc | | | | | | | | | |
| Diarsia rubi | Small Square-spot | NERC Act Section 41 | 11 | | 2 | 479 | N | 1978 | 1356 | SW | 17/05/2011 |
| | | BAP Priority National | | | | _ | | | | | , , - |
| | | BAP Priority London | | | | | | | | | |
| | | Local Spp of Cons Conc | | | | | | | | | |
| Dichonia aprilina | Merveille Du Jour | Local Spp of Cons Conc | 2 | | 1 | 1555 | SW | 23/06/1905 | 1555 | SW | 2001 |
| Ecliptopera silaceata | Small Phoenix | NERC Act Section 41 | 8 | | 2 | 1356 | SW | 20/08/2012 | 1356 | SW | 22/08/2012 |
| | | BAP Priority National | Ũ | | - | 1000 | 511 | 20,00,2012 | 1000 | 511 | 22,00,2012 |
| | | BAP Priority London | | | | | | | | | |
| | | Local Spp of Cons Conc | | | | | | | | | |
| Eilema depressa | Buff Footman | Local Spp of Cons Conc | 1 | | 1 | 1356 | SW | 27/07/2010 | 1356 | SW | 27/07/2010 |
| Eilema griseola | Dingy Footman | Local Spp of Cons Conc | 10 | | 9 | 1356 | SW | 09/08/2012 | 1356 | SW | 08/08/2013 |
| Ennomos fuscantaria | Dusky Thorn | NERC Act Section 41 | 2 | | 1 | 1555 | SW | 23/06/1905 | 1555 | SW | 2001 |
| | | BAP Priority National | 2 | | 1 | 1555 | 500 | 23/00/1909 | 1555 | 500 | 2001 |
| | | BAP Priority London | | | | | | | | | |
| | | Local Spp of Cons Conc | | | | | | | | | |
| Eulithis mellinata | Spinach | NERC Act Section 41 | 3 | | 1 | 479 | N | 1978 | 1555 | SW | 2001 |
| | Spinaen | BAP Priority National | 5 | | 1 | 475 | | 1578 | 1555 | 500 | 2001 |
| | | BAP Priority London | | | | | | | | | |
| | | Local Spp of Cons Conc | | | | | | | | | |
| Hemistola chrysoprasaria | Small Emerald | NERC Act Section 41 | 2 | | 1 | 1555 | SW | 21/07/2000 | 1555 | SW | 21/07/2000 |
| | | BAP Priority National | - | | - | 1333 | 500 | 21/07/2000 | 1555 | 517 | 21/07/2000 |
| | | BAP Priority London | | | | | | | | | |
| | | Local Spp of Cons Conc | | | | | | | | | |
| Hepialus humuli | Ghost Moth | NERC Act Section 41 | 6 | | 1 | 1555 | SW | 02/06/2000 | 1555 | SW | 2001 |
| | | BAP Priority National | 0 | | 1 | 1555 | 500 | 02/00/2000 | 1555 | 500 | 2001 |
| | | BAP Priority London | | | | | | | | | |
| | | Local Spp of Cons Conc | | | | | | | | | |
| Hoplodrina blanda | Rustic | NERC Act Section 41 | 5 | | 1 | 479 | N | 1978 | 1555 | SW | 04/08/2000 |
| | induction in the second s | BAP Priority National | | | 1 | 4,5 | | 1370 | 1000 | 500 | 0-70072000 |
| | | BAP Priority London | | | | | | | | | |
| | | Local Spp of Cons Conc | | | | | | | | | |
| Hydraecia micacea | Rosy Rustic | NERC Act Section 41 | 1 | | 1 | 479 | N | 1978 | 479 | N | 1978 |
| nyaraetia milatea | | BAP Priority National | | | Ŧ | 473 | IN | 1970 | 473 | IN | 1970 |
| | | BAP Priority London | | | | | | | | | |
| | | Local Spp of Cons Conc | | | | | | | | | |
| Hypomecis roboraria | Great Oak Beauty | Local Spp of Cons Conc | 2 | | 1 | 1555 | SW | 17/06/2000 | 1555 | SW | 17/06/2000 |
| ryponnecis roborunu | Gleat Oak beauly | Local Spp of Colls Colle | ۷ | | T | 1322 | 300 | 17/00/2000 | 1000 | 246 | 17/00/2000 |



| Taxon Name | Common Name | Designation | Total number of occurrences | No. of breeding occurrences | Maximum occurrence | Distance (m) of nearest record | Bearing of nearest record | Date of nearest record | Distance (m) of most recent record | Bearing of most recent record | Date of most recent record |
|--------------------------|---------------------------|---|--------------------------------|-----------------------------|-----------------------|-----------------------------------|------------------------------|---------------------------|--|-------------------------------------|-------------------------------|
| Lycia hirtaria | Brindled Beauty | NERC Act Section 41 BAP Priority National BAP Priority London Local Spp of Cons Conc | 1 | | 1 | 479 | N | 1978 | 479 | N | 1978 |
| Malacosoma neustria | Lackey | NERC Act Section 41 BAP Priority National BAP Priority London Local Spp of Cons Conc | 1 | | Ρ | 479 | Ν | 1978 | 479 | Ν | 1978 |
| Melanchra persicariae | Dot Moth | NERC Act Section 41 BAP Priority National BAP Priority London Local Spp of Cons Conc | 1 | | Ρ | 479 | N | 1978 | 479 | Ν | 1978 |
| Mythimna comma | Shoulder-striped Wainscot | NERC Act Section 41 BAP Priority National BAP Priority London Local Spp of Cons Conc | 10 | | 1 | 479 | Ν | 1978 | 1356 | SW | 01/07/2010 |
| Orthosia gracilis | Powdered Quaker | NERC Act Section 41 BAP Priority National BAP Priority London Local Spp of Cons Conc | 1 | | 1 | 479 | N | 1978 | 479 | Ν | 1978 |
| Orthosia populeti | Lead-coloured Drab | Local Spp of Cons Conc | 2 | | 1 | 1356 | SW | 09/04/2010 | 1555 | SW | 29/03/2011 |
| Parascotia fuliginaria | Waved Black | Local Spp of Cons Conc | 2 | | 1 | 1356 | SW | 12/07/2010 | 1356 | SW | 21/07/2011 |
| Pelurga comitata | Dark Spinach | NERC Act Section 41 BAP Priority National BAP Priority London Local Spp of Cons Conc | 1 | | 1 | 479 | N | 1978 | 479 | Ν | 1978 |
| Scotopteryx chenopodiata | Shaded Broad-bar | NERC Act Section 41 BAP Priority National BAP Priority London Local Spp of Cons Conc | 11 | | 1 | 1336 | SW | 10/07/2011 | 1555 | SW | 03/08/2013 |
| Spilosoma lubricipeda | White Ermine | NERC Act Section 41 BAP Priority National BAP Priority London Local Spp of Cons Conc | 12 | | 1 | 479 | N | 1978 | 1356 | SW | 22/06/2010 |
| Spilosoma luteum | Buff Ermine | NERC Act Section 41 BAP Priority National BAP Priority London Local Spp of Cons Conc | 25 | | 7 | 479 | Ν | 1978 | 1356 | SW | 26/07/2012 |
| Tholera cespitis | Hedge Rustic | NERC Act Section 41 BAP Priority National BAP Priority London Local Spp of Cons Conc | 2 | | 1 | 1356 | SW | 02/09/2012 | 1356 | SW | 02/09/2012 |
| Thumatha senex | Round-winged Muslin | Local Spp of Cons Conc | 5 | | 1 | 1356 | SW | 20/07/2012 | 1356 | SW | 20/07/2012 |
| Timandra comae | Blood-Vein | NERC Act Section 41 BAP Priority National BAP Priority London Local Spp of Cons Conc | 6 | | 1 | 479 | N | 1978 | 1356 | SW | 25/06/2012 |
| Tyria jacobaeae | Cinnabar | NERC Act Section 41 BAP Priority National BAP Priority London Local Spp of Cons Conc | 5 | | 1 | 1336 | SW | 10/07/2011 | 1336 | SW | 10/07/2011 |



| Taxon Name | Common Name | Designation | Total number | No. of breeding | Maximum | Distance (m) of | Bearing of | Date of nearest | Distance (m) of | Bearing of | Date of most |
|--------------------------------|------------------------------|------------------------------|----------------|-----------------|------------|-----------------|----------------|-----------------|-----------------|-------------|---------------|
| | | | of occurrences | occurrences | occurrence | nearest record | nearest record | record | most recent | most recent | recent record |
| | | | | | | | | | record | record | |
| Watsonalla binaria | Oak Hook-tip | NERC Act Section 41 | 6 | | 2 | 1356 | SW | 27/07/2010 | 1356 | SW | 08/08/2013 |
| | | BAP Priority National | | | | | | | | | |
| | | BAP Priority London | | | | | | | | | |
| | | Local Spp of Cons Conc | | | | | | | | | |
| Xanthia icteritia | Sallow | NERC Act Section 41 | 5 | | 1 | 1356 | SW | 08/10/2010 | 1356 | SW | 08/10/2010 |
| | | BAP Priority National | | | | | | | | | |
| | | BAP Priority London | | | | | | | | | |
| | | Local Spp of Cons Conc | | | | | | | | | |
| | | | | | | | | | | | |
| Invertebrates - Hymenoptera (A | nts, Bees, Sawflies & Wasps) | | | | | | | | | | |
| Andrena (Zonandrena) flavipes | Yellow Legged Mining Bee | Local Spp of Cons Conc | 1 | | Р | 1618 | SW | 2006 | 1618 | SW | 2006 |
| Cerceris rybyensis | Ornate Tailed Digger Wasp | Local Spp of Cons Conc | 1 | | Р | 1618 | SW | 2006 | 1618 | SW | 2006 |
| Sphecodes niger | Sphecodes niger | Local Spp of Cons Conc | 1 | | Р | 1618 | SW | 2006 | 1618 | SW | 2006 |

Protected species and Species of Conservation Concern – Coarse Resolution Records The species records in this table are represent records of 1km², 2km² or 10km² accuracy.

| Taxon Name | Common Name | Designation | Total number of occurrences | Record accuracy | Date of oldest record | Date of most recent record |
|--------------------------|------------------------|------------------------|-----------------------------|-----------------|--------------------------|-------------------------------|
| Birds | · · · · | | | | | |
| Acanthis flammea | Common (Mealy) Redpoll | BAP Priority London | 5 | 1km | 17/10/2010 | 20/11/2010 |
| | | Local Spp of Cons Conc | | | | |
| Alauda arvensis | Skylark | NERC Act Section 41 | 1 | 1km | 17/10/2010 | 17/10/2010 |
| | | Bird-Red | | | | |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| Alcedo atthis | Kingfisher | Birds Dir Anx 1 | 3 | 1km | 17/10/2010 | 18/12/2010 |
| | | W&CA Sch1 Part 1 | | | | |
| | | Local Spp of Cons Conc | - | | | |
| Anas clypeata | Shoveler | Local Spp of Cons Conc | 6 | 1km | 17/10/2010 | 30/11/2010 |
| Anas crecca | Teal | Local Spp of Cons Conc | 7 | 1km | 17/10/2010 | 24/12/2010 |
| Anas penelope | Wigeon | Local Spp of Cons Conc | 7 | 1km | 17/10/2010 | 30/11/2010 |
| Anas strepera | Gadwall | Local Spp of Cons Conc | 7 | 1km | 17/10/2010 | 30/11/2010 |
| Apus apus | Swift | Local Spp of Cons Conc | 2 | 1km | 01/01/2009- | 01/01/2009- |
| | | | | | 31/12/2009 | 31/12/2009 |
| Ardea cinerea | Grey Heron | Local Spp of Cons Conc | 1 | 1km | 08/11/2010 | 08/11/2010 |
| Cygnus olor | Mute Swan | Local Spp of Cons Conc | 2 | 1km | 17/10/2010 | 30/10/2010 |
| Egretta garzetta | Little Egret | Birds Dir Anx 1 | 3 | 1km | 30/11/2010 | 24/12/2010 |
| | | Local Spp of Cons Conc | | | | |
| Falco tinnunculus | Kestrel | Local Spp of Cons Conc | 1 | 1km | 05/12/2010 | 05/12/2010 |
| Fringilla montifringilla | Brambling | W&CA Sch1 Part 1 | 1 | 1km | 17/10/2010 | 17/10/2010 |
| Gallinago gallinago | Snipe | Local Spp of Cons Conc | 3 | 1km | 30/11/2010 | 24/12/2010 |
| Larus argentatus | Herring Gull | Bird-Red | 1 | 1km | 10/11/2010 | 10/11/2010 |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| Mergellus albellus | Smew | Birds Dir Anx 1 | 2 | 1km | 30/11/2010 | 05/12/2010 |
| Motacilla cinerea | Grey Wagtail | Local Spp of Cons Conc | 4 | 1km | 17/10/2010 | 24/12/2010 |
| Pyrrhula pyrrhula | Bullfinch | BAP Priority London | 3 | 1km | 03/11/2010 | 05/12/2010 |
| Rallus aquaticus | Water Rail | Local Spp of Cons Conc | 2 | 1km | 23/10/2010 | 30/11/2010 |
| Regulus regulus | Goldcrest | Local Spp of Cons Conc | 4 | 1km | 17/10/2010 | 20/11/2010 |
| Strix aluco | Tawny Owl | Local Spp of Cons Conc | 1 | 1km | 23/10/2010 | 23/10/2010 |

| Taxon Name | Common Name | Designation | Total number of occurrences | Record accuracy | Date of oldest record | Date of most recent record |
|----------------------------|---------------------|--|--------------------------------|-----------------|--------------------------|-------------------------------|
| Sturnus vulgaris | Starling | Bird-Red | 1 | 1km | 08/11/2010 | 08/11/2010 |
| | | BAP Priority London | - | | 00, 11, 2010 | 00, 11, 2010 |
| | | Local Spp of Cons Conc | | | | |
| Furdus iliacus | Redwing | W&CA Sch1 Part 1 | 2 | 1km | 23/10/2010 | 03/11/2010 |
| | | Bird-Red | - | 1 | 20/10/2010 | 00,11,2010 |
| Furdus pilaris | Fieldfare | W&CA Sch1 Part 1 | 3 | 1km | 03/11/2010 | 18/12/2010 |
| | | Bird-Red | 5 | | 03/11/2010 | 10, 12, 2010 |
| | | | | | | |
| Mammals (Bats) | | I | | | | L |
| Myotis | Unidentified Bat | Cons Regs 2010 Sch2 | 1 | 1km | 30/05/2009 | 30/05/2009 |
| iyous | | W&CA Sch5 Sec 9.4b | - | | 50,05,2005 | 30,03,2003 |
| | | W&CA Sch5 Sec 9.4c | | | | |
| | | BAP Priority London | | | | |
| Myotis daubentonii | Daubenton's Bat | Cons Regs 2010 Sch2 | 3 | 1km | 07/04/1995 | 30/05/2009 |
| nyotis dudbentonii | Daubenton's Bat | Hab&Spp Dir Anx 4 | 5 | IKIII | 07/04/1995 | 50/05/2009 |
| | | W&CA Sch5 Sec 9.4b | | | | |
| | | W&CA Sch5 Sec 9.40 W&CA Sch5 Sec 9.4c | | | | |
| | | | | | | |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | 2 | 41 | 07/04/4005 | 20/05/2000 |
| lyctalus noctula | Noctule Bat | Cons Regs 2010 Sch2 | 3 | 1km | 07/04/1995 | 30/05/2009 |
| | | Hab&Spp Dir Anx 4 | | | | |
| | | NERC Act Section 41 | | | | |
| | | BAP Priority National | | | | |
| | | W&CA Sch5 Sec 9.4b | | | | |
| | | W&CA Sch5 Sec 9.4c | | | | |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| Pipistrellus pipistrellus | Common Pipistrelle | Cons Regs 2010 Sch2 | 3 | 1km | 07/04/1995 | 30/05/2009 |
| | | W&CA Sch5 Sec 9.4b | | | | |
| | | W&CA Sch5 Sec 9.4c | | | | |
| | | BAP Priority London | | | | |
| Pipistrellus pygmaeus | Soprano Pipistrelle | Cons Regs 2010 Sch2 | 1 | 1km | 30/05/2009 | 30/05/2009 |
| | | Hab&Spp Dir Anx 4 | | | | |
| | | NERC Act Section 41 | | | | |
| | | BAP Priority National | | | | |
| | | W&CA Sch5 Sec 9.4b | | | | |
| | | W&CA Sch5 Sec 9.4c | | | | |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| | | | | | | |
| ligher Plants (Horsetails) | | | - F I | | | Ι |
| Equisetum sylvaticum | Wood Horsetail | Local Spp of Cons Conc | 1 | 1km | 1945 | 1945 |
| | | | | | | |
| ligher Plants (Ferns) | | | | | | |
| Blechnum spicant | Hard-fern | Local Spp of Cons Conc | 2 | 10km | 1907 | 1980 |
| Dreopteris limbosperma | Lemon-scented Fern | Local Spp of Cons Conc | 2 | 10km | 1974 | 02/08/1998 |
| | | | | | | |
| Higher Plants (Conifers) | Cooto Dino | Nationally Coarse | | 10/ | 1020 | 1005 |
| Pinus sylvestris | Scots Pine | Nationally Scarce | 6 | 10km | 1936 | 1995 |
| | | | | | | |



| Taxon Name | Common Name | Designation | Total number of occurrences | Record accuracy | Date of oldest record | Date of most recent record |
|----------------------------|----------------------------|----------------------------------|--------------------------------|-----------------|--------------------------|-------------------------------|
| Adonis annua | Pheasant's-eye | NERC Act Section 41 | 2 | 10km | 1884 | 1884 |
| | Theasant s-cyc | BAP Priority National | 2 | IOKIII | 1004 | 1004 |
| | | Nationally Scarce | | | | |
| | | RedList GB-EN | | | | |
| Aira caryophyllea | Silver Hair-grass | Local Spp of Cons Conc | 2 | 10km | 1951 | 06/08/1978 |
| Allium oleraceum | Field Garlic | RedList_GB-VU | 2 | 10km | 24/06/1998 | 04/07/1998 |
| Alopecurus aequalis | Orange Foxtail | Local Spp of Cons Conc | 4 | 1km, 2km, 10km | 1995 | 2003 |
| Althaea hirsuta | Rough Marsh-mallow | W&CA Sch8 | 1 | 2km | 1997 | 1997 |
| Anthemis cotula | Stinking Chamomile | RedList GB-VU | 4 | 1km, 10km | 1912 | 02/07/1988 |
| Apera spica-venti | Loose Silky-bent | Local Spp of Cons Conc | 4 | 1km, 10km | 07/10/1926 | 1997 |
| | | RedList_GB-Lr(NT) | | | | |
| Arabis glabra | Tower Mustard | NERC Act Section 41 | 4 | 10km | 1860 | 1991 |
| - | | BAP Priority National | | | | |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| | | Nationally Scarce | | | | |
| | | RedList_GB-EN | | | | |
| Atriplex littoralis | Grass-leaved Orache | Local Spp of Cons Conc | 1 | 10km | 1900 | 1900 |
| Bromus hordeaceus subsp. | Sand Soft-brome | Nationally Scarce | 1 | 10km | 1965-1976 | 1965-1976 |
| thominei | Liste un viste el Ducine e | NEDC Act Continue 41 | 0 | 11.00 101.00 | 1000 | 1007 |
| Bromus interruptus | Interrupted Brome | NERC Act Section 41 | 8 | 1km, 10km | 1898 | 1907 |
| | | BAP Priority National | | | | |
| | Smooth Bromo | RedList_GB-EW | 1 | 10km | 2007 | 2007 |
| Bromus racemosus | Smooth Brome | Local Spp of Cons Conc | 1 | 10km | 2007 | 2007 |
| Buxus sempervirens | Вох | Nationally Rare RedList_GB-DD | 4 | 10km | 1980 | 2001 |
| Cardamine bulbifera | Coralroot | Local Spp of Cons Conc | 13 | 10km | 1901 | 24/05/2003 |
| | | Nationally Scarce | | | | |
| Cardamine impatiens | Narrow-leaved Bitter-cress | BAP Priority London | 1 | 10km | 1988 | 1988 |
| | | Local Spp of Cons Conc | | | | |
| | | Nationally Scarce | | | | |
| | | RedList_GB-Lr(NT) | | | | |
| Carex appropinquata | Fibrous Tussock-sedge | Nationally Scarce | 2 | 10km | 1910 | 1936 |
| | | RedList_GB-Lr(NT) | | | | |
| Carex binervis | Green-ribbed Sedge | Local Spp of Cons Conc | 2 | 10km | 1948 | 1948 |
| Carex caryophyllea | Spring-sedge | Local Spp of Cons Conc | 5 | 2km, 10km | 1920 | 1965 |
| Carex panicea | Carnation Sedge | Local Spp of Cons Conc | 3 | 2km, 10km | 1947 | 1965 |
| Carex paniculata | Greater Tussock-sedge | Local Spp of Cons Conc | 3 | 10km | 1945 | 1995 |
| Carex paniculata x | Sedge | Nationally Rare | 1 | 10km | 1880 | 1880 |
| appropinquata = C. x rotae | | RedList_GB-VU | | | | |
| Carex riparia | Greater Pond-sedge | Local Spp of Cons Conc | 5 | 10km | 1945 | 05/05/2002 |
| Catabrosa aquatica | Whorl-grass | Local Spp of Cons Conc | 3 | 10km | 1915 | 1940 |
| Centaurea cyanus | Cornflower | NERC Act Section 41 | 7 | 10km | 1820 | 1992 |
| | | BAP Priority National | | | | |
| Cephalanthera damasonium | White Helleborine | NERC Act Section 41 | 1 | 10km | 1944 | 1944 |
| | | BAP Priority National | | | | |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| | | RedList_GB-VU | | | | |
| Ceratocapnos claviculata | Climbing Corydalis | Local Spp of Cons Conc | 3 | 10km | 1947 | 1979 |



| Taxon Name | Common Name | Designation | Total number of | Record accuracy | Date of oldest | Date of most |
|--|--------------------------------------|---|-----------------|-----------------|----------------|---------------|
| | | | occurrences | | record | recent record |
| Chamaemelum nobile | Chamomile | NERC Act Section 41 | 3 | 10km | 1890 | 1939 |
| | | BAP Priority National | | | | |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| | | RedList_GB-VU | | | | |
| Chenopodium bonus-henricus | Good-King-Henry | RedList_GB-VU | 3 | 10km | 1943 | 1994 |
| Chenopodium glaucum | Oak-leaved Goosefoot | Nationally Scarce RedList_GB-VU | 1 | 10km | 1949 | 1949 |
| Chenopodium murale | Nettle-leaved Goosefoot | Local Spp of Cons Conc RedList_GB-VU | 5 | 10km | 1951 | 1991 |
| Chrysosplenium oppositifolium | Opposite-leaved Golden- saxifrage | Local Spp of Cons Conc | 2 | 10km | 1936 | 1955 |
| Clinopodium acinos | Basil Thyme | NERC Act Section 41 | 2 | 10km | 1953 | 1981 |
| | | BAP Priority National | - | 201111 | 2000 | 1001 |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| | | RedList_GB-VU | | | | |
| Clinopodium ascendens | Common Calamint | Local Spp of Cons Conc | 1 | 10km | 1906 | 1906 |
| Clinopodium calamintha | Lesser Calamint | BAP Priority London | 5 | 10km | 1903 | 04/07/1998 |
| | | Local Spp of Cons Conc | | | | |
| | | Nationally Scarce | | | | |
| | | RedList_GB-VU | | | | |
| Coeloglossum viride | Frog Orchid | NERC Act Section 41 | 1 | 10km | 1906 | 1906 |
| | | BAP Priority National | | | | |
| | | Local Spp of Cons Conc | | | | |
| | | RedList_GB-VU | | | | |
| Convallaria majalis | Lily-of-the-valley | Local Spp of Cons Conc | 5 | 2km, 10km | 1950 | 1978 |
| Dactylorhiza maculata subsp. ericetorum | Heath Spotted-Orchid | Local Spp of Cons Conc | 6 | 1km, 10km | 1900 | 2001 |
| Dianthus armeria | Deptford Pink | NERC Act Section 41 | 4 | 10km | 1860 | 1909 |
| | | BAP Priority National | | | | |
| | | W&CA Sch8 | | | | |
| | | Local Spp of Cons Conc | | | | |
| | | Nationally Scarce | | | | |
| | | RedList_GB-EN | | | | |
| Dipsacus pilosus | Small Teasel | Local Spp of Cons Conc | 6 | 10km | 1913 | 04/10/1997 |
| Draba muralis | Wall Whitlowgrass | Nationally Scarce | 1 | 10km | 1951 | 1951 |
| Eleocharis acicularis | Needle Spike-rush | Local Spp of Cons Conc | 7 | 1km, 2km, 10km | 14/07/1929 | 2003 |
| Epilobium palustre | Marsh Willowherb | Local Spp of Cons Conc | 3 | 10km | 1950 | 1972 |
| Epipactis purpurata | Violet Helleborine | Local Spp of Cons Conc | 6 | 1km, 2km, 10km | 1872 | 1987 |
| Erica cinerea | Bell Heather | Local Spp of Cons Conc | 2 | 10km | 1965-1976 | 1977 |
| Erica tetralix | Cross-leaved Heath | Local Spp of Cons Conc | 3 | 10km | 1944 | 02/08/1998 |
| Eriophorum angustifolium | Common Cottongrass | Local Spp of Cons Conc | 2 | 10km | 1945 | 1947 |
| Euphorbia exigua | Dwarf Spurge | RedList_GB-Lr(NT) | 1 | 10km | 04/07/1998 | 04/07/1998 |
| Filago minima | Small Cudweed | Local Spp of Cons Conc | 3 | 10km | 1946 | 02/08/1998 |
| Fritillaria meleagris | Fritillary | Nationally Scarce | 7 | 1km, 10km | 1872 | 2002 |
| Fumaria purpurea | Purple Ramping-fumitory | NERC Act Section 41 | 3 | 10km | 1892 | 1892 |
| | | BAP Priority National | | | | |
| | | Nationally Scarce | | | | |

| Taxon Name | Common Name | Designation | Total number of occurrences | Record accuracy | Date of oldest record | Date of most recent record |
|------------------------------------|---------------------------|------------------------|-----------------------------|-----------------|--------------------------|-------------------------------|
| Galeopsis angustifolia | Red Hemp-nettle | NERC Act Section 41 | 7 | 10km | 1874 | 1955 |
| | | BAP Priority National | | | | |
| | | Local Spp of Cons Conc | | | | |
| | | Nationally Scarce | | | | |
| | | RedList_GB-CR | | | | |
| Genista anglica | Petty Whin | Local Spp of Cons Conc | 11 | 1km, 2km, 10km | 1950 | 2003 |
| | | RedList_GB-Lr(NT) | | | | |
| Genista tinctoria subsp. tinctoria | Dyer's Greenweed | Local Spp of Cons Conc | 2 | 10km | 04/07/1998 | 10/06/2001 |
| Gentianella germanica | Chiltern Gentian | Nationally Scarce | 3 | 10km | 1945 | 1977 |
| | | RedList_GB-VU | | | | |
| Geranium columbinum | Long-stalked Crane's-bill | Local Spp of Cons Conc | 4 | 10km | 1951 | 2003 |
| Geranium pratense | Meadow Crane's-bill | Local Spp of Cons Conc | 7 | 1km, 10km | 1945 | 1990 |
| Glebionis segetum | Corn Marigold | RedList_GB-VU | 6 | 10km | 1902 | 1993 |
| Gnaphalium sylvaticum | Heath Cudweed | RedList_GB-EN | 4 | 10km | 16/08/1924 | 25/09/1998 |
| Gymnadenia conopsea | Fragrant Orchid | Local Spp of Cons Conc | 2 | 10km | 1946 | 1965 |
| Helleborus foetidus | Stinking Hellebore | Nationally Scarce | 1 | 10km | 1999 | 1999 |
| Hieracium diaphanum | Petite-leaved Hawkweed | Nationally Rare | 1 | 1km | 1920 | 1920 |
| Hordelymus europaeus | Wood Barley | Nationally Scarce | 1 | 10km | 1935 | 1935 |
| Hyacinthoides non-scripta | Bluebell | W&CA Sch8 | 8 | 1km, 2km, 10km | 1965-1976 | 06/10/2002 |
| | | Local Spp of Cons Conc | | | | |
| Hydrocharis morsus-ranae | Frogbit | RedList_GB-VU | 4 | 10km | 1945 | 1965 |
| Hydrocotyle vulgaris | Marsh Pennywort | Local Spp of Cons Conc | 4 | 10km | 1945 | 24/05/2003 |
| Hyoscyamus niger | Henbane | Local Spp of Cons Conc | 2 | 10km | 1917 | 1935 |
| | | RedList_GB-VU | | | | |
| Isatis tinctoria | Woad | Nationally Scarce | 1 | 10km | 1995 | 1995 |
| Isolepis fluitans | Floating Club-rush | Local Spp of Cons Conc | 1 | 10km | 1983 | 1983 |
| Jasione montana | Sheep's-bit | Local Spp of Cons Conc | 1 | 10km | 07/09/1912 | 07/09/1912 |
| Juncus squarrosus | Heath Rush | Local Spp of Cons Conc | 1 | 10km | 1947 | 1947 |
| Koeleria macrantha | Crested Hair-grass | Local Spp of Cons Conc | 2 | 10km | 1947 | 04/07/1998 |
| Lathyrus aphaca | Yellow Vetchling | Local Spp of Cons Conc | 2 | 10km | 1907 | 1995 |
| | | Nationally Scarce | | | | |
| | | RedList_GB-VU | | | | |
| Lathyrus linifolius | Bitter-vetch | Local Spp of Cons Conc | 5 | 2km, 10km | 1910 | 1990 |
| Lepidium latifolium | Dittander | Nationally Scarce | 15 | 1km, 10km | 1937 | 2003 |
| Lepidium ruderale | Narrow-leaved Pepperwort | Local Spp of Cons Conc | 5 | 10km | 1946 | 1997 |
| Linaria repens | Pale Toadflax | Local Spp of Cons Conc | 1 | 10km | 2001 | 2001 |
| Lolium temulentum | Darnel | NERC Act Section 41 | 1 | 10km | 1965-1976 | 1965-1976 |
| | | BAP Priority National | | | | |
| | | Nationally Rare | | | | |
| | | RedList_GB-CR | | | | |
| Meconopsis cambrica | Welsh Poppy | Nationally Scarce | 2 | 1km, 10km | 1947 | 1981 |
| Medicago polymorpha | Toothed Medick | Local Spp of Cons Conc | 2 | 10km | 1911 | 1961 |
| | | Nationally Scarce | | 4.01 | 1010 | 1010 |
| Medicago sativa subsp. falcata | Sickle Medick | Nationally Scarce | 1 | 10km | 1912 | 1912 |
| Melampyrum pratense | Common Cow-wheat | Local Spp of Cons Conc | 6 | 1km, 10km | 1965-1976 | 1995 |
| Mentha pulegium | Pennyroyal | NERC Act Section 41 | 1 | 1km | 1880 | 1880 |
| | | BAP Priority National | | | | |
| | | W&CA Sch8 | | | | |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| | | Nationally Scarce | | | | |
| | | RedList_GB-EN | | | | |

| Taxon Name | Common Name | Designation | Total number of occurrences | Record accuracy | Date of oldest record | Date of most recent record |
|----------------------------------|-------------------------|------------------------------|-----------------------------|-----------------|--------------------------|-------------------------------|
| Minuartia hybrida | Fine-leaved Sandwort | NERC Act Section 41 | 2 | 10km | 1951 | 1979 |
| , | | BAP Priority National | | | | |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| | | Nationally Scarce | | | | |
| | | RedList_GB-EN | | | | |
| Moenchia erecta | Upright Chickweed | Local Spp of Cons Conc | 2 | 10km | 1936 | 1940 |
| Myosurus minimus | Mousetail | RedList_GB-VU | 1 | 10km | 1934 | 1934 |
| Myriophyllum alterniflorum | Alternate Water-milfoil | Local Spp of Cons Conc | 1 | 10km | 2002 | 2002 |
| Myriophyllum verticillatum | Whorled Water-milfoil | Local Spp of Cons Conc | 3 | 10km | 1911 | 1981 |
| | | RedList_GB-VU | | | | |
| Narcissus pseudonarcissus | Daffodil | Local Spp of Cons Conc | 4 | 1km, 10km | 1950 | 2002 |
| Nepeta cataria | Cat-mint | RedList_GB-VU | 1 | 10km | 1999 | 1999 |
| Oenanthe fistulosa | Tubular Water-dropwort | NERC Act Section 41 | 1 | 10km | 1910 | 1910 |
| 2 | | BAP Priority National | | | | |
| | | RedList_GB-VU | | | | |
| Oenanthe fluviatilis | River Water-dropwort | BAP Priority London | 1 | 10km | 24/05/2003 | 24/05/2003 |
| | | Local Spp of Cons Conc | | | | |
| Ononis spinosa | Spiny Restharrow | Local Spp of Cons Conc | 5 | 1km, 2km, 10km | 1950 | 1976 |
| Ophrys insectifera | Fly Orchid | NERC Act Section 41 | 9 | 2km, 10km | 23/05/1889 | 1902 |
| | | BAP Priority National | | | | |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| | | RedList_GB-VU | | | | |
| Orchis mascula | Early-purple Orchid | Local Spp of Cons Conc | 1 | 10km | 1945 | 1945 |
| Orchis morio | Green-winged Orchid | Local Spp of Cons Conc | 1 | 10km | 22/05/1902 | 22/05/1902 |
| | | RedList_GB-Lr(NT) | | | | |
| Papaver argemone | Prickly Poppy | RedList_GB-VU | 2 | 10km | 1982 | 1986 |
| Paris quadrifolia | Herb-paris | Local Spp of Cons Conc | 3 | 2km, 10km | 12/05/1934 | 1965 |
| Pedicularis sylvatica | Lousewort | Local Spp of Cons Conc | 7 | 2km, 10km | 1944 | 22/05/1983 |
| Pedicularis sylvatica subsp. | Lousewort | Local Spp of Cons Conc | 3 | 10km | 1983 | 1994 |
| sylvatica | | | | | | |
| Persicaria mitis | Tasteless Water-pepper | Local Spp of Cons Conc | 1 | 10km | 1975 | 1975 |
| | | Nationally Scarce | | | | |
| | | RedList_GB-VU | | | | |
| Polygala serpyllifolia | Heath Milkwort | Local Spp of Cons Conc | 11 | 2km, 10km | 1939 | 1981 |
| Polygonatum multiflorum | Solomon's-seal | Local Spp of Cons Conc | 1 | 10km | 1995 | 1995 |
| Polygonatum odoratum | Angular Solomon's-seal | Nationally Scarce | 1 | 10km | 1995 | 1995 |
| Polygonum rurivagum | Cornfield Knotgrass | Local Spp of Cons Conc | 1 | 10km | 1960 | 1960 |
| Populus nigra subsp. betulifolia | Black Poplar | BAP Priority London | 1 | 10km | 1995 | 1995 |
| Potamogeton lucens | Shining Pondweed | Local Spp of Cons Conc | 9 | 1km, 2km, 10km | 1934 | 1976 |
| Potamogeton perfoliatus | Perfoliate Pondweed | Local Spp of Cons Conc | 2 | 10km | 1945 | 1945 |
| Potamogeton polygonifolius | Bog Pondweed | Local Spp of Cons Conc | 3 | 10km | 1892 | 1970 |
| Potentilla anglica | Trailing Tormentil | Local Spp of Cons Conc | 5 | 10km | 1900 | 1982 |
| Potentilla argentea | Hoary Cinquefoil | Local Spp of Cons Conc | 1 | 10km | 1900 | 1900 |
| | | RedList_GB-Lr(NT) | | | | |
| Ranunculus arvensis | Corn Buttercup | NERC Act Section 41 | 9 | 10km | 1900 | 1989 |
| | | BAP Priority National | - | - | | |
| | | RedList_GB-CR | | | | |
| Ranunculus fluitans | River Water-crowfoot | Local Spp of Cons Conc | 2 | 10km | 1984 | 1984 |
| Ranunculus hederaceus | Ivy-leaved Crowfoot | Local Spp of Cons Conc | 3 | 10km | 1869 | 1928 |
| Rorippa islandica | Northern Yellow-cress | Nationally Scarce | 4 | 1km, 10km | 1965-1976 | 1965-1976 |



| Taxon Name | Common Name | Designation | Total number of | Record accuracy | Date of oldest | Date of most |
|--------------------------|-------------------------|---|-----------------|-----------------|----------------|---------------|
| | | | occurrences | | record | recent record |
| Rosa obtusifolia | Round-leaved Dog-rose | Local Spp of Cons Conc | 5 | 1km, 10km | 1945 | 1947 |
| Rosa spinosissima | Burnet Rose | Local Spp of Cons Conc | 2 | 1km, 10km | 1998 | 1998 |
| Rosa stylosa | Short-styled Field-rose | Local Spp of Cons Conc | 1 | 1km | 1976 | 1976 |
| Rubus britannicus | Bramble | Nationally Rare | 1 | 10km | 11/10/1998 | 11/10/1998 |
| Rumex palustris | Marsh Dock | Local Spp of Cons Conc | 1 | 10km | 2004 | 2004 |
| Sagittaria sagittifolia | Arrowhead | Local Spp of Cons Conc | 2 | 1km, 10km | 1949 | 1965-1976 |
| Salix aurita | Eared Willow | Local Spp of Cons Conc | 3 | 1km, 10km | 1924 | 2002 |
| Salix repens var. repens | Willow | Local Spp of Cons Conc | 6 | 2km, 10km | 1948 | 1965 |
| Scandix pecten-veneris | Shepherd's-needle | NERC Act Section 41 | 3 | 10km | 1884 | 1927 |
| | | BAP Priority National | | | | |
| | | Local Spp of Cons Conc | | | | |
| | | RedList_GB-CR | | | | |
| Scleranthus annuus | Annual Knawel | NERC Act Section 41 | 15 | 10km | 1869 | 1987 |
| | | BAP Priority National | | | | |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| Scutellaria minor | Lesser Skullcap | RedList_GB-EN Local Spp of Cons Conc | 10 | 1km, 2km, 10km | 1891 | 1989 |
| Sedum forsterianum | Rock Stonecrop | Nationally Scarce | 10 | 10km | 1946 | 1989 |
| Sedum telephium | Orpine | Local Spp of Cons Conc | 4 | 10km | 1940 | 1940 |
| Serratula tinctoria | Saw-wort | Local Spp of Cons Conc | 3 | 2km, 10km | 1903 | 1965 |
| Silene gallica | Small-flowered Catchfly | NERC Act Section 41 | 1 | 10km | 1920 | 1905 |
| Silene guincu | Sinal-nowered Catching | BAP Priority National | T | TOKI | 1900 | 1900 |
| | | Nationally Scarce | | | | |
| | | RedList_GB-EN | | | | |
| Sium latifolium | Greater Water-parsnip | NERC Act Section 41 | 3 | 10km | 1911 | 1945 |
| | | BAP Priority National | | | | |
| | | Nationally Scarce | | | | |
| | | , RedList_GB-EN | | | | |
| Spergula arvensis | Corn Spurrey | | 3 | 2km, 10km | 1946 | 1991 |
| Stachys arvensis | Field Woundwort | | 2 | 2km, 10km | 1965 | 1965 |
| Stellaria neglecta | Greater Chickweed | Local Spp of Cons Conc | 2 | 2km, 10km | 1946 | 1946 |
| Stellaria palustris | Marsh Stitchwort | NERC Act Section 41 | 2 | 10km | 1839 | 20/09/1890 |
| | | BAP Priority National | | | | |
| | | RedList_GB-VU | | | | |
| Stratiotes aloides | Water-soldier | Nationally Rare | 4 | 10km | 1889 | 1995 |
| | | RedList_GB-Lr(NT) | | | | |
| Succisa pratensis | Devil's-bit Scabious | Local Spp of Cons Conc | 6 | 1km, 10km | 1965-1976 | 1998 |
| Teesdalia nudicaulis | Shepherd's Cress | RedList_GB-Lr(NT) | 1 | 10km | 1893 | 1893 |
| Thalictrum flavum | Common Meadow-rue | Local Spp of Cons Conc | 5 | 10km | 1902 | 1947 |
| Torilis arvensis | Spreading Hedge-parsley | NERC Act Section 41 | 6 | 10km | 1889 | 1986 |
| | | BAP Priority National | | | | |
| | | Nationally Scarce | | | | |
| | | RedList_GB-EN | | | | |
| Ulex minor | Dwarf Gorse | Local Spp of Cons Conc | 8 | 1km, 2km, 10km | 1921 | 1999 |
| Valeriana dioica | Marsh Valerian | Local Spp of Cons Conc | 2 | 10km | 1947 | 1957 |
| Valeriana officinalis | Common Valerian | Local Spp of Cons Conc | 3 | 1km, 2km, 10km | 1965-1976 | 1965-1976 |
| Valerianella rimosa | Broad-fruited Cornsalad | NERC Act Section 41 | 2 | 1km, 10km | 1885 | 1887 |
| | | BAP Priority National | | | | |
| | | Nationally Scarce | | | | |
| | | RedList_GB-EN | | . | / / : | |
| Veronica scutellata | Marsh Speedwell | Local Spp of Cons Conc | 4 | 2km, 10km | 14/06/1919 | 24/06/1989 |

| Taxon Name | Common Name | Designation | Total number of occurrences | Record accuracy | Date of oldest record | Date of most recent record |
|--------------------------------|--------------------------|--|--------------------------------|-----------------|--------------------------|-------------------------------|
| Vicia lutea | Yellow-vetch | Nationally Scarce RedList_GB-Lr(NT) | 1 | 10km | 1979 | 1979 |
| Viola canina subsp. canina | Heath Dog-Violet | Local Spp of Cons Conc RedList_GB-Lr(NT) | 9 | 2km, 10km | 1902 | 1957 |
| Viola tricolor subsp. tricolor | Pansy | | 2 | 10km | 10/09/1910 | 1946 |
| /iscum album | Mistletoe | BAP Priority London Local Spp of Cons Conc | 8 | 1km, 10km | 1928 | 2002 |
| nvertebrates - Lepidoptera (l | Buttorflioc) | | | | | |
| Apatura iris | Purple Emperor | Local Spp of Cons Conc | 109 | 1km, 10km | 14/07/2002 | 11/08/2013 |
| | | RedList_GB-Lr(NT) | | | | |
| Argynnis paphia | Silver-washed Fritillary | Local Spp of Cons Conc | 16 | 1km | 12/07/2003 | 27/08/2013 |
| Aricia agestis | Brown Argus | Local Spp of Cons Conc | 16 | 1km | 07/08/2008 | 08/08/2013 |
| Coenonympha pamphilus | Small Heath | NERC Act Section 41 BAP Priority National BAP Priority London Local Spp of Cons Conc RedList_GB-Lr(NT) | 28 | 1km | 24/06/1996 | 25/06/2013 |
| Limenitis camilla | White Admiral | NERC Act Section 41 BAP Priority National BAP Priority London Local Spp of Cons Conc RedList_GB-VU | 255 | 1km | 1995 | 08/08/2013 |
| Melanargia galathea | Marbled White | Local Spp of Cons Conc | 74 | 1km | 12/07/2003 | 24/07/2013 |
| Melitaea athalia | Heath Fritillary | NERC Act Section 41 BAP Priority National W&CA Sch5 Sec 9.1k/i W&CA Sch5 Sec 9.1t WCA5/9.4.a W&CA Sch5 Sec 9.4b W&CA Sch5 Sec 9.4c BAP Priority London Local Spp of Cons Conc RedList_GB-EN | 4 | 1km | 09/07/2005 | 10/07/2005 |
| Satyrium w-album | White-letter Hairstreak | NERC Act Section 41 BAP Priority National BAP Priority London Local Spp of Cons Conc RedList_GB-EN | 2 | 1km | 19/07/2010 | 19/07/2010 |
| Invertebrates - Lepidoptera (l | Moths) | | | | | |
| Acronicta psi | Grey Dagger | NERC Act Section 41 BAP Priority National BAP Priority London Local Spp of Cons Conc | 4 | 1km, 10km | 1918 | 1961 |
| Acronicta rumicis | Knot Grass | NERC Act Section 41 BAP Priority National BAP Priority London Local Spp of Cons Conc | 7 | 10km | 1940 | 1978 |
| Adscita statices | Forester | NERC Act Section 41 BAP Priority National BAP Priority London Local Spp of Cons Conc | 1 | 10km | 31/12/1940 | 31/12/1940 |

| Taxon Name | Common Name | Designation | Total number of occurrences | Record accuracy | Date of oldest record | Date of most recent record |
|-------------------------|-------------------------|------------------------|-----------------------------|-----------------|--------------------------|-------------------------------|
| Agrochola helvola | Flounced Chestnut | NERC Act Section 41 | 3 | 10km | 1930 | 1952 |
| | | BAP Priority National | | | | |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| Agrochola litura | Brown-spot Pinion | NERC Act Section 41 | 3 | 10km | 1940 | 1961 |
| | | BAP Priority National | | | | |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| grochola lychnidis | Beaded Chestnut | NERC Act Section 41 | 5 | 10km | 1940 | 1978 |
| | | BAP Priority National | | | | |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| Allophyes oxyacanthae | Green-brindled Crescent | NERC Act Section 41 | 7 | 1km, 10km | 1918 | 1978 |
| | | BAP Priority National | | | | |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| Amphipoea oculea | Ear Moth | NERC Act Section 41 | 2 | 10km | 1940 | 1977 |
| | | BAP Priority National | | | | |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| Amphipyra tragopoginis | Mouse Moth | NERC Act Section 41 | 4 | 10km | 1940 | 1978 |
| | | BAP Priority National | | | | |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| Apamea anceps | Large Nutmeg | NERC Act Section 41 | 3 | 10km | 1940 | 1961 |
| | | BAP Priority National | | | | |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| Apamea remissa | Dusky Brocade | NERC Act Section 41 | 3 | 10km | 1940 | 1961 |
| | | BAP Priority National | | | | |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| Apamea sublustris | Reddish Light Arches | Local Spp of Cons Conc | 2 | 10km | 1940 | 1952 |
| Aplota palpella | Scarce Brown Streak | NERC Act Section 41 | 1 | 10km | 1855 | 1855 |
| | | BAP Priority National | | | | |
| Apoda limacodes | Festoon | Local Spp of Cons Conc | 1 | 10km | 1940 | 1940 |
| Aporophyla lutulenta | Deep-brown Dart | NERC Act Section 41 | 1 | 10km | 1940 | 1940 |
| | | BAP Priority National | | | | |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| Arctia caja | Garden Tiger | NERC Act Section 41 | 6 | 10km | 1940 | 1978 |
| | | BAP Priority National | | | | |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| Arenostola phragmitidis | Fen Wainscot | Local Spp of Cons Conc | 1 | 10km | 02/07/1905 | 02/07/1905 |
| Asteroscopus sphinx | Sprawler | NERC Act Section 41 | 1 | 1km | 1940 | 1940 |
| | | BAP Priority National | | | | |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| Atethmia centrago | Centre-barred Sallow | NERC Act Section 41 | 2 | 10km | 1940 | 1952 |
| | | BAP Priority National | | | | |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |

| Taxon Name | Common Name | Designation | Total number of occurrences | Record accuracy | Date of oldest record | Date of most recent record |
|------------------------|--------------------------|--|--------------------------------|-----------------|--------------------------|-------------------------------|
| Brachylomia viminalis | Minor Shoulder-knot | NERC Act Section 41 | 1 | 10km | 1940 | 1940 |
| | | BAP Priority National | | | | |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| Callistege mi | Mother Shipton | Local Spp of Cons Conc | 2 | 10km | 1940 | 30/05/2004 |
| Caradrina morpheus | Mottled Rustic | NERC Act Section 41 | 4 | 10km | 1918 | 1961 |
| | | BAP Priority National | | | | |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| Catarhoe cuculata | Royal Mantle | Local Spp of Cons Conc | 1 | 10km | 1940 | 1940 |
| Celaena leucostigma | Crescent | NERC Act Section 41 | 1 | 10km | 1940 | 1940 |
| | | BAP Priority National | | | | |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| Chesias legatella | Streak | NERC Act Section 41 | 1 | 10km | 1940 | 1940 |
| | | BAP Priority National | | | | |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| Chiasmia clathrata | Latticed Heath | NERC Act Section 41 | 4 | 10km | 1918 | 1961 |
| | | BAP Priority National | | | | |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| Cosmia diffinis | White-spotted Pinion | NERC Act Section 41 | 3 | 10km | 1940 | 1977 |
| | | BAP Priority National | | | | |
| Cossus cossus | Goat Moth | NERC Act Section 41 | 2 | 10km | 1940 | 31/12/1940 |
| | | BAP Priority National | | | | |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| Cucullia absinthii | Wormwood | Local Spp of Cons Conc | 1 | 10km | 1940 | 1940 |
| Cymatophorima diluta | Oak Lutestring | NERC Act Section 41 | 2 | 10km | 1940 | 1952 |
| | | BAP Priority National | | | | |
| | | BAP Priority London | | | | |
| Diamain muhi | Care II Carrows and at | Local Spp of Cons Conc | | 101 | 1020 | 4070 |
| Diarsia rubi | Small Square-spot | NERC Act Section 41 | 5 | 10km | 1930 | 1978 |
| | | BAP Priority National BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| Dichonia aprilina | Merveille Du Jour | Local Spp of Cons Conc | 1 | 10km | 1940 | 1940 |
| Dicycla oo | Heart Moth | NERC Act Section 41 | 2 | 10km | 1940 | 1940 |
| | | BAP Priority National | 2 | TOKIII | 1952 | 1901 |
| Diloba caeruleocephala | Figure of Eight | NERC Act Section 41 | 1 | 10km | 1940 | 1940 |
| | Figure of Eight | BAP Priority National | 1 | TOKIII | 1940 | 1940 |
| | | BAP Priority London | | | | |
| Earias clorana | Cream-bordered Green Pea | Local Spp of Cons Conc | 1 | 10km | 1940 | 1940 |
| Ecliptopera silaceata | Small Phoenix | NERC Act Section 41 | 4 | 10km | 1918 | 1940 |
| | | BAP Priority National | 4 | TOKIII | 1910 | 1301 |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| Elegia similella | White-barred Knot-horn | Nationally Notable B | 1 | 10km | 1957 | 1957 |
| Ennomos erosaria | September Thorn | NERC Act Section 41 | 2 | 1km, 10km | 1940 | 1957 |
| | | BAP Priority National | <u>د</u> | TVIII, TOVIII | 10+0 | 1332 |
| | | BAP Priority London | | | | |
| | | | | | | |

| Taxon Name | Common Name | Designation | Total number of occurrences | Record accuracy | Date of oldest record | Date of most recent record |
|--------------------------|---------------------------|------------------------------|--------------------------------|-----------------|--------------------------|-------------------------------|
| Ennomos fuscantaria | Dusky Thorn | NERC Act Section 41 | 5 | 10km | 1940 | 1978 |
| , | , | BAP Priority National | | | | |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| Ennomos quercinaria | August Thorn | NERC Act Section 41 | 2 | 10km | 1940 | 1961 |
| · | | BAP Priority National | | | | |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| Eudonia delunella | Pied Grey | Nationally Notable B | 1 | 10km | 1957 | 1957 |
| ulithis mellinata | Spinach | NERC Act Section 41 | 4 | 1km, 10km | 1940 | 07/07/2013 |
| | | BAP Priority National | | , | | |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| Euphyia biangulata | Cloaked Carpet | Local Spp of Cons Conc | 1 | 10km | 1940 | 1940 |
| Eupithecia plumbeolata | Lead-coloured Pug | Local Spp of Cons Conc | 1 | 10km | 1940 | 1940 |
| Eupithecia pygmaeata | Marsh Pug | Local Spp of Cons Conc | 1 | 10km | 1940 | 1940 |
| Eupithecia subumbrata | Shaded Pug | Local Spp of Cons Conc | 1 | 10km | 1940 | 1940 |
| Euxoa nigricans | Garden Dart | NERC Act Section 41 | 5 | 10km | 1940 | 1978 |
| | | BAP Priority National | - | | | |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| Euxoa tritici | White-line Dart | NERC Act Section 41 | 1 | 10km | 1940 | 1940 |
| | | BAP Priority National | | | | |
| Gastropacha quercifolia | Lappet | Local Spp of Cons Conc | 1 | 10km | 1940 | 1940 |
| Graphiphora augur | Double Dart | NERC Act Section 41 | 7 | 1km, 10km | 1918 | 1977 |
| | | BAP Priority National | | , | | |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| Heliophobus reticulata | Bordered Gothic | NERC Act Section 41 | 1 | 10km | 1952 | 1952 |
| , | | BAP Priority National | | | | |
| Hemaris tityus | Narrow-bordered Bee Hawk- | NERC Act Section 41 | 1 | 10km | 1940 | 1940 |
| , | moth | BAP Priority National | | | | |
| Hemistola chrysoprasaria | Small Emerald | NERC Act Section 41 | 2 | 10km | 1940 | 1952 |
| , , | | BAP Priority National | | | | |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| Hepialus humuli | Ghost Moth | NERC Act Section 41 | 6 | 10km | 1918 | 1969 |
| | | BAP Priority National | | | | |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| Hoplodrina blanda | Rustic | NERC Act Section 41 | 5 | 10km | 1918 | 1961 |
| | | BAP Priority National | | | | |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| Hydraecia micacea | Rosy Rustic | NERC Act Section 41 | 6 | 10km | 1930 | 1978 |
| | | BAP Priority National | | | | |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| Hypena rostralis | Buttoned Snout | Local Spp of Cons Conc | 1 | 10km | 1940 | 1940 |
| Hypomecis roboraria | Great Oak Beauty | Local Spp of Cons Conc | 3 | 1km, 10km | 1930 | 1940 |
| Lacanobia suasa | Dog's Tooth | Local Spp of Cons Conc | 1 | 10km | 1952 | 1952 |
| Lampropteryx suffumata | Water Carpet | Local Spp of Cons Conc | 1 | 10km | 1940 | 1940 |

| Taxon Name | Common Name | Designation | Total number of occurrences | Record accuracy | Date of oldest record | Date of most recent record |
|--------------------------------------|----------------------------------|---|--------------------------------|-----------------|--------------------------|-------------------------------|
| Lycia hirtaria | Brindled Beauty | NERC Act Section 41 | 5 | 1km, 10km | 1930 | 1977 |
| | | BAP Priority National | | , | | |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| Macaria wauaria | V-moth | NERC Act Section 41 | 2 | 10km | 1940 | 1952 |
| | | BAP Priority National | | | | |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| Macrothylacia rubi | Fox Moth | Local Spp of Cons Conc | 1 | 10km | 31/12/1940 | 31/12/1940 |
| Malacosoma neustria | Lackey | NERC Act Section 41 | 4 | 10km | 1918 | 1978 |
| | | BAP Priority National | | | | |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| Melanchra persicariae | Dot Moth | NERC Act Section 41 | 6 | 10km | 1918 | 1978 |
| | | BAP Priority National | | | | |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| Melanchra pisi | Broom Moth | NERC Act Section 41 | 5 | 10km | 1918 | 1961 |
| | | BAP Priority National | | | | |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| Melanthia procellata | Pretty Chalk Carpet | NERC Act Section 41 | 1 | 10km | 1940 | 1940 |
| | | BAP Priority National | | | | |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| Mesoligia literosa | Rosy Minor | NERC Act Section 41 | 1 | 10km | 1940 | 1940 |
| | | BAP Priority National | | | | |
| | | BAP Priority London | | | | |
| • • • • • | | Local Spp of Cons Conc | | 4.01 | 10.10 | 1061 |
| Mythimna comma | Shoulder-striped Wainscot | NERC Act Section 41 | 3 | 10km | 1940 | 1961 |
| | | BAP Priority National | | | | |
| | | BAP Priority London | | | | |
| Odazia atrata | Chimmon Surger | Local Spp of Cons Conc | 1 | 101.00 | 21/12/10/0 | 21/12/1040 |
| Odezia atrata | Chimney Sweep | Local Spp of Cons Conc | 1 | 10km | 31/12/1940 | 31/12/1940 |
| Orthosia gracilis | Powdered Quaker | NERC Act Section 41 | 4 | 10km | 1940 | 1961 |
| | | BAP Priority National BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| Orthosia miniosa | Blossom Underwing | Local Spp of Cons Conc | 3 | 10km | 1940 | 1961 |
| Orthosia opima | Northern Drab | Local Spp of Cons Conc | 3 | 10km | 1940 | 1961 |
| Orthosia opinia Orthosia populeti | Lead-coloured Drab | Local Spp of Cons Conc | 3 | 10km | 1940 | 1961 |
| Pachycnemia hippocastanaria | Horse Chestnut | Local Spp of Cons Conc | | 10km | 1940 | 1977 |
| , ,, | Waved Black | | 1 | | | |
| Parascotia fuliginaria | | Local Spp of Cons Conc | 1 | 10km | 1940 | 1940 |
| Pechipogo strigilata | Common Fan-foot | NERC Act Section 41 | 1 | 10km | 1940 | 1940 |
| Pediasia contaminella | Waste Grass-veneer | BAP Priority National | 1 | 10km | 1957 | 1957 |
| | | Nationally Notable B | 1 | | | |
| Pelurga comitata | Dark Spinach | NERC Act Section 41 | 4 | 1km, 10km | 1940 | 1978 |
| | | BAP Priority National | | | | |
| | | BAP Priority London Local Spp of Cons Conc | | | | |
| Daridag ancans | Creat Prominent | | 1 | 104 | 1040 | 1040 |
| Peridea anceps | Great Prominent Grass Rivulet | Local Spp of Cons Conc BAP Priority London | 1 | 10km 10km | 1940 1940 | 1940 1940 |
| Perizoma albulata | | | | | | |



| Taxon Name | Common Name | Designation | Total number of occurrences | Record accuracy | Date of oldest record | Date of most recent record |
|------------------------------------|----------------------|---|-----------------------------|-----------------|--------------------------|-------------------------------|
| Pexicopia malvella | Hollyhock Seed Moth | Nationally Notable B | 1 | 10km | 1959 | 1959 |
| Phytometra viridaria | Small Purple-barred | Local Spp of Cons Conc | 1 | 1km | 1940 | 1940 |
| Plagodis pulveraria | Barred Umber | Local Spp of Cons Conc | 1 | 10km | 1940 | 1940 |
| Polia bombycina | Pale Shining Brown | NERC Act Section 41 | 1 | 10km | 1940 | 1940 |
| , | Ū. | BAP Priority National | | | | |
| | | Local Spp of Cons Conc | | | | |
| Recurvaria nanella | Brindled Groundling | Nationally Notable B | 1 | 10km | 1959 | 1959 |
| Rheumaptera hastata | Argent & Sable | NERC Act Section 41 | 1 | 1km | 1940 | 1940 |
| | | BAP Priority National | | | | |
| Rheumaptera undulata | Scallop Shell | Local Spp of Cons Conc | 1 | 10km | 1940 | 1940 |
| Rhizedra lutosa | Large Wainscot | NERC Act Section 41 | 2 | 10km | 1940 | 1961 |
| | | BAP Priority National | | | | |
| Scopula immutata | Lesser Cream Wave | Local Spp of Cons Conc | 2 | 10km | 1930 | 1940 |
| Scotopteryx chenopodiata | Shaded Broad-bar | NERC Act Section 41 | 2 | 10km | 1918 | 1940 |
| | | BAP Priority National BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| Scotopteryx luridata | July Belle | Local Spp of Cons Conc | 1 | 10km | 1961 | 1961 |
| Sesia bembeciformis | Lunar Hornet Moth | Local Spp of Cons Conc | 1 | 10km | 1940 | 1940 |
| Sphinx ligustri | Privet Hawk-moth | Local Spp of Cons Conc | 1 | 10km | 1940 | 1940 |
| Spilosoma lubricipeda | White Ermine | NERC Act Section 41 | 10 | 1km, 10km | 1918 | 1977 |
| | | BAP Priority National | | , | | |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| Spilosoma luteum | Buff Ermine | NERC Act Section 41 | 7 | 10km | 1930 | 1978 |
| | | BAP Priority National | | | | |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| Synanthedon myopaeformis | Red-belted Clearwing | Local Spp of Cons Conc | 1 | 10km | 1940 | 1940 |
| Synanthedon tipuliformis | Currant Clearwing | Local Spp of Cons Conc | 1 | 10km | 1940 | 1940 |
| Tethea or Tha language servitia | Poplar Lutestring | Local Spp of Cons Conc | 1 | 10km | 1940 | 1940 |
| Tholera cespitis | Hedge Rustic | NERC Act Section 41 | 3 | 10km | 1940 | 1961 |
| | | BAP Priority National BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| Tholera decimalis | Feathered Gothic | NERC Act Section 41 | 5 | 10km | 1930 | 1961 |
| | | BAP Priority National | | | | |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| Thumatha senex | Round-winged Muslin | Local Spp of Cons Conc | 2 | 10km | 1918 | 1940 |
| Timandra comae | Blood-Vein | NERC Act Section 41 | 8 | 10km | 1939 | 1978 |
| | | BAP Priority National | | | | |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| Triphosa dubitata | Tissue | Local Spp of Cons Conc | 2 | 10km | 1940 | 1952 |
| Tyria jacobaeae | Cinnabar | NERC Act Section 41 | 5 | 10km | 1934 | 08/06/2004 |
| | | BAP Priority National | | | | |
| | | BAP Priority London Local Spp of Cons Conc | | | | |
| Tyta luctuosa | Four-spotted | NERC Act Section 41 | 2 | 10km | 1940 | 1952 |
| | | BAP Priority National | 2 | TOVIII | 1040 | 1952 |
| | | Local Spp of Cons Conc | | | | |

| Taxon Name | Common Name | Designation | Total number of | Record accuracy | Date of oldest | Date of most |
|----------------------|------------------------------|------------------------------|-----------------|-----------------|----------------|---------------|
| | | | occurrences | | record | recent record |
| Vatsonalla binaria | Oak Hook-tip | NERC Act Section 41 | 4 | 10km | 1940 | 1978 |
| | | BAP Priority National | | | | |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| Watsonalla cultraria | Barred Hook-tip | Local Spp of Cons Conc | 1 | 10km | 1940 | 1940 |
| Xanthia gilvago | Dusky-lemon Sallow | NERC Act Section 41 | 2 | 10km | 1940 | 1961 |
| | | BAP Priority National | | | | |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| Xanthia icteritia | Sallow | NERC Act Section 41 | 8 | 1km, 10km | 1918 | 30/03/2012 |
| | | BAP Priority National | | | | |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| Xanthorhoe biriviata | Balsam Carpet | BAP Priority London | 1 | 10km | 1940 | 1940 |
| | | Local Spp of Cons Conc | | | | |
| Xanthorhoe ferrugata | Dark-barred Twin-spot Carpet | NERC Act Section 41 | 6 | 10km | 1918 | 1961 |
| | | BAP Priority National | | | | |
| | | BAP Priority London | | | | |
| | | Local Spp of Cons Conc | | | | |
| Xestia castanea | Neglected Rustic | NERC Act Section 41 | 1 | 10km | 1940 | 1940 |
| | | BAP Priority National | | | | |
| Xestia ditrapezium | Triple-spotted Clay | Local Spp of Cons Conc | 1 | 10km | 1940 | 1940 |



4.2 Confidential Records

Records included in this section do not include any geographic content as it has been requested (by the data owners/originators) that the location remains confidential. The following information is provided to create a 'species alert' record highlighting the presence of a species in the search area.

In order to establish the presence of confidential records on the site in question, a second data search request must be submitted with a detailed site boundary. For further explanations of GiGL's Access to Data Policy and the confidential records please see the "Supporting Information" annex. For further details of the information provided in the report please contact GiGL directly - enquiries@gigl.org.uk.

| Taxon Name | Common Name | Designation | Total number of occurrences | Date of oldest record | Date of most recent record |
|-------------------------------|----------------------|---|-----------------------------|--------------------------|-------------------------------|
| Reptiles | | | | | |
| Vipera berus | Adder | NERC Act Section 41 BAP Priority National W&CA Sch5 Sec 9.1k/i BAP Priority London Local Spp of Cons Conc | 17 | 1997-2005 | 03/05/2010 |
| Birds | | | | | |
| Charadrius dubius | Little Ringed Plover | W&CA Sch1 Part 1 Local Spp of Cons Conc | 15 | 27/04/1994 | 31/05/2009 |
| Coccothraustes coccothraustes | Hawfinch | NERC Act Section 41 BAP Priority National Bird-Red BAP Priority London Local Spp of Cons Conc | 4 | 10/01/1982 | 13/07/1985 |
| Falco peregrinus | Peregrine | Birds Dir Anx 1 W&CA Sch1 Part 1 BAP Priority London Local Spp of Cons Conc | 2 | 11/03/2007 | 11/03/2007 |
| Falco subbuteo | Hobby | W&CA Sch1 Part 1 Local Spp of Cons Conc | 2 | 16/07/1983 | 18/10/2004 |



Species

| Taxon Name | Common Name | Designation | Total number of | Date of oldest | Date of most |
|---------------------------------------|-------------------------|------------------------|-----------------|----------------|---------------|
| | | | occurrences | record | recent record |
| Milvus milvus | Red Kite | Birds Dir Anx 1 | 2 | 24/07/2004 | 28/04/2005 |
| | | W&CA Sch1 Part 1 | | | |
| Poecile montana | Willow Tit | Bird-Red | 2 | 27/04/1986 | 1987 |
| Mammals (Bats) | | | | | |
| Myotis daubentonii | Daubenton's Bat | Cons Regs 2010 Sch2 | 10 | 13/01/1997 | 15/02/2002 |
| | | Hab&Spp Dir Anx 4 | | | |
| | | W&CA Sch5 Sec 9.4b | | | |
| | | W&CA Sch5 Sec 9.4c | | | |
| | | BAP Priority London | | | |
| | | Local Spp of Cons Conc | | | |
| Myotis nattereri | Natterer's Bat | Cons Regs 2010 Sch2 | 5 | 24/01/1999 | 04/01/2002 |
| , | | Hab&Spp Dir Anx 4 | | | , , |
| | | W&CA Sch5 Sec 9.4b | | | |
| | | W&CA Sch5 Sec 9.4c | | | |
| | | BAP Priority London | | | |
| | | Local Spp of Cons Conc | | | |
| Pipistrellus | Pipistrelle Bat species | Cons Regs 2010 Sch2 | 2 | 18/07/1996 | 21/08/2007 |
| , | | W&CA Sch5 Sec 9.4b | | -,-, | ,, |
| | | W&CA Sch5 Sec 9.4c | | | |
| | | BAP Priority London | | | |
| Pipistrellus pipistrellus | Common Pipistrelle | Cons Regs 2010 Sch2 | 1 | 21/08/2007 | 21/08/2007 |
| · · · · · · · · · · · · · · · · · · · | | W&CA Sch5 Sec 9.4b | | ,, | , , |
| | | W&CA Sch5 Sec 9.4c | | | |
| | | BAP Priority London | | | |
| Plecotus auritus | Brown Long-eared Bat | Cons Regs 2010 Sch2 | 7 | 24/01/1998 | 15/02/2002 |
| | | Hab&Spp Dir Anx 4 | | , 0 _, 2000 | |
| | | NERC Act Section 41 | | | |
| | | BAP Priority National | | | |
| | | W&CA Sch5 Sec 9.4b | | | |
| | | W&CA Sch5 Sec 9.4c | | | |
| | | BAP Priority London | | | |
| | | Local Spp of Cons Conc | | | |



4.3 LISI Species

The London Invasive Species Initiative (LISI) encourages better co-ordination and partnership working to prevent, reduce and eliminate the impacts caused by invasive non-native species across the city.

The list presents a number of species present in London and causing impacts for which action, monitoring or research is needed. It also lists species not currently in London but of concern due to high risk of negative impact should they arrive, including those for which national alerts are in place through the GB Non-Native Species Secretariat. LISI species are categorised following their likely risk to the environment. For further explanations please see the Supporting Information annex.

| LISI Category | Explanation |
|---------------|---|
| LISI 1 | Species not currently present in London but present nearby or of concern because of the high risk of negative impacts should they arrive. Should any species listed in this category appear in or LISI to ensure that action is taken rapidly. |
| LISI 2 | Species of high impact or concern present at specific sites that require attention (control, management, eradication etc). Such species are priority species for action in London and LISI encou |
| LISI 3 | Species of high impact or concern which are widespread in London and require concerted, coordinated and extensive action to control/eradicate. These species are species currently causing LISI supports area or catchment wide partnership working to ensure this. |
| LISI 4 | Species which are widespread for which eradication is not feasible but where avoiding spread to other sites may be required. Appropriate biosecurity is required for sites where these species |
| LISI 5 | Species for which insufficient data or evidence was available from those present to be able to prioritise. |
| LISI 6 | Species that were not currently considered to pose a threat or have the potential to cause problems in London. |

For further advice on dealing with invasive species in London, or to report management work undertaken at a site please contact the LISI Manager at enquiries@londonisi.org.uk or visit http://londonisi.org.uk/

| Taxon Name | Common Name | Designation | Total number | Maxim | Location of nearest | Data of meaner | Location of most | Date of most | Data ranga |
|--|---------------------------|-----------------|--------------------------------|-----------------------|---------------------|----------------|-----------------------------------|---------------|-----------------------|
| Taxon Name | common Name | Designation | Total number of occurrences | Maximum occurrence | record | record | Location of most recent record | recent record | Date range |
| Birds | | | | | | | | | |
| Psittacula krameri | Ring-necked Parakeet | LISI category 4 | 2 | 2 | TQ105925 | 22/01/2008 | TQ105925 | 22/01/2008 | 01/01/2005-22/01/2008 |
| | | | | | | | | | |
| Mammals (Excl. Bats) | | | | | | | | | |
| Muntiacus reevesi | Chinese Muntjac | LISI category 4 | 1 | Р | TQ0998988819 | 18/10/2004 | TQ0998988819 | 18/10/2004 | 18/10/2004 |
| | | | | | | | | | |
| Higher Plants (Flowering Plant | s) | | | | | | | | |
| Ailanthus altissima | Tree-of-heaven | LISI category 3 | 2 | Р | TQ0899889900 | 20/05/2004 | TQ0899889900 | 20/05/2004 | 05/05/2004-20/05/2004 |
| Buddleja davidii | Butterfly-bush | LISI category 3 | 16 | Р | TQ1052189529 | 25/05/2004 | TQ1071390012 | 05/10/2006 | 22/06/1999-05/10/2006 |
| Cotoneaster | Cotoneaster | LISI category 2 | 5 | Р | TQ0947091591 | 18/10/2004 | TQ0969990260 | 19/10/2004 | 06/05/2004-19/10/2004 |
| Cotoneaster salicifolius | Willow-leaved Cotoneaster | LISI category 2 | 1 | Р | TQ092913 | 1995 | TQ092913 | 1995 | 01/01/1995-31/12/1995 |
| Crassula helmsii | New Zealand Pigmyweed | LISI category 3 | 3 | Р | TQ0885989507 | 11/06/2004 | TQ0998988819 | 19/10/2004 | 01/01/2001-19/10/2004 |
| Elodea canadensis | Canadian Waterweed | LISI category 4 | 4 | Р | TQ0998988819 | 19/10/2004 | TQ0998988819 | 19/10/2004 | 01/01/2000-19/10/2004 |
| Fallopia japonica | Japanese Knotweed | LISI category 3 | 9 | Р | TQ0947091591 | 18/10/2004 | TQ119902 | 28/05/2008- | 22/06/1999-15/06/2008 |
| | | | | | | | | 15/06/2008 | |
| Fallopia sachalinensis | Giant Knotweed | LISI category 5 | 1 | Р | TQ0940891081 | 04/10/2006 | TQ0940891081 | 04/10/2006 | 04/10/2006 |
| Galega officinalis | Goat's-rue | LISI category 4 | 5 | Р | TQ0885989507 | 11/06/2004 | TQ110890 | 2014 | 24/05/2004-31/12/2014 |
| Heracleum mantegazzianum | Giant Hogweed | LISI category 3 | 2 | Р | TQ1097688991 | 24/05/2004 | TQ119902 | 28/05/2008- | 24/05/2004-15/06/2008 |
| | | | | | | | | 15/06/2008 | |
| Hyacinthoides hispanica | Spanish Bluebell | LISI category 4 | 4 | Р | TQ1052189529 | 25/05/2004 | TQ1052189529 | 25/05/2004 | 26/04/2004-25/05/2004 |
| llex aquifolium x perado = I. x altaclerensis | Highclere Holly | LISI category 5 | 1 | Р | TQ1132091395 | 11/09/2003 | TQ1132091395 | 11/09/2003 | 11/09/2003 |
| Impatiens glandulifera | Indian Balsam | LISI category 3 | 5 | Р | TQ0886990802 | 18/10/2004 | TQ0886990802 | 18/10/2004 | 20/05/2004-18/10/2004 |
| Lamium galeobdolon subsp. | Yellow Archangel | LISI category 4 | 2 | Р | TQ0976788817 | 06/05/2004 | TQ0976788817 | 06/05/2004 | 05/05/2004-06/05/2004 |
| argentatum | | | | | | | | | |
| Myriophyllum aquaticum | Parrot's-feather | LISI category 3 | 1 | Р | TQ102888 | 2001-2002 | TQ102888 | 2001-2002 | 01/01/2001-31/12/2002 |
| Pentaglottis sempervirens | Green Alkanet | LISI category 6 | 1 | Р | TQ0821490036 | 05/05/2004 | TQ0821490036 | 05/05/2004 | 05/05/2004 |
| Prunus laurocerasus | Cherry Laurel | LISI category 3 | 19 | Р | TQ0947091591 | 18/10/2004 | TQ11529058 | 25/09/2009 | 22/06/1999-25/09/2009 |



in London, this should be reported to GIGL

ourages this wherever possible. ng large scale impacts across London and

ies are found.

| Taxon Name | Common Name | Designation | Total number | Maximum | Location of nearest | Date of nearest | Location of most | Date of most | Date range |
|-----------------------|--------------|-----------------|----------------|------------|---------------------|-----------------|------------------|---------------|-----------------------|
| | | | of occurrences | occurrence | record | record | recent record | recent record | |
| Quercus cerris | Turkey Oak | LISI category 5 | 6 | Р | TQ1143790319 | 04/08/2003 | TQ0969990260 | 19/10/2004 | 22/06/1999-19/10/2004 |
| Rhododendron ponticum | Rhododendron | LISI category 2 | 2 | Р | TQ1043891666 | 02/08/2004 | TQ0886990802 | 18/10/2004 | 02/08/2004-18/10/2004 |
| Robinia pseudoacacia | False-acacia | LISI category 4 | 5 | Р | TQ0886990802 | 18/10/2004 | TQ1026390248 | 26/07/2005 | 12/10/2004-26/07/2005 |
| Symphoricarpos albus | Snowberry | LISI category 2 | 15 | 2 | TQ092914 | 1994 | TQ11529058 | 25/09/2009 | 01/01/1994-25/09/2009 |

LISI species – Coarse Resolution Records The species records in this table are represent records of 1km², 2km² or 10km² accuracy.

| Taxon Name | Common Name | Designation | Total number of | Record accuracy | Date of oldest | Date of most |
|---|------------------------|-----------------|-----------------|-----------------|----------------|---------------|
| | | | occurrences | - | record | recent record |
| Birds | • | | | | | |
| Psittacula krameri | Ring-necked Parakeet | LISI category 4 | 1 | 1km | 17/10/2010 | 17/10/2010 |
| | | | | | | |
| Higher Plants (Flowering Plant | s) | | | | | |
| Allium paradoxum | Few-flowered Garlic | LISI category 2 | 1 | 1km | 23/03/2003 | 23/03/2003 |
| Allium triquetrum | Three-cornered Garlic | LISI category 4 | 1 | 1km | 23/03/2003 | 23/03/2003 |
| Ambrosia artemisiifolia | Ragweed | LISI category 5 | 2 | 1km | 1945 | 2003 |
| Buddleja davidii | Butterfly-bush | LISI category 3 | 7 | 1km, 10km | 1965-1976 | 04/07/1998 |
| Claytonia sibirica | Pink Purslane | LISI category 5 | 1 | 1km | 2001 | 2001 |
| Cotoneaster horizontalis | Wall Cotoneaster | LISI category 2 | 1 | 10km | 2001 | 2001 |
| Cotoneaster simonsii | Himalayan Cotoneaster | LISI category 2 | 1 | 10km | 1997 | 1997 |
| Crassula helmsii | New Zealand Pigmyweed | LISI category 3 | 3 | 1km, 2km | 31/12/1993 | 2001 |
| Elodea canadensis | Canadian Waterweed | LISI category 4 | 3 | 1km, 10km | 1965-1976 | 1995 |
| Fallopia japonica | Japanese Knotweed | LISI category 3 | 7 | 1km, 10km | 1965-1976 | 1995 |
| Fallopia sachalinensis | Giant Knotweed | LISI category 5 | 2 | 1km | 31/12/1994 | 24/05/2003 |
| Galega officinalis | Goat's-rue | LISI category 4 | 6 | 1km, 2km, 10km | 31/12/1976 | 10/06/2001 |
| Galinsoga parviflora | Gallant Soldier | LISI category 3 | 2 | 1km, 2km | 1965-1976 | 1965-1976 |
| Galinsoga quadriradiata | Shaggy Soldier | LISI category 3 | 1 | 1km | 2001 | 2001 |
| Hyacinthoides hispanica | Spanish Bluebell | LISI category 4 | 2 | 1km | 1965-1976 | 1965-1976 |
| Hyacinthoides non-scripta x | Bluebell | LISI category 4 | 1 | 1km | 2003 | 2003 |
| hispanica = H. x massartiana | | | | | | |
| Impatiens capensis | Orange Balsam | LISI category 2 | 3 | 1km, 10km | 31/12/1945 | 1994 |
| Impatiens glandulifera | Indian Balsam | LISI category 3 | 2 | 1km, 10km | 1965-1976 | 1995 |
| Impatiens parviflora | Small Balsam | LISI category 2 | 7 | 1km, 10km | 31/12/1945 | 24/05/2003 |
| Lamium galeobdolon subsp. argentatum | Yellow Archangel | LISI category 4 | 1 | 10km | 1994 | 1994 |
| Lemna minuta | Least Duckweed | LISI category 4 | 3 | 1km, 10km | 1991 | 2000 |
| Lysichiton americanus | American Skunk-cabbage | LISI category 2 | 4 | 1km, 10km | 1950 | 28/05/2002 |
| Pentaglottis sempervirens | Green Alkanet | LISI category 6 | 1 | 1km | 1947 | 1947 |
| Prunus laurocerasus | Cherry Laurel | LISI category 3 | 4 | 1km, 10km | 1995 | 23/03/2003 |
| Quercus cerris | Turkey Oak | LISI category 5 | 3 | 1km, 10km | 31/12/1976 | 1995 |
| Rhododendron ponticum | Rhododendron | LISI category 2 | 2 | 1km, 10km | 1965-1976 | 1995 |
| Robinia pseudoacacia | False-acacia | LISI category 2 | 4 | 1km, 10km | 31/12/1976 | 1995 |
| Sorghum halepense | Johnson-grass | LISI category 2 | 1 | 1km | 1947 | 1995 |
| Symphoricarpos albus | Snowberry | LISI category 2 | 6 | 1km, 10km | 1965-1976 | 1995 |



5.0 Habitats

Habitats present within the search area from these sources can be seen on the following pages:

- Survey data
- BAP Condition Assessment and Habitat Suitability

The tables can be cross-referenced with the Survey Parcels Map.

Note that GiGL does not currently hold habitat data for all areas. Even where data is held, a lack of records in a defined geographical area does not necessarily mean that the habitat does not occur there – the area may simply not have been surveyed.

This section identifies and maps components of the local ecological networks and potential areas identified for habitat restoration or creation.



5.1 Survey Data

This table holds the most recent habitat survey information for a given site. It includes data collected via different survey methodologies. The GLA conducted a series of rolling habitat surveys between the mid-1980s and 2009. It used the habitat typologies developed specifically for Greater London – for further details of categories please refer to the Supporting Information section of the Annex. Other habitat classification methodologies recorded in the database are National Vegetation Classification, Phase 1 Habitat Assessment, and Biodiversity Action Plan Broad Habitat classification.

| Site Name | Polygon ID | Grid Ref | Site Area (ha) | Survey Date | Habitat Type | Area (%) | Area (ha) | Survey Type |
|-----------------------------------|----------------|--------------|-------------------|-------------|-----------------------------------|----------|-----------|-------------|
| The Gravel Pits B1120 | GiGL_HAB_11831 | TQ0838891349 | 5.57 | 13/08/2004 | Non- native broadleaved woodland | 40 | 2.22 | Lon(P1) |
| | | | | | Native broadleaved woodland | 40 | 2.22 | |
| | | | | | Neutral grassland (semi-improved) | 5 | 0.28 | |
| | | | | | Scrub | 5 | 0.28 | |
| | | | | | Ruderal or ephemeral | 5 | 0.28 | |
| | | | | | Amenity grassland | 5 | 0.28 | |
| The Gravel Pits B1120, Copse Wood | GiGL_HAB_11832 | TQ0840491190 | 0.40 | 12/10/2004 | Native broadleaved woodland | 80 | 0.32 | Lon(P1) |
| Spinney | | | | | Scrub | 10 | 0.04 | |
| | | | | | Non- native broadleaved woodland | 10 | 0.04 | |
| Northwood Golf Course, Greens | GiGL_HAB_11833 | TQ0886990802 | 41.40 | 18/10/2004 | Amenity grassland | 50 | 20.64 | Lon(P1) |
| | | | | | Native broadleaved woodland | 20 | 8.25 | |
| | | | | | Neutral grassland (semi-improved) | 10 | 4.13 | |
| | | | | | Scrub | 5 | 2.06 | |
| | | | | | Scattered trees | 5 | 2.06 | |
| | | | | | Bare artificial habitat | 5 | 2.06 | |
| | | | | | Acid grassland | 5 | 2.06 | |
| Northwood Golf Course, SINC Area | GiGL_HAB_11834 | TQ0925390679 | 4.82 | 18/10/2004 | Amenity grassland | 50 | 2.4 | Lon(P1) |
| | | | | | Native broadleaved woodland | 20 | 0.96 | |
| | | | | | Scattered trees | 10 | 0.48 | |
| | | | | | Scrub | 5 | 0.24 | |
| | | | | | Non-native hedge | 5 | 0.24 | |
| | | | | | Native hedge | 5 | 0.24 | |
| | | | | | Bare artificial habitat | 5 | 0.24 | |

| Site Name | Polygon ID | Grid Ref | Site Area | Survey Date | Habitat Type | Area (%) | Area (ha) | Survey Type |
|--------------------------------------|----------------|--------------|-----------|-------------|------------------------------------|----------|-----------|-------------|
| | | | (ha) | | | | | |
| Coniston Gardens open space | GiGL_HAB_11866 | TQ1013089099 | 1.23 | 03/08/2004 | Amenity grassland | 98 | 1.2 | Lon(P1) |
| | | | | | Scattered trees | 2 | 0.02 | |
| Haste Hill Golf Course, Golf Course | GiGL_HAB_11867 | TQ0921790140 | 33.11 | 11/10/2004 | Amenity grassland | 50 | 16.5 | Lon(P1) |
| | | | | | Scattered trees | 30 | 9.9 | |
| | | | | | Scrub | 5 | 1.65 | |
| | | | | | Bare soil and rock | 5 | 1.65 | |
| | | | | | Acid grassland | 5 | 1.65 | |
| | | | | | Planted shrubbery | 3 | 0.99 | |
| | | | | | Running water (rivers and streams) | 2 | 0.66 | |
| Haste Hill Golf Course, East copse | GiGL_HAB_11868 | TQ0952090350 | 2.61 | 11/10/2004 | Native broadleaved woodland | 60 | 1.56 | Lon(P1) |
| | | | | | Scrub | 22 | 0.57 | |
| | | | | | Non- native broadleaved woodland | 5 | 0.13 | |
| | | | | | Neutral grassland (herb-rich) | 5 | 0.13 | |
| | | | | | Bare soil and rock | 5 | 0.13 | |
| | | | | | Running water (rivers and streams) | 2 | 0.05 | |
| | | | | | Coniferous woodland | 1 | 0.03 | |
| Haste Hill Golf Course, SE Copse | GiGL_HAB_11869 | TQ0962189950 | 3.05 | 06/10/2004 | Scrub | 30 | 0.91 | Lon(P1) |
| | | | | | Scattered trees | 25 | 0.76 | |
| | | | | | Non- native broadleaved woodland | 25 | 0.76 | |
| | | | | | Neutral grassland (herb-rich) | 18 | 0.55 | |
| | | | | | Wet marginal vegetation | 2 | 0.06 | |
| Wiltshire Meadows, Wiltshire | GiGL_HAB_11870 | TQ0959589469 | 0.65 | 04/08/2004 | Neutral grassland (herb-rich) | 80 | 0.52 | Lon(P1) |
| Meadows North | | | | | Scrub | 8 | 0.05 | |
| | | | | | tall herbs | 7 | 0.05 | |
| | | | | | Scattered trees | 4 | 0.03 | |
| | | | | | Bare soil and rock | 1 | 0.01 | |
| Wiltshire Meadows, Wiltshire | GiGL_HAB_11871 | TQ0968689363 | 5.77 | 04/08/2004 | Neutral grassland (semi-improved) | 94 | 5.41 | Lon(P1) |
| Meadows - South | | | | | Native hedge | 4 | 0.23 | |
| | | | | | Scattered trees | 2 | 0.12 | |
| Haydon Hall Meadows, North pasture - | GiGL_HAB_11872 | TQ1046189978 | 0.99 | 03/08/2004 | Neutral grassland (herb-rich) | 80 | 0.79 | Lon(P1) |
| small holding | | | | | Scrub | 10 | 0.1 | . , |
| | | | | | Scattered trees | 5 | 0.05 | |
| | | | | | Native hedge | 5 | 0.05 | |

| Site Name | Polygon ID | Grid Ref | Site Area | Survey Date | Habitat Type | Area (%) | Area (ha) | Survey Type |
|--------------------------------------|----------------|--------------|-----------|-------------|------------------------------------|----------|-----------|-------------|
| | | | (ha) | | | | | |
| Haydon Hall Meadows, Grazing field | GiGL_HAB_11873 | TQ1035389762 | 5.12 | 03/08/2004 | Neutral grassland (semi-improved) | 90 | 4.59 | Lon(P1) |
| | | | | | Roughland (intimate mix of 9, 14 | 5 | 0.26 | |
| | | | | | and 6) | 5 | 0.26 | |
| | | | | | Native hedge | | | |
| Haydon Hall Meadows, R.Pinn corridor | GiGL_HAB_11874 | TQ1052189529 | 2.00 | 25/05/2004 | Non- native broadleaved woodland | 30 | 0.6 | Lon(P1) |
| | | | | | Native broadleaved woodland | 30 | 0.6 | |
| | | | | | Running water (rivers and streams) | 20 | 0.4 | |
| | | | | | Scrub | 15 | 0.3 | |
| | | | | | Bare soil and rock | 5 | 0.1 | |
| Haydon Hall Meadows, Long Meadow | GiGL_HAB_11875 | TQ1057789613 | 4.76 | 03/08/2004 | Neutral grassland (semi-improved) | 90 | 4.27 | Lon(P1) |
| | | | | | Native hedge | 5 | 0.24 | |
| | | | | | Bare soil and rock | 3 | 0.14 | |
| | | | | | Scattered trees | 2 | 0.09 | |
| Haydon Hall Meadows, Wrenwood | GiGL_HAB_11876 | TQ1069589345 | 2.37 | 04/08/2004 | Neutral grassland (herb-rich) | 70 | 1.65 | Lon(P1) |
| Meadow - North | | | | | Scrub | 15 | 0.35 | |
| | | | | | Neutral grassland (semi-improved) | 10 | 0.24 | |
| | | | | | Scattered trees | 5 | 0.12 | |
| Haydon Hall Meadows, Wrenwood | GiGL_HAB_11877 | TQ1072489185 | 3.10 | 04/08/2004 | Neutral grassland (herb-rich) | 80 | 2.47 | Lon(P1) |
| Meadow - West | | | | | Native hedge | 10 | 0.31 | |
| | | | | | Scrub | 5 | 0.15 | |
| | | | | | Scattered trees | 5 | 0.15 | |
| Haydon Hall Meadows, Brush to SW | GiGL_HAB_11878 | TQ1054889133 | 0.60 | 03/08/2004 | Scrub | 50 | 0.3 | Lon(P1) |
| | | | | | Scattered trees | 50 | 0.3 | |
| Haydon Hall Meadows, Wrenwood | GiGL_HAB_11879 | TQ1073789256 | 0.70 | 04/08/2004 | Neutral grassland (semi-improved) | 90 | 0.63 | Lon(P1) |
| Meadows - East | | | | | Native hedge | 5 | 0.04 | |
| | | | | | Scattered trees | 3 | 0.02 | |
| | | | | | Scrub | 2 | 0.01 | |
| Haydon Hall Meadows, Footpath and | GiGL_HAB_11880 | TQ1051589916 | 1.40 | 03/08/2004 | Native broadleaved woodland | 50 | 0.7 | Lon(P1) |
| greenspace to West | | | | | Amenity grassland | 20 | 0.28 | |
| | | | | | Scrub | 15 | 0.21 | |
| | | | | | Non- native broadleaved woodland | 10 | 0.14 | |
| | | | | | Scattered trees | 4 | 0.06 | |
| | | | | | Running water (rivers and streams) | 1 | 0.01 | |

| Site Name | Polygon ID | Grid Ref | Site Area | Survey Date | Habitat Type | Area (%) | Area (ha) | Survey Type |
|---------------------------------------|----------------|--------------|-----------|-------------|------------------------------------|----------|-----------|-------------|
| | | | (ha) | | | | | |
| River Pinn near Eastcote, Long | GiGL_HAB_11881 | TQ1097688991 | 5.80 | 24/05/2004 | Amenity grassland | 65 | 3.76 | Lon(P1) |
| Meadow open space | | | | | Running water (rivers and streams) | 10 | 0.58 | |
| | | | | | Non- native broadleaved woodland | 10 | 0.58 | |
| | | | | | Native broadleaved woodland | 10 | 0.58 | |
| | | | | | Scrub | 5 | 0.29 | |
| River Pinn near Eastcote, Cheney | GiGL_HAB_11882 | TQ1137389046 | 2.31 | 04/05/2004 | Neutral grassland (semi-improved) | 60 | 1.38 | Lon(P1) |
| Street open space | | | | | Native broadleaved woodland | 20 | 0.46 | |
| | | | | | Running water (rivers and streams) | 10 | 0.23 | |
| | | | | | Non- native broadleaved woodland | 10 | 0.23 | |
| Hogs Back open space, Woodlands | GiGL_HAB_11887 | TQ1024290919 | 2.78 | 01/06/2004 | Native broadleaved woodland | 40 | 1.11 | Lon(P1) |
| circumference | | | | | Non- native broadleaved woodland | 30 | 0.83 | |
| | | | | | Roughland (intimate mix of 9, 14 | 15 | 0.42 | |
| | | | | | and 6) | 15 | 0.42 | |
| | | | | | Amenity grassland | | | |
| Hogs Back open space, Clearing at top | GiGL_HAB_11888 | TQ1033390847 | 2.04 | 01/06/2004 | Amenity grassland | 55 | 1.12 | Lon(P1) |
| | | | | | tall herbs | 15 | 0.3 | |
| | | | | | Scrub | 15 | 0.3 | |
| | | | | | Scattered trees | 15 | 0.3 | |
| St Johns School, South Sports Field | GiGL_HAB_11889 | TQ1047091289 | 4.94 | 02/08/2004 | Amenity grassland | 85 | 4.18 | Lon(P1) |
| | | | | | Native hedge | 6 | 0.3 | |
| | | | | | Scattered trees | 4 | 0.2 | |
| | | | | | Bare soil and rock | 3 | 0.15 | |
| | | | | | Neutral grassland (herb-rich) | 2 | 0.1 | |
| St Johns School, Thick hedgerow to | GiGL_HAB_11890 | TQ1062091384 | 0.86 | 02/08/2004 | Native hedge | 70 | 0.6 | Lon(P1) |
| East margin | | | | | Scattered trees | 10 | 0.09 | |
| - | | | | | Non-native hedge | 10 | 0.09 | |
| | | | | | Neutral grassland (herb-rich) | 10 | 0.09 | |
| St Johns School, Donkey Field | GiGL_HAB_11891 | TQ1064891139 | 1.28 | 02/08/2004 | Neutral grassland (herb-rich) | 60 | 0.77 | Lon(P1) |
| | | | | | tall herbs | 15 | 0.19 | |
| | | | | | Neutral grassland (semi-improved) | 10 | 0.13 | |
| | | | | | Native hedge | 8 | 0.1 | |
| | | | | | Scattered trees | 4 | 0.05 | |
| | | | | | Ditches (water filled) | 3 | 0.04 | |

| Site Name | Polygon ID | Grid Ref | Site Area (ha) | Survey Date | Habitat Type | Area (%) | Area (ha) | Survey Type |
|--------------------------------------|-----------------|--------------|-------------------|-------------|----------------------------------|----------|-----------|-------------|
| St Johns School, Main building | GiGL_HAB_11892 | TQ1050791492 | 2.78 | 02/08/2004 | Amenity grassland | 48 | 1.33 | Lon(P1) |
| complex and grassland to South | 0.01_1.05_11052 | 101000701102 | 2.70 | 02,00,200 | Bare artificial habitat | 40 | 1.11 | 2011(1-2) |
| | | | | | Scattered trees | 5 | 0.14 | |
| | | | | | Native hedge | 3 | 0.08 | |
| | | | | | Non-native hedge | 2 | 0.06 | |
| | | | | | Bare soil and rock | 2 | 0.06 | |
| St Johns School, Nature Trail | GiGL_HAB_11893 | TQ1043891666 | 1.71 | 02/08/2004 | Scrub | 40 | 0.68 | Lon(P1) |
| , | | | | | Native broadleaved woodland | 20 | 0.34 | 、 <i>,</i> |
| | | | | | Acid grassland | 20 | 0.34 | |
| | | | | | Neutral grassland (herb-rich) | 10 | 0.17 | |
| | | | | | tall herbs | 9 | 0.15 | |
| | | | | | Standing water (includes canals) | 1 | 0.02 | |
| St Johns School, North playing field | GiGL_HAB_11894 | TQ1052591661 | 1.00 | 02/08/2004 | Amenity grassland | 89 | 0.89 | Lon(P1) |
| | | | | | Bare artificial habitat | 10 | 0.1 | . , |
| | | | | | Scattered trees | 1 | 0.01 | |
| St Johns School, East ponds (#2) | GiGL_HAB_11895 | TQ1059191503 | 0.12 | 02/08/2004 | Standing water (includes canals) | 70 | 0.08 | Lon(P1) |
| | | | | | Scattered trees | 10 | 0.01 | |
| | | | | | Bare soil and rock | 10 | 0.01 | |
| | | | | | Bare artificial habitat | 10 | 0.01 | |
| Raisins Hill Common | GiGL_HAB_11896 | TQ1112689642 | 1.15 | 05/05/2004 | Amenity grassland | 75 | 0.85 | Lon(P1) |
| | | | | | Scattered trees | 15 | 0.17 | |
| | | | | | Scrub | 10 | 0.11 | |
| Cuckoo Hill | GiGL_HAB_11897 | TQ1104389388 | 2.37 | 25/05/2004 | Amenity grassland | 65 | 1.53 | Lon(P1) |
| | | | | | Scattered trees | 20 | 0.47 | |
| | | | | | Native hedge | 10 | 0.24 | |
| | | | | | Scrub | 5 | 0.12 | |
| Ruislip Woods, Park Wood | GiGL_HAB_11929 | TQ0918389102 | 107.27 | 26/04/2004 | Native broadleaved woodland | 78 | 83.41 | Lon(P1) |
| | | | | | tall herbs | 5 | 5.35 | |
| | | | | | Scrub | 5 | 5.35 | |
| | | | | | Neutral grassland (herb-rich) | 5 | 5.35 | |
| | | | | | Bare soil and rock | 3 | 3.21 | |
| | | | | | Ditches (water filled) | 2 | 2.14 | |
| | | | | | Acid grassland | 2 | 2.14 | |

| Site Name | Polygon ID | Grid Ref | Site Area | Survey Date | Habitat Type | Area (%) | Area (ha) | Survey Type |
|--------------------------------------|----------------|--------------|-----------|-------------|---------------------------------------|----------|-----------|-------------|
| | | | (ha) | / / | · · · · · · · · · · · · · · · · · · · | | | |
| Ruislip Woods, Grub Ground Pond | GiGL_HAB_11930 | TQ0967088872 | 0.06 | 13/08/2004 | Wet marginal vegetation | 40 | 0.02 | Lon(P1) |
| | | | | | Native broadleaved woodland | 30 | 0.02 | |
| | | | | | Scrub | 20 | 0.01 | |
| | | | | | Standing water (includes canals) | 10 | 0.01 | |
| Ruislip Woods, Ruislip Lido | GiGL_HAB_11931 | TQ0883989357 | 15.44 | 11/06/2004 | Standing water (includes canals) | 95 | 14.62 | Lon(P1) |
| | | | | | Scrub | 2 | 0.31 | |
| | | | | | Wet marginal vegetation | 1 | 0.15 | |
| | | | | | Typha etc. swamp | 1 | 0.15 | |
| | | | | | Reedswamp | 1 | 0.15 | |
| Ruislip Woods, Lake | GiGL_HAB_11932 | TQ0899889900 | 0.37 | 20/05/2004 | Standing water (includes canals) | 80 | 0.3 | Lon(P1) |
| | | | | | Wet marginal vegetation | 10 | 0.04 | |
| | | | | | tall herbs | 5 | 0.02 | |
| | | | | | Scattered trees | 5 | 0.02 | |
| Ruislip Woods, Locked Nature Reserve | GiGL HAB 11933 | TQ0896889982 | 4.03 | 20/05/2004 | Native broadleaved woodland | 50 | 2.01 | Lon(P1) |
| Woodland | | | | | Non- native broadleaved woodland | 15 | 0.6 | |
| | | | | | Standing water (includes canals) | 10 | 0.4 | |
| | | | | | Fen carr (woodland or scrub over | 10 | 0.4 | |
| | | | | | fen) | 6 | 0.24 | |
| | | | | | Neutral grassland (herb-rich) | 5 | 0.2 | |
| | | | | | Wet marginal vegetation | 2 | 0.08 | |
| | | | | | Typha etc. swamp | 2 | 0.08 | |
| | | | | | Ditches (water filled) | | | |
| Ruislip Woods, The Finger | GiGL HAB 11934 | TQ0883590185 | 1.03 | 11/06/2004 | Native broadleaved woodland | 50 | 0.52 | Lon(P1) |
| | | - | | ,, | Typha etc. swamp | 30 | 0.31 | - () |
| | | | | | tall herbs | 20 | 0.21 | |
| Ruislip Woods, Poors Field | GiGL_HAB_11935 | TQ0875389763 | 16.49 | 11/06/2004 | Acid grassland | 47 | 7.73 | Lon(P1) |
| | | | | -, , • • · | tall herbs | 15 | 2.47 | |
| | | | | | Scrub | 15 | 2.47 | |
| | | | | | Scattered trees | 10 | 1.64 | |
| | | | | | Heathland | 10 | 1.64 | |
| | | | | | Bare soil and rock | 3 | 0.49 | |

| Site Name | Polygon ID | Grid Ref | Site Area (ha) | Survey Date | Habitat Type | Area (%) | Area (ha) | Survey Type |
|--------------------------------------|-------------------|--------------|-------------------|-------------|----------------------------------|----------|-----------|-------------|
| Ruislip Woods, Copse Wood | GiGL_HAB_11936 | TQ0821490036 | 79.96 | 05/05/2004 | Native broadleaved woodland | 50 | 39.85 | Lon(P1) |
| | | | | ,, | Non- native broadleaved woodland | 20 | 15.94 | - () |
| | | | | | tall herbs | 10 | 7.97 | |
| | | | | | Scrub | 10 | 7.97 | |
| | | | | | Neutral grassland (herb-rich) | 5 | 3.99 | |
| | | | | | Bare soil and rock | 5 | 3.99 | |
| Ruislip Woods, Amenity Grassland | GiGL_HAB_11937 | TQ0870689375 | 7.08 | 11/06/2004 | Amenity grassland | 40 | 2.82 | Lon(P1) |
| west of Lido | | | | | Neutral grassland (herb-rich) | 30 | 2.12 | |
| | | | | | Scattered trees | 20 | 1.41 | |
| | | | | | Scrub | 10 | 0.71 | |
| Ruislip Wood, Lido Roughland | GiGL_HAB_11938 | TQ0885989507 | 1.00 | 11/06/2004 | Roughland (intimate mix of 9, 14 | 95 | 0 | Lon(P1) |
| | | | | | and 6) | 5 | 0 | |
| | | | | | Scattered trees | | | |
| Ruislip Woods, Aspen Wood | GiGL_HAB_11939 | TQ0889289583 | 1.11 | 21/08/2004 | Native broadleaved woodland | 85 | 0.94 | Lon(P1) |
| | | | | | Scrub | 10 | 0.11 | |
| | | | | | tall herbs | 5 | 0.06 | |
| Ruislip Woods, Scrubland near car pa | rk GiGL_HAB_11940 | TQ0853289389 | 1.17 | 21/06/2004 | Native broadleaved woodland | 40 | 0.47 | Lon(P1) |
| | | | | | Acid grassland | 30 | 0.35 | |
| | | | | | Recently felled woodland | 15 | 0.18 | |
| | | | | | Bare soil and rock | 10 | 0.12 | |
| | | | | | tall herbs | 5 | 0.06 | |
| Ruislip Woods, Grub Ground | GiGL_HAB_11941 | TQ0976788817 | 10.66 | 06/05/2004 | Acid grassland | 35 | 3.72 | Lon(P1) |
| | | | | | Native broadleaved woodland | 30 | 3.19 | |
| | | | | | tall herbs | 14 | 1.49 | |
| | | | | | Scrub | 10 | 1.06 | |
| | | | | | Non- native broadleaved woodland | 10 | 1.06 | |
| | | | | | Coniferous woodland | 1 | 0.11 | |
| Ruislip and Northolt Co-op | GiGL_HAB_12049 | TQ1032990028 | 2.32 | 08/08/2004 | Allotments (active) | 80 | 1.85 | Lon(P1) |
| Allotmentholders | | | | | Roughland (intimate mix of 9, 14 | 10 | 0.23 | |
| | | | | | and 6) | 5 | 0.12 | |
| | | | | | Bare artificial habitat | 3 | 0.07 | |
| | | | | | Scattered trees | 2 | 0.05 | |
| | | | | | Bare soil and rock | | | |

| Site Name | Polygon ID | Grid Ref | Site Area | Survey Date | Habitat Type | Area (%) | Area (ha) | Survey Type |
|--|----------------|--------------|-----------|-------------|-----------------------------------|----------|-----------|-------------|
| | | | (ha) | | | | | |
| Haste Hill Farm | GiGL_HAB_12050 | TQ0980289456 | 0.83 | 04/08/2004 | Scrub | 60 | 0.5 | Lon(P1) |
| | | | | | Scattered trees | 40 | 0.33 | |
| St. Vincent's Hospital, Heatherfold Way Field | GiGL_HAB_12051 | TQ0967189724 | 1.08 | 04/08/2004 | Neutral grassland (semi-improved) | 45 | 0.49 | Lon(P1) |
| | | | | | Roughland (intimate mix of 9, 14 | 40 | 0.43 | |
| | | | | | and 6) | 10 | 0.11 | |
| | | | | | Scrub | 5 | 0.05 | |
| | | | | | Scattered trees | | | |
| St. Vincent's Hospital, North Grounds | GiGL_HAB_12052 | TQ0962189813 | 0.54 | 04/08/2004 | Scrub | 30 | 0.16 | Lon(P1) |
| | | | | | Scattered trees | 30 | 0.16 | |
| | | | | | Ruderal or ephemeral | 25 | 0.13 | |
| | | | | | Amenity grassland | 15 | 0.08 | |
| St. Martin's School | GiGL_HAB_12055 | TQ0860592106 | 1.96 | 13/08/2004 | Amenity grassland | 83 | 1.62 | Lon(P1) |
| | | | | | Bare soil and rock | 10 | 0.2 | |
| | | | | | Native hedge | 4 | 0.08 | |
| | | | | | Scattered trees | 2 | 0.04 | |
| | | | | | Non-native hedge | 1 | 0.02 | |
| Northwood FC | GiGL_HAB_12080 | TQ0983790325 | 1.71 | 06/10/2004 | Amenity grassland | 55 | 0.94 | Lon(P1) |
| | | | | | Bare artificial habitat | 25 | 0.43 | |
| | | | | | Scattered trees | 10 | 0.17 | |
| | | | | | Roughland (intimate mix of 9, 14 | 10 | 0.17 | |
| | | | | | and 6) | | | |
| Fore Street Meadow | GiGL HAB 12093 | TQ0995889116 | 2.83 | 13/10/2004 | Ruderal or ephemeral | 32 | 0.9 | Lon(P1) |
| | | | | | Neutral grassland (semi-improved) | 30 | 0.85 | |
| | | | | | Roughland (intimate mix of 9, 14 | 25 | 0.71 | |
| | | | | | and 6) | 5 | 0.14 | |
| | | | | | Scattered trees | 5 | 0.14 | |
| | | | | | Native hedge | 2 | 0.06 | |
| | | | | | Wet marginal vegetation | 1 | 0.03 | |
| | | | | | Bare artificial habitat | | | |
| Frithwood School | GiGL_HAB_12095 | TQ0968591749 | 0.70 | 13/08/2004 | Amenity grassland | 70 | 0.49 | Lon(P1) |
| | | | | , , - | Bare artificial habitat | 18 | 0.13 | , í |
| | | | | | Scattered trees | 10 | 0.07 | |
| | | | | | Ruderal or ephemeral | 2 | 0.01 | |

| Site Name | Polygon ID | Grid Ref | Site Area | Survey Date | Habitat Type | Area (%) | Area (ha) | Survey Type |
|--|----------------|--------------|--------------|----------------|------------------------------------|----------|-----------|--------------|
| Old Pumping Station Fields, Old | GiGL_HAB_12233 | TQ0840789381 | (ha) 3.02 | 21/06/2004 | Neutral grassland (herb-rich) | 85 | 2.56 | Lon(P1) |
| Pumping Station Field - north | | 100040785581 | 5.02 | 21/00/2004 | Native hedge | 10 | 0.3 | 2011(11) |
| | | | | | Scattered trees | 5 | 0.15 | |
| Riverside Walk at Eastcote Road | GiGL_HAB_12296 | TQ1045388560 | 1.39 | 25/04/2004 | Scattered trees | 40 | 0.15 | Lon(P1) |
| | | 14101000000 | 1.55 | 23, 0 1, 200 1 | Running water (rivers and streams) | 25 | 0.35 | 2011(1-2) |
| | | | | | Scrub | 15 | 0.21 | |
| | | | | | tall herbs | 10 | 0.14 | |
| | | | | | Bare artificial habitat | 10 | 0.14 | |
| Eastcote House gardens | GiGL_HAB_12297 | TQ1071888713 | 3.17 | 25/05/2004 | Amenity grassland | 50 | 1.58 | Lon(P1) |
| | | | | | Scattered trees | 40 | 1.26 | , <i>,</i> , |
| | | | | | Bare artificial habitat | 10 | 0.32 | |
| Haydon Hall Park, Eastcote Cricket Club | GiGL_HAB_12298 | TQ1054789025 | 3.99 | 24/05/2004 | Amenity grassland | 70 | 2.79 | Lon(P1) |
| | | | | | Scattered trees | 10 | 0.4 | |
| | | | | | Neutral grassland (semi-improved) | 5 | 0.2 | |
| | | | | | Scrub | 5 | 0.2 | |
| | | | | | Native hedge | 5 | 0.2 | |
| | | | | | Bare artificial habitat | 5 | 0.2 | |
| Haydon Hall Park, Woodland arounr | GiGL_HAB_12299 | TQ1057888841 | 2.18 | 24/05/2004 | Neutral grassland (semi-improved) | 20 | 0.43 | Lon(P1) |
| River Pinn | | | | | Non- native broadleaved woodland | 20 | 0.43 | |
| | | | | | Native broadleaved woodland | 20 | 0.43 | |
| | | | | | Bare soil and rock | 15 | 0.33 | |
| | | | | | Scrub | 10 | 0.22 | |
| | | | | | Running water (rivers and streams) | 10 | 0.22 | |
| | | | | | tall herbs | 5 | 0.11 | |
| Northwood Cemetery | GiGL_HAB_12302 | TQ0969990260 | 6.43 | 19/10/2004 | Amenity grassland | 35 | 2.24 | Lon(P1) |
| | | | | | Scattered trees | 30 | 1.92 | |
| | | | | | Vegetated walls, tombstones etc. | 20 | 1.28 | |
| | | | | | Planted shrubbery | 5 | 0.32 | |
| | | | | | Native hedge | 5 | 0.32 | |
| | | | | | Bare soil and rock | 5 | 0.32 | |

| Site Name | Polygon ID | Grid Ref | Site Area | Survey Date | Habitat Type | Area (%) | Area (ha) | Survey Type |
|-------------------------------------|----------------|--------------|-----------|-------------|-----------------------------------|----------|-----------|-------------|
| | | | (ha) | | | | | |
| Northwood Recreation Ground | GiGL_HAB_12303 | TQ0973690550 | 1.91 | 06/10/2004 | Amenity grassland | 65 | 1.24 | Lon(P1) |
| | | | | | Bare artificial habitat | 25 | 0.48 | |
| | | | | | Scattered trees | 5 | 0.1 | |
| | | | | | Non-native hedge | 4 | 0.08 | |
| | | | | | Native hedge | 1 | 0.02 | |
| Northwood Recreation Ground, | GiGL_HAB_12304 | TQ0991090294 | 7.76 | 06/10/2004 | Amenity grassland | 87 | 6.73 | Lon(P1) |
| Northwood Recreation Ground | | | | | Scattered trees | 4 | 0.31 | |
| amenity area | | | | | Neutral grassland (semi-improved) | 3 | 0.23 | |
| | | | | | Ruderal or ephemeral | 3 | 0.23 | |
| | | | | | Native hedge | 3 | 0.23 | |
| St Helens School | GiGL_HAB_12305 | TQ0947091591 | 7.42 | 18/10/2004 | Amenity grassland | 51 | 3.77 | Lon(P1) |
| | | | | | Bare artificial habitat | 30 | 2.22 | |
| | | | | | Scattered trees | 15 | 1.11 | |
| | | | | | Non-native hedge | 2 | 0.15 | |
| | | | | | Native hedge | 2 | 0.15 | |
| Metropolital Line - Watford Branch | GiGL_HAB_12306 | TQ1054190087 | 2.86 | 23/09/2004 | Bare artificial habitat | 70 | 2 | Lon(P1) |
| | | | | | Scrub | 10 | 0.28 | |
| | | | | | Scattered trees | 10 | 0.28 | |
| | | | | | Bare soil and rock | 10 | 0.28 | |
| Metropolital Line - Watford Branch, | GiGL_HAB_12307 | TQ0952690864 | 5.23 | 23/09/2004 | Bare artificial habitat | 65 | 3.39 | Lon(P1) |
| Northwood Hills to Northwood Tube | | | | | Scattered trees | 25 | 1.3 | |
| | | | | | Scrub | 5 | 0.26 | |
| | | | | | Bare soil and rock | 5 | 0.26 | |
| Metropolital Line - Watford Branch, | GiGL_HAB_12308 | TQ0917091768 | 3.27 | 23/09/2004 | Bare artificial habitat | 40 | 1.3 | Lon(P1) |
| Northwood Tube to north Hillingdon | | | | | Scattered trees | 30 | 0.98 | |
| boundary | | | | | Scrub | 20 | 0.65 | |
| | | | | | Neutral grassland (semi-improved) | 5 | 0.16 | |
| | | | | | Bare soil and rock | 5 | 0.16 | |
| Harlyn Primary & Nursery School | GiGL_HAB_12316 | TQ1074489828 | 1.87 | 04/08/2004 | Amenity grassland | 87 | 1.62 | Lon(P1) |
| | | | | | Non-native hedge | 4 | 0.07 | , <i>,</i> |
| | | | | | Native hedge | 4 | 0.07 | |
| | | | | | Bare artificial habitat | 3 | 0.06 | |
| | | | | | Scattered trees | 2 | 0.04 | |

| Site Name | Polygon ID | Grid Ref | Site Area (ha) | Survey Date | Habitat Type | Area (%) | Area (ha) | Survey Type |
|----------------------------------|----------------|--------------|-------------------|-------------|------------------------------------|----------|-----------|-------------|
| Grangewood School and Coteford | GiGL_HAB_12317 | TQ0998988819 | 5.09 | 18/10/2004 | Native broadleaved woodland | 40 | 2.03 | Lon(P1) |
| Junior School Grounds | | | | | Amenity grassland | 35 | 1.78 | |
| | | | | | Bare artificial habitat | 20 | 1.02 | |
| | | | | | Scattered trees | 5 | 0.25 | |
| Haydon School grounds | GiGL_HAB_12318 | TQ1011989545 | 7.31 | 03/08/2004 | Amenity grassland | 90 | 6.56 | Lon(P1) |
| | | | | | Bare artificial habitat | 8 | 0.58 | |
| | | | | | Scrub | 1 | 0.07 | |
| | | | | | Scattered trees | 1 | 0.07 | |
| Northwood Comprehensive School & | GiGL_HAB_12319 | TQ1048790551 | 5.99 | 02/08/2004 | Amenity grassland | 60 | 3.58 | Lon(P1) |
| Sports Centre | | | | | Bare artificial habitat | 30 | 1.79 | |
| | | | | | Native hedge | 5 | 0.3 | |
| | | | | | Scattered trees | 3 | 0.18 | |
| | | | | | Non-native hedge | 2 | 0.12 | |
| Frithwood Park | GiGL_HAB_12320 | TQ0956891789 | 1.07 | 13/08/2004 | Amenity grassland | 50 | 0.54 | Lon(P1) |
| | | | | | Scattered trees | 30 | 0.32 | · · / |
| | | | | | Bare artificial habitat | 20 | 0.21 | |
| Chestnut Avenue Allotments | GiGL_HAB_12363 | TQ0970790438 | 0.93 | 06/10/2004 | Allotments (active) | 72 | 0.67 | Lon(P1) |
| | | | | | Neutral grassland (semi-improved) | 10 | 0.09 | · · / |
| | | | | | Scattered trees | 5 | 0.05 | |
| | | | | | Native hedge | 5 | 0.05 | |
| | | | | | Bare artificial habitat | 5 | 0.05 | |
| | | | | | Ruderal or ephemeral | 3 | 0.03 | |
| Pinnerwood Farm | GiGL HAB 13703 | TQ1192591800 | 47.42 | 05/09/2003 | Improved or re-seeded agricultural | 80 | 37.82 | Lon(P1) |
| | | | | | grassland | 15 | 7.09 | · · · · |
| | | | | | Native hedge | 5 | 2.36 | |
| | | | | | Scattered trees | | | |
| Pinner Hill Golf Course, Greens, | GiGL HAB 13706 | TQ1112391402 | 31.53 | 11/09/2003 | Amenity grassland | 70 | 22 | Lon(P1) |
| Roughs and (dry) ditches | | - | | ,, | Acid grassland | 15 | 4.71 | - () |
| 5 (<i>)</i> , | | | | | Other | 10 | 3.14 | |
| | | | | | Scrub | 5 | 1.57 | |
| Pinner Hill Golf Course, Pond | GiGL_HAB_13707 | TQ1101991466 | 0.16 | 11/09/2003 | Standing water (includes canals) | 50 | 0.08 | Lon(P1) |
| | | | | ,, | Scrub | 20 | 0.03 | - (/ |
| | | | | | Native broadleaved woodland | 20 | 0.03 | |
| | | | | | Non- native broadleaved woodland | 10 | 0.02 | |

| GiGL_HAB_13708 | TQ1105591618 | (ha) 0.80 | 11/09/2003 | | | | |
|----------------|--------------|---|---|---|---|--|---|
| GiGL_HAB_13708 | TQ1105591618 | 0.80 | 11/09/2003 | L | | | |
| | | | 11/03/2003 | Wet marginal vegetation | 30 | 0.24 | Lon(P1) |
| | | | | Standing water (includes canals) | 30 | 0.24 | |
| | | | | Typha etc. swamp | 20 | 0.16 | |
| | | | | Roughland (intimate mix of 9, 14 | 10 | 0.08 | |
| | | | | , | 10 | 0.08 | |
| | | | | | | | |
| GiGL_HAB_13709 | TQ1132091395 | 18.81 | 11/09/2003 | | | | Lon(P1) |
| | | | | Non- native broadleaved woodland | 20 | 3.75 | |
| GiGL_HAB_13710 | TQ1152991191 | 0.63 | 11/09/2003 | Typha etc. swamp | 40 | 0.25 | Lon(P1) |
| | | | | Standing water (includes canals) | 20 | 0.13 | |
| | | | | Wet marginal vegetation | 10 | 0.06 | |
| | | | | Scrub | 10 | 0.06 | |
| | | | | Scattered trees | 10 | 0.06 | |
| | | | | Ditches (water filled) | 10 | 0.06 | |
| GiGL HAB 13711 | TQ1136791868 | 0.32 | 11/09/2003 | Typha etc. swamp | 80 | 0.26 | Lon(P1) |
| | | | | Wet marginal vegetation | 10 | 0.03 | |
| | | | | u | 10 | 0.03 | |
| | | | | and 6) | | | |
| GiGL HAB 13712 | TQ1143790319 | 5.51 | 04/08/2003 | Amenity grassland | 80 | 4.39 | Lon(P1) |
| | | | | | 20 | 1.1 | |
| GIGL HAB 13713 | TQ1131090319 | 0.50 | 04/08/2003 | Ditches (water filled) | 40 | 0.2 | Lon(P1) |
| | - | | - ,, | , , , | | | - () |
| | | | | - | | | |
| | | | | - | 10 | 0.05 | |
| GIGL HAB 13714 | TO1144090525 | 1.59 | 04/08/2003 | | | | Lon(P1) |
| | | 1.00 | 0 1, 00, 2000 | | | | 2011(1-2) |
| GIGL HAB 13715 | TO1160690542 | 1 31 | 04/08/2003 | | | | Lon(P1) |
| | | 1.51 | 0 17 007 2000 | | | | 2011(1-1) |
| | | | | | | | |
| | | | | | | | |
| SIGL HAR 12716 | TO1157700/21 | 0.87 | 04/08/2002 | | | | Lon(P1) |
| JIGE_UAD_13/10 | 10113//90431 | 0.07 | 04/06/2003 | | | | LOU(PI) |
| | | iGL_HAB_13710 TQ1152991191 iGL_HAB_13711 TQ1136791868 iGL_HAB_13712 TQ1143790319 iGL_HAB_13713 TQ1131090319 iGL_HAB_13714 TQ1144090525 iGL_HAB_13715 TQ1160690542 | iGL_HAB_13710 TQ1152991191 0.63 iGL_HAB_13711 TQ1136791868 0.32 iGL_HAB_13712 TQ1143790319 5.51 iGL_HAB_13713 TQ1131090319 0.50 iGL_HAB_13714 TQ1144090525 1.59 iGL_HAB_13715 TQ1160690542 1.31 | iGL_HAB_13710 TQ1152991191 0.63 11/09/2003 iGL_HAB_13711 TQ1136791868 0.32 11/09/2003 iGL_HAB_13712 TQ1143790319 5.51 04/08/2003 iGL_HAB_13713 TQ1131090319 0.50 04/08/2003 iGL_HAB_13714 TQ1144090525 1.59 04/08/2003 iGL_HAB_13715 TQ1160690542 1.31 04/08/2003 | IGL_HAB_13710TQ11529911910.6311/09/2003Typha etc. swamp Standing water (includes canals) Wet marginal vegetation Scrub | iGL_HAB_13709 TQ1132091395 18.81 11/09/2003 Native broadleaved woodland Non- native broadleaved woodland 80 iGL_HAB_13710 TQ1152991191 0.63 11/09/2003 Typha etc. swamp 40 iGL_HAB_13710 TQ1152991191 0.63 11/09/2003 Typha etc. swamp 40 iGL_HAB_13710 TQ1136791868 0.32 11/09/2003 Typha etc. swamp 80 iGL_HAB_13711 TQ1136791868 0.32 11/09/2003 Typha etc. swamp 80 iGL_HAB_13712 TQ1143790319 5.51 04/08/2003 Typha etc. swamp 80 iGL_HAB_13713 TQ1131090319 0.50 04/08/2003 Amenity grassland Scattered trees 80 iGL_HAB_13714 TQ114090525 1.59 04/08/2003 Ditches (water filled) Non-native hedge 35 iGL_HAB_13714 TQ1160690542 1.31 04/08/2003 Native broadleaved woodland Native broadleaved woodland 30 iGL_HAB_13716 TQ1157790431 0.87 04/08/2003 Non- native broadleaved woodland Native broadleaved woodland Scrub 30 | Index Ditches (water filled) Image: Constraint of the sector of the sec |

| Site Name | Polygon ID | Grid Ref | Site Area | Survey Date | Habitat Type | Area (%) | Area (ha) | Survey Type |
|---------------------------------------|----------------|--------------|-----------|-------------|---------------------------------------|----------|-----------|-------------|
| | | | (ha) | | | | | |
| Pinner Green, Rough grassland to N of | GiGL_HAB_13717 | TQ1151290502 | 0.72 | 04/08/2003 | Ruderal or ephemeral | 50 | 0.36 | Lon(P1) |
| allotments | | | | | Neutral grassland (herb-rich) | 50 | 0.36 | |
| The Grail Centre, Formal Gardens | GiGL_HAB_13718 | TQ1181690296 | 1.07 | 06/08/2003 | Planted shrubbery | 30 | 0.32 | Lon(P1) |
| | | | | | Scattered trees | 30 | 0.32 | |
| | | | | | Improved or re-seeded agricultural | 30 | 0.32 | |
| | | | | | grassland | 10 | 0.11 | |
| | | | | | Vegetated walls, tombstones etc. | | | |
| The Grail Centre, Pond | GiGL_HAB_13719 | TQ1180790231 | 0.08 | 06/08/2003 | Other | 100 | 0.08 | Lon(P1) |
| The Grail Centre, Grassland to W of | GiGL_HAB_13720 | TQ1174490296 | 1.54 | 06/08/2003 | Acid grassland | 40 | 0.61 | Lon(P1) |
| site | | | | | Scattered trees | 20 | 0.31 | |
| | | | | | Planted shrubbery | 10 | 0.15 | |
| | | | | | Non- native broadleaved woodland | 10 | 0.15 | |
| | | | | | Native broadleaved woodland | 10 | 0.15 | |
| | | | | | Native hedge | 10 | 0.15 | |
| The Grail Centre, Woodland to SW of | GiGL HAB 13721 | TQ1172390195 | 0.69 | 06/08/2003 | Native broadleaved woodland | 50 | 0.35 | Lon(P1) |
| site | | | | | Scrub | 20 | 0.14 | |
| | | | | | tall herbs | 10 | 0.07 | |
| | | | | | Planted shrubbery | 10 | 0.07 | |
| | | | | | Non- native broadleaved woodland | 10 | 0.07 | |
| Rail side | GiGL_HAB_13734 | TQ1215789509 | 3.47 | 12/09/2003 | Native broadleaved woodland | 60 | 2.08 | Lon(P1) |
| | | | | | Non- native broadleaved woodland | 30 | 1.04 | , , , |
| | | | | | Scrub | 10 | 0.35 | |
| Rail side | GiGL HAB 13735 | TQ1136889822 | 2.08 | 10/10/2003 | Scattered trees | 40 | 0.83 | Lon(P1) |
| | | | | | Neutral grassland (semi-improved) | 20 | 0.41 | |
| | | | | | Ruderal or ephemeral | 20 | 0.41 | |
| | | | | | tall herbs | 15 | 0.31 | |
| Missing Site Name, and parcel name | GiGL HAB 13889 | TQ1196790312 | 0.47 | 00/00/0000 | | | | Lon(P1) |
| Little Common, Pinner, S half of Park | GiGL HAB 13895 | TQ1186889904 | 0.87 | 06/08/2003 | Amenity grassland (80%, 0.7ha) | | | Lon(P1) |
| | | | | | Scrub (10%, 0.09ha) | | | |
| | | | | | Scattered trees (10%, 0.09ha) | | | |
| Little Common, Pinner, Childrens Play | GiGL HAB 13896 | TQ1185089995 | 0.45 | 06/08/2003 | Scattered trees (50%, 0.23ha) | | | Lon(P1) |
| Area and Oak Copse | | | | 20,00,2000 | Bare artificial habitat (50%, 0.23ha) | | | |

| Site Name | Polygon ID | Grid Ref | Site Area (ha) | Survey Date | Habitat Type | Area (%) | Area (ha) | Survey Type |
|---|----------------|--------------|-------------------|-------------|---|----------|-----------|-------------|
| Little Common, Pinner, Woodland/scrub clump to N of Park | GiGL_HAB_13897 | TQ1183290047 | 0.24 | 06/08/2003 | Scrub (50%, 0.12ha) Native broadleaved woodland (50%, 0.12ha) | | | Lon(P1) |
| Pinner Recreation Ground | GiGL_HAB_13898 | TQ1157089712 | 1.25 | 18/09/2003 | Amenity grassland (85%, 1.06ha) Scattered trees (5%, 0.06ha) Non-native hedge (5%, 0.06ha) Native hedge (5%, 0.06ha) | | | Lon(P1) |
| Meredith Close 'Private Green' | GiGL_HAB_13990 | TQ1177391230 | 0.32 | 05/09/2003 | Amenity grassland (80%, 0.26ha) Scattered trees (20%, 0.06ha) | | | Lon(P1) |
| Fenced triangle of grassland 294, Marsworth Gree | GiGL_HAB_13991 | TQ1187390918 | 0.44 | 05/09/2003 | Neutral grassland (semi-improved) (90%, 0.4ha) Scrub (5%, 0.02ha) Scattered trees (5%, 0.02ha) | | | Lon(P1) |

5.2 BAP Condition Assessment & Habitat Suitability

The London Biodiversity Partnership (LBP) habitat suitability dataset was created to promote the preservation, restoration and re-creation of priority habitats. This is a modelled dataset which, if used to create one or more of the nine selected BAP priority habitats, should give the best benefit to biodiversity in London.

Launched in 2010, this dataset is based on methods developed with the London Biodiversity Partnership's Habitat Action Plan (HAP) groups. GiGL mapped Biodiversity Action Plan (BAP) habitat distribution using information from GLA habitat surveys, and assessed their condition using species records and other datasets. Further to this work, GiGL created a predictive model of areas suitable for either maintaining existing BAP habitat, expanding areas of BAP habitat or creating new BAP habitats. Again, the methodology was designed in partnership with the HAP groups, and includes factors such as soil type.

This dataset was a one-off project and is not updated.

| Site Name | Polygon ID | Grid Ref | Site Area (ha) | Created Date | Habitat Condition | Area (ha) | Habitat Suitability | Area (ha) |
|--|----------------|--------------|-------------------|--------------|---|--------------|--|-----------------------|
| The Gravel Pits B1120 | GiGL_HAB_11831 | TQ0838891349 | 5.57 | 2004 | Wood Unknown condition (management not known) | 4.44 | Create new/restore relict wood | 5.56 |
| The Gravel Pits B1120, Copse Wood Spinney | GiGL_HAB_11832 | TQ0840491190 | 0.40 | 2004 | Wood Unknown condition (management not known) | 0.36 | Create new/restore relict wood | 0.40 |
| Northwood Golf Course, Greens | GiGL_HAB_11833 | TQ0886990802 | 41.40 | 2004 | Wood Unknown condition (management not known) Species Rich Acid grass CAT C | 8.25 2.06 | Create new/restore relict acid grass | 41.27 |
| Northwood Golf Course, SINC Area | GiGL_HAB_11834 | TQ0925390679 | 4.82 | 2004 | Wood Unknown condition (management not known) | 0.96 | Create new/restore relict wood | 4.81 |
| Coniston Gardens open space | GiGL_HAB_11866 | TQ1013089099 | 1.23 | 2004 | | | Create new/restore relict wood | 1.22 |
| Haste Hill Golf Course, Golf Course | GiGL_HAB_11867 | TQ0921790140 | 33.11 | 2004 | Species Rich Acid grass CAT B | 1.65 | Create new/restore relict pond Expand existing acid grass Create new/restore relict reed | 31.36 1.65 0.66 |
| Haste Hill Golf Course, East copse | GiGL_HAB_11868 | TQ0952090350 | 2.61 | 2004 | Wood Unknown condition (management not known) Meadow condition Poor | 1.72 0.13 | Create new/restore relict meadow | 0.88 |
| Haste Hill Golf Course, SE Copse | GiGL_HAB_11869 | TQ0962189950 | 3.05 | 2004 | Wood Unknown condition (management not known) Meadow condition Poor | 0.76 0.55 | Create new/restore relict meadow | 3.04 |
| Wiltshire Meadows, Wiltshire Meadows North | GiGL_HAB_11870 | TQ0959589469 | 0.65 | 2004 | Meadow condition Poor | 0.52 | Create new/restore relict meadow | 0.65 |
| Wiltshire Meadows, Wiltshire Meadows - South | GiGL_HAB_11871 | TQ0968689363 | 5.77 | 2004 | | | Create new/restore relict wood | 5.75 |
| Haydon Hall Meadows, North pasture - small holding | GiGL_HAB_11872 | TQ1046189978 | 0.99 | 2004 | Meadow condition Poor | 0.79 | Create new/restore relict meadow | 0.99 |
| Haydon Hall Meadows, Grazing field | GiGL_HAB_11873 | TQ1035389762 | 5.12 | 2004 | | | Create new/restore relict wood | 5.10 |
| Haydon Hall Meadows, R.Pinn corridor | GiGL_HAB_11874 | TQ1052189529 | 2.00 | 2004 | Wood Unknown condition (management not known) | 1.20 | Create new/restore relict reed | 0.40 |
| Haydon Hall Meadows, Long Meadow | GiGL_HAB_11875 | TQ1057789613 | 4.76 | 2004 | | | Create new/restore relict wood | 4.74 |
| Haydon Hall Meadows, Wrenwood Meadow - North | GiGL_HAB_11876 | TQ1069589345 | 2.37 | 2004 | Meadow condition Poor | 1.65 | Create new/restore relict meadow | 2.36 |
| Haydon Hall Meadows, Wrenwood Meadow - West | GiGL_HAB_11877 | TQ1072489185 | 3.10 | 2004 | Meadow condition Poor | 2.47 | Create new/restore relict meadow Create new/restore relict floodplain GM | 3.09 0.62 |
| Haydon Hall Meadows, Brush to SW | GiGL_HAB_11878 | TQ1054889133 | 0.60 | 2004 | | | Create new/restore relict wood | 0.60 |
| Haydon Hall Meadows, Wrenwood Meadows - East | GiGL_HAB_11879 | TQ1073789256 | 0.70 | 2004 | | | Create new/restore relict wood | 0.70 |
| Haydon Hall Meadows, Footpath and greenspace to West | GiGL_HAB_11880 | TQ1051589916 | 1.40 | 2004 | Wood Unknown condition (management not known) | 0.84 | Create new/restore relict wood | 1.40 |
| River Pinn near Eastcote, Long Meadow open space | GiGL_HAB_11881 | TQ1097688991 | 5.80 | 2004 | Wood Unknown condition (management not known) | 1.16 | Create new/restore relict floodplain GM Create new/restore relict reed | 5.78 0.58 |
| River Pinn near Eastcote, Cheney Street open space | GiGL_HAB_11882 | TQ1137389046 | 2.31 | 2004 | Wood Unknown condition (management not known) | 0.69 | Create new/restore relict wood | 2.30 |
| Hogs Back open space, Woodlands circumference | GiGL_HAB_11887 | TQ1024290919 | 2.78 | 2004 | Wood Unknown condition (management not known) | 1.94 | Create new/restore relict wood | 2.77 |

| Site Name | Polygon ID | Grid Ref | Site Area (ha) | Created Date | Habitat Condition | Area (ha) | Habitat Suitability | Area (ha) |
|---|--------------------|----------------|-------------------|--------------|---|-----------|---|-----------|
| Hogs Back open space, Clearing at top | GiGL HAB 11888 | TQ1033390847 | 2.04 | 2004 | | | Create new/restore relict wood | 2.03 |
| St Johns School, South Sports Field | GiGL_HAB_11889 | TQ1047091289 | 4.94 | 2004 | Meadow condition Poor | 0.10 | Create new/restore relict meadow | 4.92 |
| St Johns School, Thick hedgerow to East margin | GiGL_HAB_11890 | TQ1062091384 | 0.86 | 2004 | Meadow condition Poor | 0.09 | Create new/restore relict meadow | 0.86 |
| | | | | | | | Create new/restore relict pond | 0.77 |
| St Johns School, Donkey Field | GiGL_HAB_11891 | TQ1064891139 | 1.28 | 2004 | Floodplain G M condition Poor | 0.9 | Create new/restore relict floodplain GM | 0.51 |
| | | | | | Meadow condition Poor | 0.77 | Create new/restore relict meadow | 0.38 |
| St Johns School, Main building complex and grassland to South | GiGL_HAB_11892 | TQ1050791492 | 2.78 | 2004 | | | Create new/restore relict pond | 2.77 |
| St Johns School, Nature Trail | GiGL_HAB_11893 | TQ1043891666 | 1.71 | 2004 | Wood Unknown condition (management not | 0.34 | Create new/restore relict meadow | 1 |
| | | | | | known) | 0.34 | Create new/restore relict pond | 0.85 |
| | | | | | Species Rich Acid grass CAT B | 0.17 | Expand existing acid grass | 0.34 |
| | | | | | Meadow condition Poor Pond condition Poor | 0.02 | | |
| St Johns School, North playing field | GiGL HAB 11894 | TQ1052591661 | 1.00 | 2004 | | | Create new/restore relict pond | 1.00 |
| St Johns School, East ponds (#2) | GiGL HAB 11895 | TQ1059191503 | 0.12 | 2004 | Pond condition Poor | 0.08 | Create new/restore relict pond | 0.12 |
| Raisins Hill Common | GiGL HAB 11896 | TQ1112689642 | 1.15 | 2004 | | | Create new/restore relict wood | 1.14 |
| Cuckoo Hill | GiGL HAB 11897 | TQ1104389388 | 2.37 | 2004 | | 1 | Create new/restore relict wood | 2.36 |
| Ruislip Woods, Park Wood | GiGL_HAB_11929 | TQ0918389102 | 107.27 | 2004 | Wood Good condition (under active | 83.41 | Create new/restore relict meadow | 99.45 |
| | | - | - | | management) | 5.35 | Create new/restore relict floodplain GM | 99.45 |
| | | | | | Meadow condition Poor | 5.35 | Create new/restore relict pond | 94.1 |
| | | | | | Floodplain G M condition Poor | 2.14 | Expand existing acid grass | 2.14 |
| | | | | | Species Rich Acid grass CAT B | | | |
| Ruislip Woods, Grub Ground Pond | GiGL_HAB_11930 | TQ0967088872 | 0.06 | 2004 | Wood Unknown condition (management not | 0.02 | Create new/restore relict pond | 0.06 |
| | | | | | known) | 0.01 | | |
| | | | | | Pond condition Poor | | | |
| Ruislip Woods, Ruislip Lido | GiGL_HAB_11931 | TQ0883989357 | 15.44 | 2004 | Reed condition Good | 0.15 | Expand existing reed | 14.62 |
| Ruislip Woods, Lake | GiGL_HAB_11932 | TQ0899889900 | 0.37 | 2004 | Pond condition Poor | 0.30 | Create new/restore relict pond | 0.37 |
| | | | | | | | Create new/restore relict reed | 0.3 |
| Ruislip Woods, Locked Nature Reserve Woodland | GiGL_HAB_11933 | TQ0896889982 | 4.03 | 2004 | Wood Unknown condition (management not | 3.01 | Create new/restore relict pond | 3.54 |
| | | | | | known) | 0.4 | Create new/restore relict meadow | 3.38 |
| | | | | | Pond condition Poor | 0.24 | Create new/restore relict floodplain GM | 3.38 |
| | | | | | Meadow condition Poor | 0.24 | Create new/restore relict reed | 0.4 |
| Duislin Maada Tha Finzar | | TO0002500105 | 1.02 | 2004 | Floodplain G M condition Poor | 0.52 | Create new (restars relist new d | 1.02 |
| Ruislip Woods, The Finger | GiGL_HAB_11934 | TQ0883590185 | 1.03 | 2004 | Wood Unknown condition (management not known) | 0.52 | Create new/restore relict pond | 1.03 |
| Ruislip Woods, Poors Field | GiGL_HAB_11935 | TQ0875389763 | 16.49 | 2004 | Species Rich Acid grass CAT B | 7.73 | Expand existing acid grass | 7.73 |
| | 010L_11AD_11955 | 1008/3389/03 | 10.49 | 2004 | Species Rich Heath CAT B | 1.64 | Create new/restore relict pond | 7.07 |
| | | | | | | 1.04 | Maintain existing heath | 1.64 |
| Ruislip Woods, Copse Wood | GiGL_HAB_11936 | TQ0821490036 | 79.96 | 2004 | Wood Good condition (under active | 55.79 | Create new/restore relict meadow | 23.92 |
| | 0.01 | . 20022 .00000 | 10100 | 2001 | management) | 3.99 | | |
| | | | | | Meadow condition Poor | | | |
| Ruislip Woods, Amenity Grassland west of Lido | GiGL HAB 11937 | TQ0870689375 | 7.08 | 2004 | Meadow condition Poor | 2.12 | Create new/restore relict meadow | 7.06 |
| | | | | | | | Create new/restore relict pond | 4.94 |
| Ruislip Wood, Lido Roughland | GiGL_HAB_11938 | TQ0885989507 | 1.00 | 2004 | | | Create new/restore relict wood | 0.99 |
| Ruislip Woods, Aspen Wood | GiGL_HAB_11939 | TQ0889289583 | 1.11 | 2004 | Wood Unknown condition (management not known) | 0.94 | Create new/restore relict wood | 1.11 |
| Ruislip Woods, Scrubland near car park | GiGL_HAB_11940 | TQ0853289389 | 1.17 | 2004 | Wood Unknown condition (management not | 0.47 | Create new/restore relict pond | 0.82 |
| | 0.020_11940 | . 40000200000 | 1.17 | 2004 | known) | 0.35 | Expand existing acid grass | 0.35 |
| | | | | | Species Rich Acid grass CAT A | | | |
| Ruislip Woods, Grub Ground | GiGL_HAB_11941 | TQ0976788817 | 10.66 | 2004 | Wood Unknown condition (management not | 4.36 | Expand existing acid grass | 3.72 |
| . / | | | | | known) | 3.72 | Create new/restore relict pond | 2.55 |
| | | | | | Species Rich Acid grass CAT B | | | _ |
| Ruislip and Northolt Co-op Allotmentholders | GiGL_HAB_12049 | TQ1032990028 | 2.32 | 2004 | | | Create new/restore relict wood | 2.31 |
| Haste Hill Farm | GiGL_HAB_12050 | TQ0980289456 | 0.83 | 2004 | | | Create new/restore relict wood | 0.83 |



| Site Name | Polygon ID | Grid Ref | Site Area (ha) | Created Date | Habitat Condition | Area (ha) | Habitat Suitability | Area (ha) |
|--|--------------------|--------------|-------------------|--------------|---|--------------|--|---------------|
| St. Vincent's Hospital, Heatherfold Way Field | GiGL_HAB_12051 | TQ0967189724 | 1.08 | 2004 | | | Create new/restore relict wood | 1.08 |
| St. Vincent's Hospital, North Grounds | GiGL_HAB_12052 | TQ0962189813 | 0.54 | 2004 | | | Create new/restore relict wood | 0.53 |
| St. Martin's School | GiGL HAB 12055 | TQ0860592106 | 1.96 | 2004 | | | Create new/restore relict wood | 1.95 |
| Northwood FC | GiGL_HAB_12080 | TQ0983790325 | 1.71 | 2004 | | | Create new/restore relict wood | 1.71 |
| Fore Street Meadow | GiGL_HAB_12093 | TQ0995889116 | 2.83 | 2004 | | | Create new/restore relict wood | 2.82 |
| Frithwood School | GiGL_HAB_12095 | TQ0968591749 | 0.70 | 2004 | | | Create new/restore relict wood | 0.70 |
| Old Pumping Station Fields, Old Pumping Station Field - north | GiGL_HAB_12233 | TQ0840789381 | 3.02 | 2004 | Meadow condition Poor | 2.56 | Create new/restore relict meadow Create new/restore relict pond | 3.01 0.45 |
| Riverside Walk at Eastcote Road | GiGL_HAB_12296 | TQ1045388560 | 1.39 | 2004 | | | Create new/restore relict reed | 0.35 |
| Eastcote House gardens | GiGL HAB 12297 | TQ1071888713 | 3.17 | 2004 | | | Create new/restore relict floodplain GM | 3.16 |
| Haydon Hall Park, Eastcote Cricket Club | GiGL_HAB_12298 | TQ1054789025 | 3.99 | 2004 | | | Create new/restore relict floodplain GM | 3.98 |
| Haydon Hall Park, Woodland arounr River Pinn | GiGL_HAB_12299 | TQ1057888841 | 2.18 | 2004 | Wood Unknown condition (management not known) | 0.86 | Create new/restore relict wood | 2.17 |
| Northwood Cemetery | GiGL_HAB_12302 | TQ0969990260 | 6.43 | 2004 | | | Create new/restore relict wood | 6.41 |
| Northwood Recreation Ground | GiGL HAB 12303 | TQ0973690550 | 1.91 | 2004 | | | Create new/restore relict wood | 1.90 |
| Northwood Recreation Ground, Northwood Recreation Ground amenity area | GiGL_HAB_12304 | TQ0991090294 | 7.76 | 2004 | | | Create new/restore relict wood | 7.74 |
| St Helens School | GiGL HAB 12305 | TQ0947091591 | 7.42 | 2004 | | | Create new/restore relict wood | 7.40 |
| Metropolital Line - Watford Branch | GiGL_HAB_12306 | TQ1054190087 | 2.86 | 2004 | | | Create new/restore relict wood | 2.85 |
| Metropolital Line - Watford Branch, Northwood Hills to Northwood Tube | GiGL_HAB_12307 | TQ0952690864 | 5.23 | 2004 | | | Create new/restore relict wood | 5.22 |
| Metropolital Line - Watford Branch, Northwood Tube to north Hillingdon boundary | GiGL_HAB_12308 | TQ0917091768 | 3.27 | 2004 | | | Create new/restore relict wood | 3.26 |
| Harlyn Primary & Nursery School | GiGL HAB 12316 | TQ1074489828 | 1.87 | 2004 | | | Create new/restore relict wood | 1.86 |
| Grangewood School and Coteford Junior School Grounds | GiGL_HAB_12317 | TQ0998988819 | 5.09 | 2004 | Wood Unknown condition (management not known) | 2.03 | Create new/restore relict wood | 5.08 |
| Haydon School grounds | GiGL_HAB_12318 | TQ1011989545 | 7.31 | 2004 | | | Create new/restore relict wood | 7.29 |
| Northwood Comprehensive School & Sports Centre | GiGL_HAB_12319 | TQ1048790551 | 5.99 | 2004 | | | Create new/restore relict wood | 5.97 |
| Frithwood Park | GiGL_HAB_12320 | TQ0956891789 | 1.07 | 2004 | | | Create new/restore relict wood | 1.07 |
| Chestnut Avenue Allotments | GiGL_HAB_12363 | TQ0970790438 | 0.93 | 2004 | | | Create new/restore relict wood | 0.93 |
| Pinnerwood Farm | GiGL HAB 13703 | TQ1192591800 | 47.42 | 2003 | | | Create new/restore relict wood | 47.27 |
| Pinner Hill Golf Course, Greens, Roughs and (dry) ditches | GiGL_HAB_13706 | TQ1112391402 | 31.53 | 2003 | Species Rich Acid grass CAT B | 4.71 | Create new/restore relict pond Expand existing acid grass | 26.72 4.71 |
| Pinner Hill Golf Course, Pond | GiGL_HAB_13707 | TQ1101991466 | 0.16 | 2003 | Pond condition Poor Wood Unknown condition (management not known) | 0.08 0.05 | Create new/restore relict pond | 0.16 |
| Pinner Hill Golf Course, Wide Ditch and Pond | GiGL_HAB_13708 | TQ1105591618 | 0.80 | 2003 | Pond condition Poor | 0.24 | Create new/restore relict pond | 0.79 |
| Pinner Hill Golf Course, Dispersed woodland and hedgerow features | GiGL_HAB_13709 | TQ1132091395 | 18.81 | 2003 | Wood Unknown condition (management not known) | 18.75 | Create new/restore relict pond | 0.00 |
| Pinner Hill Golf Course, Pinnerhill Golf Club | GiGL_HAB_13710 | TQ1152991191 | 0.63 | 2003 | Pond condition Average | 0.13 | Expand existing pond | 0.50 |
| Pinner Hill Golf Course, Pond with ditch to NE corner | GiGL HAB 13711 | TQ1136791868 | 0.32 | 2003 | | | | |
| Pinner Green, Montesoles Playing Fields | GiGL HAB 13712 | TQ1143790319 | 5.51 | 2003 | | | Create new/restore relict wood | 5.49 |
| Pinner Green, Course of stream and riparian habitats | GiGL HAB 13713 | TQ1131090319 | 0.50 | 2003 | | | Create new/restore relict wood | 0.50 |
| Pinner Green, Grim's Dyke | GiGL_HAB_13714 | TQ1144090525 | 1.59 | 2003 | Wood Unknown condition (management not known) | 1.59 | Create new/restore relict wood | 1.59 |
| Pinner Green, Pinner Chalk Mine aka Dingles Chalk Mine | GiGL_HAB_13715 | TQ1160690542 | 1.31 | 2003 | Wood Unknown condition (management not known) | 0.78 | Create new/restore relict wood | 1.30 |
| Pinner Green, Allotments | GiGL_HAB_13716 | TQ1157790431 | 0.87 | 2003 | | | | |
| Pinner Green, Rough grassland to N of allotments | GiGL HAB 13717 | TQ1151290502 | 0.72 | 2003 | Meadow condition Poor | 0.36 | Create new/restore relict meadow | 0.72 |
| The Grail Centre, Formal Gardens | GiGL_HAB_13718 | TQ1181690296 | 1.07 | 2003 | | | Create new/restore relict wood | 1.07 |
| The Grail Centre, Pond | GiGL_HAB_13719 | TQ1180790231 | 0.08 | 2003 | | 1 | | |

| Site Name | Polygon ID | Grid Ref | Site Area | Created Date | Habitat Condition | Area (ha) | Habitat Suitability | Area (ha) |
|--|----------------|--------------|-----------|--------------|--|-----------|--------------------------------|-----------|
| | i ciygon ib | Ghù hei | (ha) | cicated bate | | | | |
| The Grail Centre, Grassland to W of site | GiGL_HAB_13720 | TQ1174490296 | 1.54 | 2003 | Species Rich Acid grass CAT B | 0.61 | Expand existing acid grass | 0.61 |
| | | | | | Wood Unknown condition (management not | 0.3 | | |
| | | | | | known) | | | |
| The Grail Centre, Woodland to SW of site | GiGL_HAB_13721 | TQ1172390195 | 0.69 | 2003 | Wood Unknown condition (management not | 0.41 | Create new/restore relict wood | 0.69 |
| | | | | | known) | | | |
| Rail side | GiGL_HAB_13734 | TQ1215789509 | 3.47 | 2003 | Wood Unknown condition (management not | 3.12 | Create new/restore relict wood | 3.46 |
| | | | | | known) | | | |
| Rail side | GiGL_HAB_13735 | TQ1136889822 | 2.08 | 2003 | | | Create new/restore relict wood | 2.07 |
| Missing Site Name, and parcel name | GiGL_HAB_13889 | TQ1196790312 | 0.47 | 0000 | | | | |
| Little Common, Pinner, S half of Park | GiGL_HAB_13895 | TQ1186889904 | 0.87 | 2003 | | | Create new/restore relict wood | 0.87 |
| Little Common, Pinner, Childrens Play Area and Oak Copse | GiGL_HAB_13896 | TQ1185089995 | 0.45 | 2003 | | | Create new/restore relict wood | 0.45 |
| Little Common, Pinner, Woodland/scrub clump to N of Park | GiGL_HAB_13897 | TQ1183290047 | 0.24 | 2003 | Wood Unknown condition (management not | 0.12 | Create new/restore relict wood | 0.24 |
| | | | | | known) | | | |
| Pinner Recreation Ground | GiGL_HAB_13898 | TQ1157089712 | 1.25 | 2003 | | | Create new/restore relict wood | 1.25 |
| Meredith Close 'Private Green' | GiGL_HAB_13990 | TQ1177391230 | 0.32 | 2003 | | | Create new/restore relict wood | 0.32 |
| Fenced triangle of grassland 294, Marsworth Gree | GiGL_HAB_13991 | TQ1187390918 | 0.44 | 2003 | | | Create new/restore relict wood | 0.44 |



6.0 Open Spaces

Open space information within the search area can be seen on the following pages.

The table can be cross-referenced with the Open Space Map.

This open space dataset is a combination of information collected during GLA surveys, information provided to GiGL by the London boroughs and data sourced through other means, e.g. volunteer surveys.

Note that GiGL does not currently hold open space data for all areas. Even where data is held, a lack of records in a defined geographical area does not necessarily mean that the open space features do not occur there – the area may simply not have been surveyed.

GiGL uses to following open space definition: undeveloped land which has an amenity value, or has potential for an amenity value. The value could be visual, derive from a site's historical or cultural interest or from the enjoyment of facilities which it provides. It includes both public and private spaces, but excludes private gardens.

6.1 Open Space Data

The dataset documents the primary and secondary uses of open space (divided according to broad land use categories) along with other information such as public accessibility, facilities, and special designations which apply to the site. For further details of open space typology and designation categories please also refer to the Supporting Information section of the Annex.

| Site Name | Polygon ID | Grid Ref | Site Area | | Open Space Typology | | Public Open Space Awards and | Public Access | Facilities |
|---------------------------------------|------------|--------------|-----------|---------------------------|---------------------------|---------------------------|------------------------------|---------------|-----------------------------|
| | | | (ha) | Land use category | Primary use | Secondary uses | Designations | | |
| Albury Drive | OS_Hr_0266 | TQ1123290813 | 0.16 | Amenity | amenity green space | | | Free | |
| Cheney Street | OS_Hr_0301 | TQ1135689154 | 0.29 | Natural And Semi-natural | private woodland | | SINC (64%) | | |
| | | | | Urban Greenspace | | | | | |
| Chestnut Avenue Allotments | OS_Hi_0055 | TQ0970790438 | 0.93 | Allotments, Community | allotments | | Green Belt (100%) | restricted | |
| | | | | Gardens And City Farms | | | | | |
| Coniston Gardens open space | OS_Hi_0063 | TQ1013089098 | 1.23 | Parks And Gardens | park | | Small Open Space | free | |
| Cuckoo Hill | OS_Hi_0075 | TQ1104389388 | 2.37 | Amenity | amenity green space | | Local Park and Open Space | free | |
| Eastcote House gardens | OS_Hi_0090 | TQ1071888713 | 3.17 | Parks And Gardens | park | | Local Park and Open Space | free | Car parking |
| | | | | | | | Green chain | | Historic features |
| | | | | | | | Green Flag Award - 2012 | | Horse riding |
| | | | | | | | | | Information |
| | | | | | | | | | Litter bins |
| | | | | | | | | | Seats |
| Fore Street Meadow | OS_Hi_0112 | TQ0995889116 | 2.83 | Other Urban Fringe | agriculture | | SINC (100%) | none | |
| | | | | | | | Green Belt (97%) | | |
| Frithwood Park | OS_Hi_0120 | TQ0956891789 | 1.07 | Parks And Gardens | park | | Small Open Space | free | Dog litter bins/area |
| | | | | | | | | | Litter bins |
| | | | | | | | | | Play for under 7s |
| | | | | | | | | | Seats |
| | | | | | | | | | Tennis court |
| Frithwood School | OS_Hi_0121 | TQ0968591749 | 0.70 | Amenity | educational | | | restricted | |
| Grangewood School and Coteford Junior | OS_Hi_0131 | TQ0998988819 | 5.09 | Amenity | educational | | SSSI (8%) | restricted | Athletics track |
| School Grounds | | | | | | | NNR (8%) | | Car parking |
| | | | | | | | SINC (10%) | | Disabled facilities |
| | | | | | | | Green Belt (20%) | | Information |
| | | | | | | | | | Litter bins |
| | | | | | | | | | Nature trail |
| | | | | | | | | | Play for 7-13 |
| | | | | | | | | | Recycling facilities |
| | | | | | | | | | Seats |
| | | | | | | | | | Toilets |
| Greenway | OS_Hr_0327 | TQ1091590427 | 0.20 | Amenity | amenity green space | | | Free | |
| Harlyn Primary & Nursery School | OS_Hi_0149 | TQ1074489828 | 1.87 | Amenity | educational | | | restricted | Play for 7-13 |
| | | | | | | | | | Play for under 7s |
| Haste Hill Farm | OS_Hi_0155 | TQ0980289456 | 0.83 | Other Urban Fringe | agriculture | | Green Belt (98%) | de facto | |
| Haste Hill Golf Course | OS_Hi_0156 | TQ0928890127 | 38.76 | Outdoor Sports Facilities | golf course | | SINC (11%) | restricted | Car parking |
| | | | | | | | Green Belt (100%) | | Golf course |
| | | | | | | | | | Information |
| | | | | | | | | | Litter bins |
| | | | | | | | | | Refreshments |
| | | | | | | | | | Waymarked walking rout |
| Haydon Hall Meadows | OS_Hi_0157 | TQ1054189566 | 21.04 | | agriculture; nature | agriculture; nature | SINC (45%) | None | |
| | | | | | reserve; other (specify); | reserve; other (specify); | Green Belt (98%) | | |
| | | | | | river; vacant land | river; vacant land | | | |



| Site Name | Polygon ID | Grid Ref | Site Area | | Open Space Typology | 1 | Public Open Space Awards and | Public Access | Facilities |
|---|------------|--------------|-----------|---|--------------------------------|----------------|---|------------------------|--|
| | | | (ha) | Land use category | Primary use | Secondary uses | Designations | | |
| Haydon Hall Park | OS_Hi_0158 | TQ1054888954 | | Outdoor Sports Facilities | playing fields | common | Local Park and Open Space SINC (48%) Conservation Area Green chain | De facto Restricted | Car parking Changing rooms Cricket pitch Full playing pitch Information Toilets |
| Haydon School grounds | OS_Hi_0159 | TQ1011989545 | | Amenity | educational | | | restricted | Tennis court |
| Hogs Back open space | OS_Hi_0182 | TQ1029190893 | 4.81 | Amenity | amenity green space | | Local Park and Open Space SINC (88%) | free | Information |
| Jubilee Close | OS_Hr_0449 | TQ1131690445 | 0.25 | Amenity | landscaping around premises | | | Free | |
| Jubilee Close Play Area | OS_Hr_0450 | TQ1132390417 | 0.01 | Children And Teenagers | play space | | | Free | |
| Little Common, Pinner | OS_Hr_0072 | TQ1185189956 | 1.57 | Parks And Gardens | park | play space | Small Open Space | free | Petanque Play for 7-13 Play for under 7s |
| Marsworth Green | OS_Hr_0031 | TQ1187390918 | 0.44 | Amenity | amenity green space | | | free | |
| Meredith Close 'Private Green' | OS_Hr_0081 | TQ1177391230 | 0.32 | Amenity | amenity green space | | | free | |
| Metropolital Line - Watford Branch | OS_Hi_0227 | TQ0943390976 | 11.36 | Green Corridors | railway cutting | | SINC (28%) | none | |
| Mill Farm Close | OS_Hr_0473 | TQ1116490299 | 0.08 | Amenity | amenity green space | | | Free | |
| Montesoles Allotments | OS_Hr_0358 | TQ1157790432 | | Allotments, Community Gardens And City Farms | allotments | | | restricted | |
| Montesoles Playing Fields | OS_Hr_0097 | TQ1142890345 | 6.71 | Outdoor Sports Facilities | recreation ground | play space | | free | Basketball hoops Car parking Cricket pitch Full playing pitch Play for 7-13 Play for under 7s Skateboard area Tennis court |
| Montesoles Woodland | OS_Hr_0359 | TQ1144090525 | 2.88 | Natural And Semi-natural Urban Greenspace | public woodland | | SINC (96%) | free | |
| Northwood Cemetery | OS_Hi_0250 | TQ0969990260 | 6.43 | Cemeteries And Churchyards | cemetery/churchyard | | Green Belt (100%) | | Information Litter bins Sculptures/monuments Seats |
| Northwood Comprehensive School & Sports Centre | OS_Hi_0251 | TQ1048790551 | 5.99 | Amenity | educational | | | restricted | Cricket pitch Tennis court |
| Northwood FC | OS_Hi_0253 | TQ0983790325 | 1.71 | Outdoor Sports Facilities | playing fields | | Green Belt (100%) | restricted | All weather playing pitch Car parking Disabled facilities Floodlit playing pitch Full playing pitch Information Litter bins Natural playing pitch Refreshments Seats Toilets |



| Site Name | Polygon ID | Grid Ref | Site Area | | Open Space Typology | | Public Open Space Awards and | Public Access | Facilities |
|---|------------|--------------|-----------|---|--------------------------|-------------------------|---|---------------|---|
| | | | (ha) | Land use category | Primary use | Secondary uses | Designations | | |
| Northwood Golf Course | OS_Hi_0254 | TQ0895190802 | 46.22 | Outdoor Sports Facilities | golf course | | SINC (18%) Green Belt (99%) | restricted | Golf course Information Litter bins Refreshments Seats Toilets |
| Northwood Recreation Ground | OS_Hi_0255 | TQ0997390338 | 9.67 | Outdoor Sports Facilities | recreation ground | park | Local Park and Open Space Green Belt (99%) | free | Bowling green Cricket pitch Play for under 7s Seats Skateboard area Tennis court Waymarked walking rout |
| Nursery Road | OS_Hr_0481 | TQ1111089813 | 0.56 | Amenity | amenity green space | | | Free | |
| Old Pumping Station Fields | OS_Hi_0261 | TQ0839489300 | 8.13 | Amenity | amenity green space | | Local Park and Open Space SINC (100%) Green Belt (99%) | Free | |
| Pinner Green | OS_Hr_0486 | TQ1130789982 | 0.10 | Civic Spaces | other hard surfaced area | | | Free | |
| Pinner Hill Golf Course | OS_Hr_0098 | TQ1124891395 | 52.25 | Outdoor Sports Facilities | golf course | | SINC (99%) Conservation Area Green Belt (100%) | none | |
| Pinner Recreation Ground | OS_Hr_0101 | TQ1157089712 | 1.25 | Parks And Gardens | park | play space | Small Open Space | free | Play for 7-13 Play for under 7s |
| Pinner Wood School | OS_Hr_0353 | TQ1116590682 | 0.44 | Amenity | educational | | | None | |
| Pinnerwood Farm | OS_Hr_0104 | TQ1192591800 | 47.41 | Other Urban Fringe | agriculture | private woodland | SINC (9%) Conservation Area Green Belt (100%) | restricted | |
| Rail side (Harrow) | OS_Hr_0108 | TQ1322088812 | 17.94 | Green Corridors | railway cutting | railway embankment | | none | |
| Raisins Hill Common | OS_Hi_0290 | TQ1112689642 | 1.15 | Parks And Gardens | park | | Small Open Space | free | Dog litter bins/area Litter bins |
| River Pinn near Eastcote | OS_Hi_0300 | TQ1092188991 | 8.11 | | common; nature reserve | common; nature reserve | SINC (89%) Conservation Area Green chain | free | Information Waymarked walking rout |
| Riverside Walk at Eastcote Road | OS_Hi_0303 | TQ1045388560 | 1.39 | Green Corridors | walking/cycling route | | Linear Open Space SINC (93%) Conservation Area Green chain | free | Waymarked walking rout |
| Ruislip and Northolt Co-op Allotmentholders | OS_Hi_0308 | TQ1032990028 | 2.32 | Allotments, Community Gardens And City Farms | allotments | | Green Belt (99%) | restricted | Car parking Information |
| Ruislip Woods | OS_Hi_0313 | TQ0889889484 | 245.66 | Natural And Semi-natural Urban Greenspace | nature reserve | common; other (specify) | SSSI (86%) NNR (81%) Metropolitan Park SINC (99%) Conservation Area Green Belt (100%) Green Flag Award - 2012 | free | Car parking Cycle paths Horse riding Information Litter bins Play for 7-13 Play for under 7s Refreshments Seats Water sports |
| St Helens School | | TQ0947091591 | 7 / 7 | Amenity | educational | | Conservation Area | restricted | Waymarked walking rout |
| St Helens School | OS_Hi_0336 | 100947091591 | 7.42 | Amenity | educational | | Conservation Area | restricted | |



| Site Name | Polygon ID | Grid Ref | Site Area Open Space Typology | | | Public Open Space Awards and | Public Access | Facilities | |
|------------------------|------------|--------------|-------------------------------|--|-----------------------------|--|---|------------|---|
| | | | (ha) | Land use category | Primary use | Secondary uses | Designations | | |
| St Johns School | OS_Hi_0337 | TQ1050191386 | 12.69 | Amenity | educational | nature reserve | SINC (19%) SINC (9%) Green Belt (98%) | Restricted | Changing rooms Cricket pitch Information Nature trail Play for 7-13 |
| St. Martin's School | OS_Hi_0339 | TQ0860592106 | 1.96 | Amenity | educational | | | restricted | Car parking Changing rooms Cricket pitch Litter bins Seats Toilets |
| St. Vincent's Hospital | OS_Hi_0341 | TQ0969289753 | 1.62 | Amenity | hospital | landscaping around premises; vacant land | SINC (97%) Green Belt (100%) | De facto | |
| The Grail Centre | OS_Hr_0156 | TQ1177190258 | 3.38 | Amenity | landscaping around premises | | | none | |
| The Gravel Pits B1120 | OS_Hi_0361 | TQ0838891298 | 5.97 | Natural And Semi-natural Urban Greenspace | nature reserve | | Local Park and Open Space SINC (99%) Green Belt (92%) | free | Information Seats |
| Waxwell Lane | OS_Hr_0421 | TQ1182690453 | 0.15 | Amenity | amenity green space | | | Free | |
| Wiltshire Meadows | OS_Hi_0396 | TQ0967789363 | 6.42 | Other Urban Fringe | agriculture | landscaping around premises | SINC (10%) Green Belt (100%) | None | |
| Woodridings Brook | OS_Hr_0194 | TQ1196790312 | 0.47 | Green Corridors | river | | | None | |



7.0 Contacts

7.1 Borough Contacts

Further details of sites and species within the search area may be gathered from the following borough contacts:

London Borough of Hillingdon

Stuart Hunt Green Spaces Team (4W/08) Civic Centre Uxbridge Middlesex UB8 1UW Harrow HA1 2UY

Tel: 0208 736 6152 E-mail: denis.vickers@harrow.gov.uk

Tel: 01895 250916 Email: shunt@hillingdon.gov.uk

London Borough of Harrow

Denis Vickers Biodiversity Officer Placeshaping - Design & Conservation PO Box 37 Civic Centre Station Road



7.2 Further Contacts

The following contacts work closely with GiGL and are the best source for further advice or interpretation of the data provided by us. They are widely recognised in Greater London as the experts in their fields, and have provided the following information as the preferred method of contact.

| Areas of expertise | SINCs, open space and habitat survey data advice |
|--------------------|--|
| Organisation | GiGL – Greenspace Information for Greater London |
| Email | enquiries@gigl.org.uk |
| Website | www.gigl.org.uk |

| Areas of expertise | Black redstarts, birds, brown and green roofs |
|--------------------|---|
| Name | Dusty Gedge |
| Organisation | Livingroofs.org |
| Email | dustygedge@yahoo.co.uk |
| Website | www.livingroofs.org |

| Areas of expertise | Bats |
|--------------------|-----------------------------|
| Organisation | London Bat Group |
| Email | enquiries@londonbats.org.uk |
| Website | www.londonbats.org.uk |

| Areas of expertise | Regional biodiversity action plans |
|--------------------|------------------------------------|
| Organisation | London Biodiversity Partnership |
| Website | www.lbp.org.uk |

| Areas of expertise | Area recorders for birds (Inner London, Kent, Surrey, Buckinghamshire, Middlesex, and Essex) |
|--------------------|--|
| Organisation | London Natural History Society |
| Website | www.lnhs.org.uk |



| Areas of expertise | Plant galls |
|--------------------|--------------------------------|
| Name | Ken Hill |
| Organisation | London Natural History Society |
| Email | Ken@kenneth17.fsnet.co.uk |
| Website | www.lnhs.org.uk |

| Areas of expertise | Odonata - Dragonflies and damselflies |
|--------------------|---------------------------------------|
| Name | Neil Anderson |
| Organisation | London Natural History Society |
| Email | neil@anders42.freeserve.co.uk |
| Website | www.lnhs.org.uk |

| Areas of expertise | Invertebrates |
|--------------------|--------------------------------|
| Name | Colin W Plant |
| Organisation | London Natural History Society |
| Email | cpauk1@ntlworld.com |
| Website | www.lnhs.org.uk |

| Areas of expertise | Lichens and Fungi |
|--------------------|--------------------------------|
| Name | Ted Tuddenham |
| Organisation | London Natural History Society |
| Email | mycorec@blueyonder.co.uk |
| Website | www.lnhs.org.uk |

| Areas of expertise | Butterflies |
|--------------------|------------------------------------|
| Name | Leslie Williams |
| Organisation | London Natural History Society |
| Email | leslie.williams1597@btinternet.com |
| Website | www.lnhs.org.uk |



| Areas of expertise | Vascular plants |
|--------------------|-----------------------------------|
| Name | Mark Spencer |
| Organisation | London Natural History Society |
| Email | Lnhs_plant_recorder@hotmail.co.uk |
| Website | www.lnhs.org.uk |

| Areas of expertise | General conservation advice |
|--------------------|---------------------------------|
| Name | Conservation Programmes Manager |
| Organisation | London Wildlife Trust |
| Email | enquiries@wildlondon.org.uk |
| Website | www.wildlondon.org.uk |

| Areas of expertise | Statutory site advice |
|--------------------|------------------------------|
| Name | Conservation Officer |
| Organisation | Natural England |
| Email | london@naturalengland.org.uk |
| Website | www.naturalengland.org.uk |

| Areas of expertise | London Invasive Species Initiative |
|--------------------|---|
| Name | Joanna Heisse |
| Organisation | Environment Agency |
| Email | Joanna.heisse@environment-agency.gov.uk |
| Website | www.environment-agency.gov.uk |

| Areas of expertise | Geological Designations |
|--------------------|----------------------------------|
| Organisation | London Geodiversity Partnership |
| Email | info@londongeopartnership.org.uk |
| Website | www.londongeopartnership.org.uk |



Annex A - MAPS

Statutory Sites Map

SINCs Map

RIGS or LIGS Map

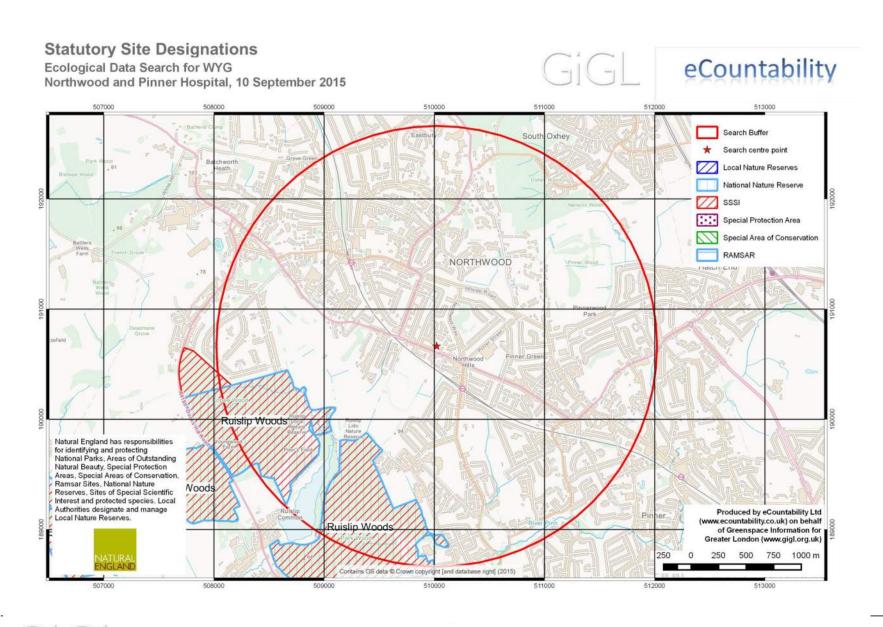
Survey Parcels Map

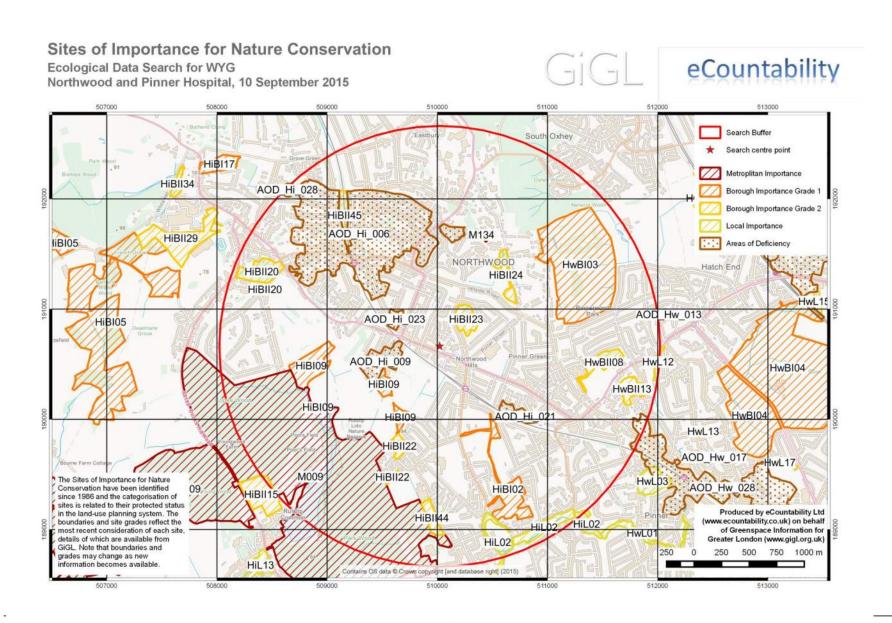
Open Space Map

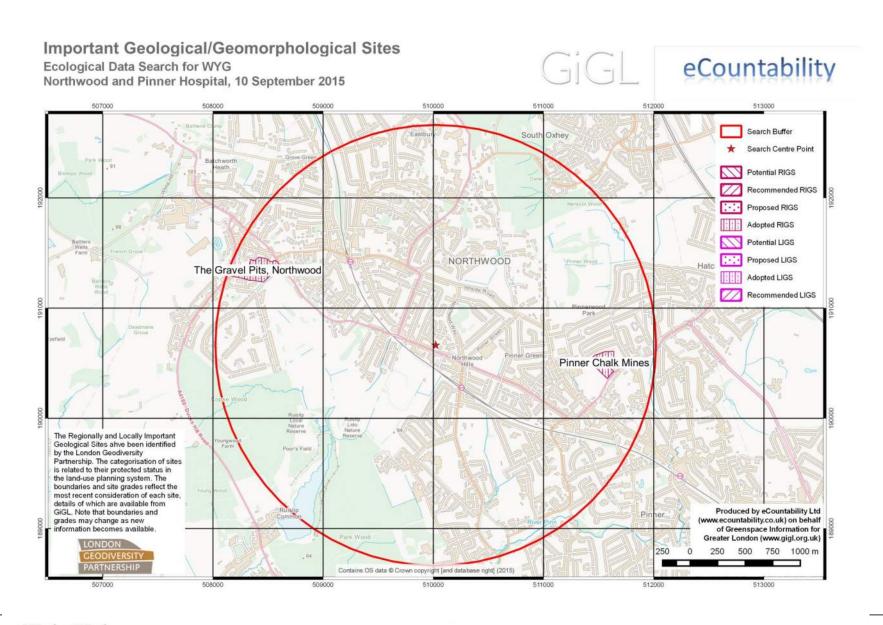
Metropolitan Open Land and Green Belt Map

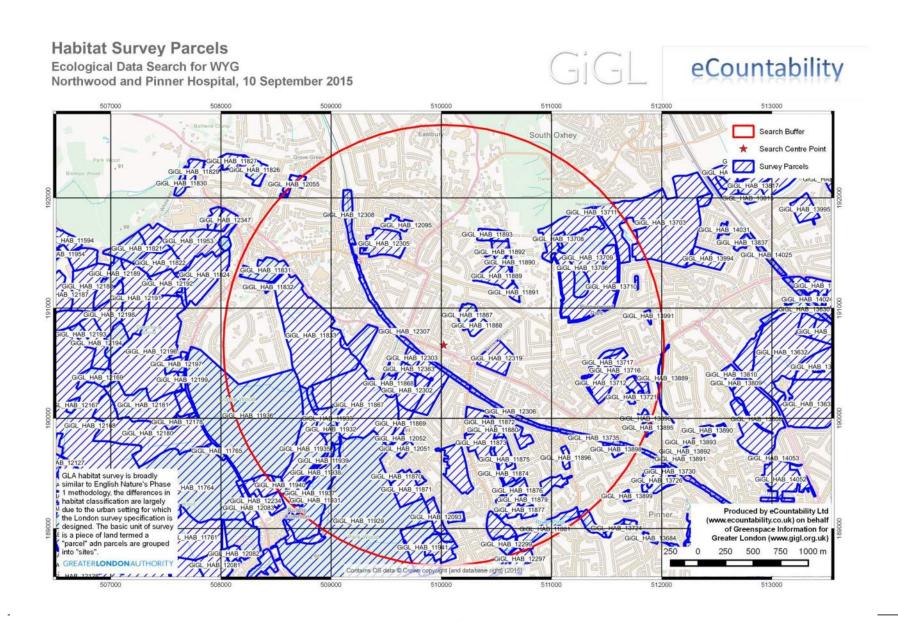
GiGL Data Holdings Check

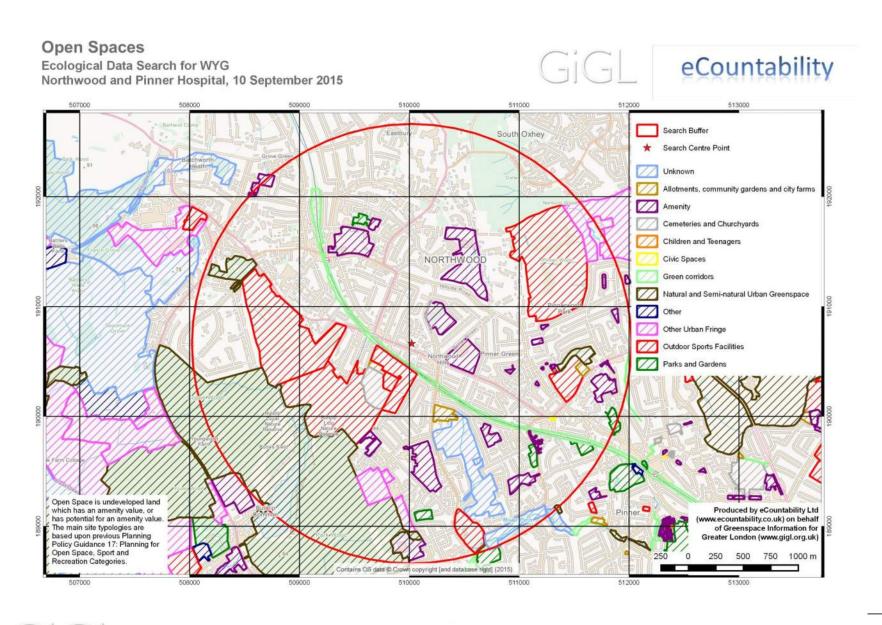


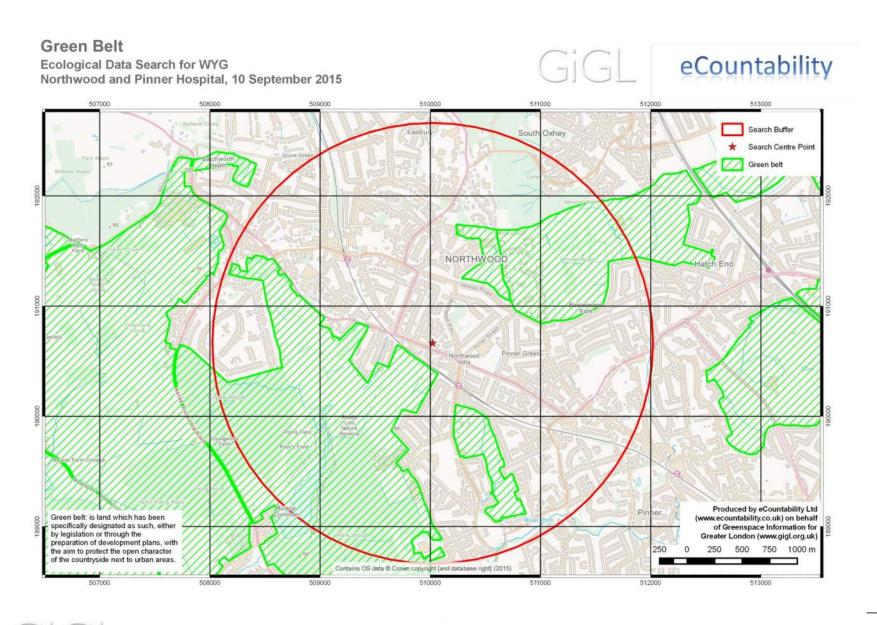


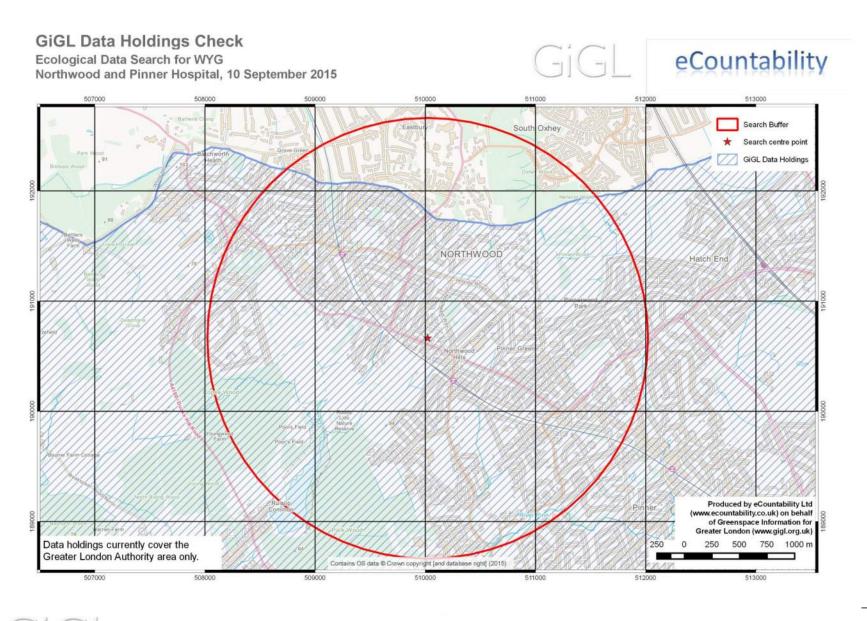












Annex B - Supporting Information

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Statutory Site Designations

Local Nature Reserve (LNR)

Land owned, leased or managed by Local Authorities and designated under the National Parks and Access to the Countryside Act. A site of some nature conservation value managed for educational objectives — no need for SSSI status. In some cases it is managed by a non-statutory body (e.g. London Wildlife Trust). Local Authorities have the power to pass bylaws controlling (e.g.) access, special protection measures.

Site of Special Scientific Interest (SSSI)

Area notified under the Wildlife and Countryside Act, 1981, by English Nature, the Countryside Council for Wales or Scottish Heritage as being of special interest for nature conservation. Consultation and some form of agreement with the national statutory conservation agency is mandatory before any listed, potentially damaging development, change in land use, etc. can be carried out. SSSI notification forms the statutory bedrock for site protection, although experience has shown that even SSSIs are not sacrosanct.

Biological SSSIs form a national network of wildlife sites in which each site is a distinct discrete link. Sites are selected in such a way that the protection of each site, and hence the network, aims to conserve the minimum area of wildlife habitat necessary to maintain the natural diversity and distribution of Britain's native flora and fauna and the communities they comprise. Each site, therefore, is of national significance for its nature conservation value. The vast majority of SSSIs, and indeed most areas of semi-natural habitat, cannot be created within human time scales and are therefore considered irreplaceable.

Geological SSSIs—more correctly termed Earth Science SSSIs—are the best sites chosen for their research value, the criterion being that they are of national or international importance. Earth Science conservation is concerned with the maintenance of our geological and geomorphological heritage.

National Nature Reserve (NNR)

Statutory reserve established for the nation under the Wildlife and Countryside Act, 1981. NNRs may be owned by a relevant national body (e.g. English Nature in England) or by established agreement; a few are owned and managed by non-statutory bodies. NNRs cover a selection of the most important sites for nature conservation in the UK.

Special Area of Conservation (SAC) and Special Protection Area (SPA)

SACs and SPAs are areas designated under European law and are the most important sites for wildlife in the UK. SACs are designated under the European Habitats Directive (Council Directive 92/43/EEC) and SPAs under the European Birds Directive (Council Directive 79/409/EEC). Both the Habitats and Birds Directive provide for the creation of a network of protected wildlife areas across the EU, to be known as "Natura 2000". The designations aim to conserve important or threatened species and habitats and provide them with increased protection and management.

Ramsar sites

Ramsar sites are wetlands of international importance designated under the Ramsar Convention. The initial emphasis was on selecting sites of importance to waterbirds within the UK, and consequently many Ramsar sites are also Special Protection Areas (SPAs) classified under the Birds Directive. Non-bird features are now increasingly taken into account, both in the selection of new sites and when reviewing existing sites.



SINC Designations

Sites of Importance for Nature Conservation

1 The different kinds of sites and areas

1.1 There are three kinds of site, which are chosen on the basis of their importance to a particular defined geographic area. This use of search areas is an attempt, not only to protect the best sites in London, but also to provide each part of London with a nearby site, so that people are able to have access to enjoy nature.

Sites of Metropolitan Importance

- 1.2 Sites of Metropolitan Importance for Nature Conservation are those sites which contain the best examples of London's habitats, sites which contain particularly rare species, rare assemblages of species or important populations of species, or sites which are of particular significance within otherwise heavily built-up areas of London.
- 1.3 They are of the highest priority for protection. The identification and protection of Metropolitan Sites is necessary, not only to support a significant proportion of London's wildlife, but also to provide opportunities for people to have contact with the natural environment.
 - 1.3.1 The best examples of London's habitats include the main variants of each major habitat type, for example hornbeam woodland, wet heathland, or chalk downland. Habitats typical of urban areas are also included, e.g. various types of abandoned land colonised by nature ('wasteland' or 'unofficial countryside'). Those habitats which are particularly rare in London may have all or most of their examples selected as Metropolitan Sites.
 - 1.3.2 Sites of Metropolitan Importance include not only the best examples of each habitat type, but also areas which are outstanding because of their assemblage of habitats, for example the Crane corridor, which contains the River Crane, reservoirs, pasture, woodland and heathland.
 - 1.3.3 Rare species include those that are nationally scarce or rare (including Red Data Book species) and species which are rare in London.
 - 1.3.4 A small number of sites are selected which are of particular significance within heavily built up areas of London. Although these are of lesser intrinsic quality than those sites selected as the best examples of habitats on a London-wide basis they are outstanding oases and provide the opportunity for enjoyment of nature in extensive built environments. Examples include St James's Park, Nunhead Cemetery, Camley Street Natural Park and Sydenham Hill Woods. In some cases (e.g. inner London parks) this is the primary reason for their selection. For sites of higher intrinsic interest it may only be a contributory factor. Only those sites that provide a significant contribution to the ecology of an area are identified.
 - 1.3.5 A small number of sites are selected which are of particular significance within heavily built up areas of London. Although these are of lesser intrinsic quality than those sites selected as the best examples of habitats on a Londonwide basis they are outstanding oases and provide the opportunity for enjoyment of nature in extensive built environments. Examples include St James's Park, Nunhead Cemetery, Camley Street Natural Park and Sydenham Hill Woods. In some cases (e.g. inner London parks) this is the primary reason for their selection. For sites of higher intrinsic interest it may

only be a contributory factor. Only those sites that provide a significant contribution to the ecology of an area are identified.

1.4 Should one of these sites be lost or damaged, something would be lost which exists in a very few other places in London. Management of these sites should as a first priority seek to maintain and enhance their interest, but use by the public for education and passive recreation should be encouraged unless these are inconsistent with nature conservation.

Sites of Borough Importance

- 1.5 These are sites which are important on a borough perspective in the same way as the Metropolitan sites are important to the whole of London. Although sites of similar quality may be found elsewhere in London, damage to these sites would mean a significant loss to the borough. As with Metropolitan sites, while protection is important, management of Borough sites should usually allow and encourage their enjoyment by people and their use for education.
- 1.6 In defining Sites of Borough Importance, the search is not confined rigidly to borough boundaries; these are used for convenience of defining areas substantially smaller than the whole of Greater London, and the needs of neighbouring boroughs should be taken into account. In the same way as for Sites of Metropolitan Importance, parts of some boroughs are more heavily built-up and some borough sites are chosen there as oases providing the opportunity for enjoyment of nature in extensive built environments.
- 1.7 Planning Policy Statement on Biodiversity and Geological Conservation (2005), in paragraph 5 (i), states that local development frameworks should indicate the location of designate sites for biodiversity and geodiversity, including locally designated sites...
- 1.8 Since essentially a comparison within a given borough is made when choosing Sites of Borough Importance, there is considerable variation in quality between those for different boroughs; for example, those designated in Barnet will frequently be of higher intrinsic quality than those in Hammersmith and Fulham, a borough comparatively deficient in wildlife habitat. Only those sites that provide a significant contribution to the ecology of an area are identified.

Sites of Local Importance

- 1.9 A Site of Local Importance is one which is, or may be, of particular value to people nearby (such as residents or schools). These sites may already be used for nature study or be run by management committees mainly composed of local people. Where a Site of Metropolitan or Borough Importance may be so enjoyed it acts as a Local site, but further sites are given this designation in recognition of their role. This local importance means that these sites are also deserving protection in planning.
- 1.12 Local sites are particularly important in areas otherwise deficient in nearby wildlife sites. To aid the choice of these further local sites, Areas of Deficiency (see below) are identified. Further Local sites are chosen as the best available to alleviate this deficiency; such sites need not lie in the Area of Deficiency, but should be as near to it as possible. Where no such sites are available, opportunities should be taken to provide them by habitat enhancement or creation, by negotiating access and management agreements, or by direct acquisition. Only those sites that provide a significant contribution to the ecology of an area are identified.

Areas of Deficiency

Areas of Deficiency are defined as built-up areas more than one kilometre actual walking distance from an accessible Metropolitan or Borough site. These aid the choice of Sites of Local Importance (see above).



Geological Designations

Regionally Important Geological/geomorphological Sites (RIGS) and Locally Important Geological Sites (LIGS)

Government guidance uses the term *Local Sites* for non-statutory geological sites, as distinct from the Sites of Special Scientific Interest [SSSIs] which are protected by government statute.

- In England they are often called *Local Geological Sites*.
- In Scotland they are often called *Local Geodiversity Sites*.
- In Wales they are called Regionally Important Geodiversity Sites.

<u>NOTE:</u> The term *Regionally Important Geological/geomorphological Sites (RIGS)*, which has been in usage now for many years and is still used to describe Local Geological/geodiversity Sites, should be regarded as synonymous to Local Geological Sites. In London, the term RIGS has been retained to cover those sites that are worthy of protection for their geodiversity importance at the London-wide level.

RIGS were established in 1990 by the Nature Conservancy Council (NCC) (predecessor of English Nature and Natural England). They have support from Natural England and other national agencies, and are increasingly recognised by local planning authorities. To date RIG Sites have been selected by voluntary groups, Local geoconservation groups (lately known as RIGS groups), which are generally formed by county or by unitary authority area in England. There are more than 50 local groups in the UK, though not all are active. There are 3 active groups in London, South London RIGS, North West London RIGS and GeoEssex, but to date no RIGS have been formally designated in Greater London.

RIGS are currently the most important designated places for geology and geomorphology outside statutorily protected land such as SSSIs. The designation of RIGS is one way of recognising and protecting important geodiversity and landscape features for future generations to enjoy. RIGS are equivalent to local Wildlife Sites and other non-statutory wildlife designations. They can be listed in local authorities' development plans and shown on "alert maps". RIGS can be protected through the planning system if a RIGS group recommends sites to the local planning authority.

Guidance on RIGS is available on the GeoconservationUK website

(www.geoconservationuk.org.uk). They are important as an educational, historical and recreational resource. Sites are selected according to:

- the value for educational purposes in life-long learning
- the value for study both by professional and amateur earth scientists
- the historical value in terms of important advances in Earth science knowledge, events or human exploitation
- the aesthetic value in the landscape, particularly in relation to promoting public awareness and appreciation of geodiversity.

RIGS can be viewed as equivalent to Sites of Metropolitan Importance for Nature Conservation (SMIs), which include land of strategic importance for nature conservation and biodiversity across London. They are proposed by the Boroughs in Development plan documents and are confirmed if there is no objection from the Mayor to the proposal. These sites should be protected as set out in Policy 3D.16 of the London Plan.

The London boroughs may also designate certain areas as being of local conservation (including geological) interest (LIGS). The criteria for inclusion, and the level of protection provided, should reflect the local level of importance in the hierarchy of sites.

LIGS are equivalent to Sites of Borough or Local Importance for nature conservation, which are accorded a level of protection commensurate with their borough or local significance. Local site



networks provide a comprehensive rather than a representative suite of sites. Defra have published detailed guidance on identification, selection and management of local sites (DEFRA, 2006).

LIGS are designated in the Development Plan Documents prepared under the Town and Country Planning system by the London boroughs and are a material consideration when planning applications are being determined.

The London Plan Implementation Report *London's foundations* (March 2009) describes the geodiversity audit of 36 sites (including the 7 London SSSIs designated for their geodiversity importance). 14 sites were recommended for designation as RIGS and 15 as LIGS. Since publication of *London's foundations*, the London Geodiversity Partnership has published the London Geodiversity Action Plan, which includes a programme of inspection and audit of these sites and other potential sites (98 listed in *London's foundations*) to manage and conserve London's geodiversity.



Species Protections

GiGL has used the conservations designations list created and maintained by the Joint Nature Conservation Committee (JNCC) and used the following designations in the data search report.

| International Legislation | |
|---|---|
| Birds Directive Annex 1 | Birds which are the subject of special conservation measures concerning their habitat in order to ensure their survival and reproduction in their area of distribution. As appropriate, Special Protection Areas to be established to assist conservation measures. Note that the contents of this annex have been updated in April 2003 following the Treaty of Accession. |
| Habitats Directive Annex 2 - priority species | Species which are endangered, the conservation of which the Community has a particular responsibility in view of the proportion of their natural range which falls within the territory of the Community. They require the designation of special areas of conservation. |
| Habitats Directive Annex 2 - non-priority species | Animal and plant species of Community interest (i.e. endangered, vulnerable, rare or endemic in the European Community) whose conservation requires the designation of special areas of conservation. Note that the contents of this annex have been updated in April 2003 following the Treaty of Accession. |
| Habitats Directive Annex 4 | Animal and plant species of Community interest (i.e. endangered, vulnerable, rare or endemic in the European Community) in need of strict protection. They are protected from killing, disturbance or the destruction of them or their habitat. Note that the contents of this annex have been updated in April 2003 following the Treaty of Accession. |
| National Legislation | |
| The Conservation (Natural Habitats, &c.) Regulations 2010 (Schedule 2) | Schedule 2- European protected species of animals. |
| The Conservation (Natural Habitats, &c.) Regulations 2010 (Schedule 5) | Schedule 5- European protected species of plants. |
| Natural Environment and Rural Communities Act 2006 - Species of Principal Importance in England | Species "of principal importance for the purpose of conserving biodiversity" covered under section 41 (England) of the NERC Act (2006) and therefore need to be taken into consideration by a public body when performing any of its functions with a |
| | view to conserving biodiversity. |
| Wildlife and Countryside Act 1981 (Schedule 1 Part 1) | view to conserving biodiversity. Birds which are protected by special penalties at all times. |
| 1981 (Schedule 1 Part 1) Wildlife and Countryside Act 1981 (Schedule 5 Section 9.1 (killing/injuring)) | |
| 1981 (Schedule 1 Part 1) Wildlife and Countryside Act 1981 (Schedule 5 Section 9.1 | Birds which are protected by special penalties at all times. |
| 1981 (Schedule 1 Part 1) Wildlife and Countryside Act 1981 (Schedule 5 Section 9.1 (killing/injuring)) Wildlife and Countryside Act 1981 (Schedule 5 Section 9.1 | Birds which are protected by special penalties at all times. Animals which are protected from intentional killing or injuring. |

International and national legislation



| 9.4b) | shelter or protection. |
|---|---|
| Wildlife and Countryside Act 1981 (Schedule 5) | Cetacean/basking shark that are not allowed to be intentionally or recklessly disturbed. |
| Wildlife and Countryside Act 1981 (Schedule 8) | Plants which are protected from intentional picking, uprooting or destruction (Section 13 1a); selling, offering for sale, possessing or transporting for the purpose of sale (live or dead, part or derivative) (Section 13 2a); advertising (any of these) for buying or selling (Section 13 2b). |
| Protection of Badgers Act (1992) | The Protection of Badgers Act 1992 protects badgers from taking, injuring, killing, cruel treatment, selling, possessing, marking and having their setts interfered with, subject to exceptions. |

Notable and other species designations

| Red Data List | |
|--|---|
| Bird Population Status - red | Red list species are those that are Globally Threatened according to IUCN criteria; those whose population or range has declined rapidly in recent years; and those that have declined historically and not shown a substantial recent recovery. |
| IUCN (2001) - Critically endangered | A taxon is Critically Endangered when the best available evidence indicates that it meets any of the criteria A to E for Critically Endangered (see Section V), and it is therefore considered to be facing an extremely high risk of extinction in the wild. |
| IUCN (2001) - Data Deficient | A taxon is Data Deficient when there is inadequate information to make a direct, or indirect, assessment of its risk of extinction based on its distribution and/or population status. A taxon in this category may be well studied, and its biology well known, but appropriate data on abundance and/or distribution are lacking. Data Deficient is therefore not a category of threat. Listing of taxa in this category indicates that more information is required and acknowledges the possibility that future research will show that threatened classification is appropriate. It is important to make positive use of whatever data are available. In many cases great care should be exercised in choosing between DD and a threatened status. If the range of a taxon is suspected to be relatively circumscribed, and a considerable period of time has elapsed since the last record of the taxon, threatened status may well be justified. |
| IUCN (2001) - Endangered | A taxon is Endangered when the best available evidence indicates that it meets any of the criteria A to E for Endangered (see Section V), and it is therefore considered to be facing a very high risk of extinction in the wild. |
| IUCN (2001) - Extinct | A taxon is Extinct when there is no reasonable doubt that the last individual has died. A taxon is presumed Extinct when exhaustive surveys in known and/or expected habitat, at appropriate times (diurnal, seasonal, annual), throughout its historic range have failed to record an individual. Surveys should be over a time frame appropriate to the taxon's life cycle and life form. |
| IUCN (2001) - Extinct in the wild | A taxon is Extinct in the wild in Great Britain when it is known to survive only in cultivation, in captivity or as a naturalised population (or populations) well outside the past range. A taxon is presumed extinct in the wild when exhaustive surveys in known and/or expected habitat, at appropriate times (diurnal, seasonal, annual) throughout its range have failed to |



| | record on individual. Surveys should be over a time frame |
|---|--|
| | record an individual. Surveys should be over a time frame appropriate to the taxon's life cycle and life form. |
| IUCN (2001) - Regionally Extinct | Category for a taxon when there is no reasonable doubt that the last individual potentially capable of reproduction within the region has died or has disappeared from the wild in the region, or when, if it is a former visiting taxon, the last individual has died or disappeared in the wild from the region. The setting of any time limit for listing under RE is left to the discretion of the regional Red List authority, but should not normally pre-date 1500 AD. |
| IUCN (2001) - Lower risk - near threatened | A taxon is Near Threatened when it has been evaluated against the criteria but does not qualify for Critically Endangered, Endangered or Vulnerable now, but is close to qualifying for or is likely to qualify for a threatened category in the near future. |
| IUCN (2001) - Vulnerable | A taxon is Vulnerable when the best available evidence indicates that it meets any of the criteria A to E for Vulnerable (see Section V), and it is therefore considered to be facing a high risk of extinction in the wild. |
| Other rare/scarce | |
| Nationally rare marine species | Species which occur in eight or fewer 10km X 10km grid squares containing sea (or water of marine saline influence) within the three mile territorial limit. |
| Nationally rare | Occurring in 15 or fewer hectads in Great Britain. Excludes rare species qualifying under the main IUCN criteria. |
| Nationally scarce marine species | Species which occur in nine to 55 10km X 10km grid squares containing sea (or water of marine saline influence) within the three mile territorial limit. |
| Nationally Notable A | Taxa which do not fall within RDB categories but which are none-the-less uncommon in Great Britain and thought to occur in 30 or fewer 10km squares of the National Grid or, for less well-recorded groups, within seven or fewer vice-counties. Superseded by Nationally Scarce, and therefore no longer in use. |
| Nationally Notable B | Taxa which do not fall within RDB categories but which are none-the-less uncommon in Great Britain and thought to occur in between 31 and 100 10km squares of the National Grid or, for less-well recorded groups between eight and twenty vice- counties. Superseded by Nationally Scarce, and therefore no longer in use. |
| Nationally scarce | Occurring in 16-100 hectads in Great Britain. |
| Nationally Notable | Species which are estimated to occur within the range of 16 to 100 10km squares. (subdivision into Notable A and Notable B is not always possible because there may be insufficient information available). Superseded by Nationally Scarce, and therefore no longer in use. |
| UK BAP | |
| UK Biodiversity Action Plan priority species | The UK List of Priority Species and Habitats contains 1150 species and 65 habitats that have been listed as priorities for conservation action under the UK Biodiversity Action Plan (UK BAP). |
| Local List | |
| London Species of Conservation Concern | London Biodiversity Partnership listed some 300 species of conservation interest occurring in London. |
| London BAP Priority species | See below. |



London Biodiversity Action Plan Species

Rationale for selecting priority species for action

1. Background

The *Greater London Authority Act 1999* requires the elected Mayor to produce a Spatial Development Strategy for London, called the London Plan. The London Plan is the overall strategic plan for London, and it sets out a fully integrated economic, environmental, transport and social framework for the development of the capital to 2031. It forms part of the development plan for Greater London. London boroughs' local plans need to be in general conformity with the London Plan, and its policies guide decisions on planning applications by councils and the Mayor. From 22 July 2011 this replaces the London Plan (consolidated with alterations since 2004 which was published in February 2008.

The London Plan includes an important policy (7.19) Biodiversity and Access to Nature, which links to policies and proposals on approaches to strategic planning in the Mayor's Biodiversity Strategy¹. Policy 7.19 contains the following statement;

The Mayor's Biodiversity Strategy² sets out criteria and procedures for identifying land of importance for London's biodiversity for protection in LDFs and identifying areas of deficiency in access to nature. Protecting the sites at all levels, serves to protect the significant areas of Biodiversity Action Plan (BAP) priority habitat in London and most priority species. However, protection of biodiversity outside designated sites will also be needed. The Mayor and the London Biodiversity Partnership have identified targets in Table 7.3 for the re-creation and restoration of priority habitats, as recommended in PPS 9: Biodiversity and Geological Conservation³.

This policy is employed by the Mayor of London when considering those larger planning applications referred to him for direction under the *Town and Country Planning (Mayor of London) Order 2000.* Also the London Unitary Development Plans and, increasingly with time, the new Local Development Frameworks of the London Boroughs have to be in general conformity with the London Plan. It is through these local policies that most protection of priority species will occur. The planning protection for priority species should be equivalent to that applying to statutory protected species, although of course development planning can only provide protection from planning-related activities.

The London Biodiversity Partnership (LBP) published its original Audit of habitats and species in 2000. This lists all habitats of interest in London, as these relate to the UK BAP. The Audit also lists some 300 species of conservation interest occurring in London. All of these could not practically be considered as priorities for conservation action in the London BAP. Importantly, the LBP has adopted a practical approach to species conservation, whereby action for species should be considered and incorporated within the action proposed for their relevant habitats whenever possible. Species Action Plans have been produced only for prioritised species that are not so conveniently habitat-specific.

³ ODPM PPS9. Biodiversity and geological conservation. 2005



¹Connecting with London's nature, The Mayor's Biodiversity Strategy, GLA July 2002 ² Mayor of London. The Mayor's Biodiversity Strategy- connecting with Nature. GLA 2005 ³ ODM RDS0. Biodiversity and people inclusion connection, 2005

2. The evaluation process

2.2 Priority Species in London

From the list of Species of Conservation Concern in Greater London, our Priority BAP Species have been identified.

Criteria for selection of UK BAP Priority Species are as follows;

- Species that are globally threatened;
- Species that are rapidly declining in the UK, ie. by more than 50% in the last 25 years.

In accordance with national guidance, London BAP Priority Species must include;

• All UK BAP Priority Species with native or long-established naturalised populations in Greater London.

Further species have been selected using the following criteria;

- Species for which Species Action Plans are currently being implemented in the London BAP;
- Nationally threatened (Red Data listed) species with native or long-established naturalised populations in Greater London;
- UK SCC and declining Nationally Scarce species with significant⁴ native or longestablished naturalised populations within Greater London, (ie. for which a regional responsibility for conservation may be clearly demonstrated).
- Species with native or long-established naturalised populations that are known to have undergone a recent significant decline in Greater London, or for which Greater London holds the majority of the known UK population.

⁴ for example: the only population within its 10km grid square; a population at the edge of a declining <u>species' UK range; a constituent of an isolated UK population; an exceptionally strong core area population</u>



Confidential Records

GiGL holds some species records that are confidential. The fundamental principle is of making available all records, no matter how sensitive, with the appropriate interpretation. However, access to records will be restricted where general availability could pose a real threat to species or habitats, or would compromise the supply of data.

Data supplied in the search reports will be included at the resolution defined either by GiGL Records Advisory Group and / or by the data owner/originator.

The following is the list of species and groups that are treated as confidential.

| Common Name | Scientific Name | Additional comments | |
|---------------------------|-------------------------------|-------------------------------|--|
| Badger | Meles meles | All records | |
| Adder | Vipera berus | All records | |
| Garganey | Anas querquedula | Records from April -July only | |
| Pochard | Aythya ferina | Records from April -July only | |
| Quail | Coturnix coturnix | All records | |
| Red-necked Grebe | Podiceps grisegena | Records from April -July only | |
| Black-necked Grebe | Podiceps nigricollis | Records from April -July only | |
| Little Egret | Egretta garzetta | Records from April -July only | |
| Honey Buzzard | Pernis apivorus | Records from April -July only | |
| Red Kite | Milvus milvus | Records from April -July only | |
| Marsh Harrier | Circus aeruginosus | Records from April -July only | |
| Goshawk | Accipiter gentilis | All records | |
| Common Buzzard | Buteo buteo | Records from April -July only | |
| Hobby | Falco subbuteo | All records | |
| Peregrine Falcon | Falco peregrinus | All records | |
| Avocet | Recurvirostra avosetta | Records from April -July only | |
| Little Ringed Plover | Charadrius dubius | Records from April -July only | |
| Ruff | Philomachus pugnax | Records from April -July only | |
| Common Snipe | Gallinago gallinago | Records from April -July only | |
| Turtle Dove | Streptopelia turtur | Records from April -July only | |
| Barn Owl | Tyto alba | All records | |
| Long-eared Owl | Asio otus | All records | |
| Short-eared Owl | Asio flammeus | Records from April -July only | |
| Nightjar | Caprimulgus europaeus | All records | |
| Woodlark | Lullula arborea | All records | |
| Tree Pipit | Anthus trivalis | Records from April-July only | |
| Black Redstart | Phoenicurus ochruros | Records from April -July only | |
| Cetti's Warbler | Cettia cetti | All records | |
| Marsh Warbler | Acrocephalus palustris | All records | |
| Dartford Warbler | Sylvia undata | All records | |
| Firecrest | Regulus ignicapilla | Records from April -July only | |
| Bearded Tit | Panurus biarmicus | All records | |
| Willow Tit | Poecile montanus | All records | |
| Marsh Tit | Poecile palustris | Records from April -July only | |
| Golden Oriole | Oriolus oriolus | All records | |
| Hawfinch | Coccothraustes coccothraustes | All records | |
| Corn Bunting | Miliaria calandra | All records | |
| Lesser-spotted Woodpecker | Dendrocopus minor | Records from April -July only | |
| Lizard orchid | Himantoglossum hircinum | All records | |
| Cannabis | Cannabis sativa | All records | |

London Invasive Species Initiative overview

The London Invasive Species Initiative (LISI)

The London Invasive Species Initiative encourages better co-ordination and partnership working to prevent, reduce and eliminate the impacts caused by invasive non-native species across the city. It is a sub-group of the London Biodiversity Partnership and has a wide membership, spanning several sectors and organisations.

LISI sub-group

Invasive non-native species are widely recognised as a major threat to biodiversity, second only to habitat loss. They can also have serious economic impacts and impacts on social, health and amenity resources.

Following on from the creation of the GB Non-Native Species Co-ordinating Mechanism, DEFRA published the 'Invasive Non-native species framework strategy for GB' in 2008. Parallel to this, a number of regional initiatives have been set up across the country which helps implement the various policy documents at a regional and sub-regional level. As such, a London Invasive Species Initiative has been formed to work within this context.

There are many species present in London, most of the non-native species do not pose a threat to biodiversity and add to the individuality and richness of London's wildlife and heritage. However, there are some invasive non-native species which are a cause for concern, some of which are already threatening the value of London's natural environment. Uniquely, the highly urbanised nature of London and the anticipated impacts of climate change are likely to exacerbate the effects of invasive non-native species. Finally, London is an international city and has a higher risk of new non-native species appearing and becoming invasive than some other areas.

The presence of a LISI species on or near a site has the following implications:

- The presence of an invasive species may threaten the ecological value of a site and cause additional socio-economic impacts.
- There is a statutory requirement under the Wildlife and Countryside Act 1981 to ensure that non-native species are not introduced or spread in the wild. Species listed in Schedule 9 of the act are known to be established in the wild and care should be taken to ensure that where present, these are not spread through site activities.
- In addition to establishing appropriate biosecurity measures, management may be required to eradicate, control or mitigate the species.

The LISI group was set up as a sub-group of the London Biodiversity Partnership in late 2009 and has since worked on prioritising species for London, providing advice, raising awareness and co-ordinating action on the ground.

Group membership is open to all interested organisations with an interest in invasive non-native species, particularly those seeking to work in partnership to tackle the problems caused by them. The Environment Agency currently chairs the group.

Joining the LISI group will enable:

- A more efficient and co-ordinated approach to tackling invasive non-native species, including practical action on the ground.
- A more co-ordinated approach will enable organisations to have up to date data on distribution and spread of invasive non-native species as well as work more closely with local groups and organisations to tackle these issues. This will lead to a reduction in resources spent in some locations in the long term.
- Habitat and environmental enhancements.



• Partnership work.

The group's objectives

The LISI objectives mirror the Convention for Biological Diversity's "guiding principles of prevention, detection/surveillance and control/eradication of invasive species" and cover the following points:

- Collating and monitoring data on the distribution and spread of invasive species in London.
- Developing action plans to address the species of most urgent concern.
- Facilitating control and eradication projects for high priority species.
- Providing a link between research and practitioners (to help to support the evidence base for invasive species impacts and/or control measures).
- Act as an early warning system for new and emerging invasive species.
- Promoting awareness of the risks and impacts associated with invasive species.

LISI species of concern

A list of invasive non-native species of concern for London has been drawn up using several sources of information: Schedule 9 of the Wildlife and Countryside Act 1981, The UK Water Framework Directive Technical Advisory Group's invasive species list and local knowledge. The resulting list presents a number of species either present in London and causing impacts for which action, monitoring or research is needed. The highest priority for London is also the prevention of new species arriving, particularly those for which national alerts are in place through the GB Non-Native Species Secretariat.

Each species has been assigned a category for action as follows:

- 1. Species not currently present in London but present nearby or of concern because of the high risk of negative impacts should they arrive. Should any species listed in this category appear in London, this should be reported to GIGL or LISI to ensure that action is taken rapidly.
- 2. Species of high impact or concern present at specific sites that require attention (control, management, eradication etc). Such species are priority species for action in London and LISI encourages this wherever possible.
- 3. Species of high impact or concern which are widespread in London and require concerted, coordinated and extensive action to control/eradicate. These species are species currently causing large scale impacts across London and LISI supports area or catchment wide partnership working to ensure this.
- 4. Species which are widespread for which eradication is not feasible but where avoiding spread to other sites may be required. Appropriate biosecurity is required for sites where these species are found.
- 5. Species for which insufficient data or evidence was available from those present to be able to prioritise.
- 6. Species that were not currently considered to pose a threat or have the potential to cause problems in London.

Further information:

For further information relating to LISI please contact - enquiries@londonisi.org.uk

For further guidance on invasive non-native species, including management guidance and advice, please see the GB Non-Native Species Secretariat: https://secure.fera.defra.gov.uk/nonnativespecies/home/index.cfm



Habitat Classifications

The habitat data includes the most recent habitat survey information for a given area. The data includes information collected using different habitat surveying methodologies.

GLA habitat surveys

The GLA conducted a series of rolling habitat surveys between the mid-1980s and 2009. It used the habitat typologies developed specifically for Greater London.

1 Survey information

1.1 In order to choose sites for protection it is necessary to have good survey information on the habitats and species of all candidate areas.

The London Wildlife Habitat Survey

- 1.2 Information on wildlife habitats can be collected in a standardised, comprehensive survey. We are fortunate in London in having such a survey, first carried out by the London Wildlife Trust for the Greater London Council in 1984/85, and updated and extended in various surveys since, including re-examination of sites to be described in the handbook series or in relation to proposed developments or management. In a number of London boroughs a systematic survey has been carried out using the London Ecology Unit's specification since 1985. The specification was updated in 2000, when the GLA was established, to collect additional data required for open space planning. The format of the survey is similar to those usually described as 'Phase I' or 'Field by Field', but is enhanced by the extensive use of standardised written notes. The Authority holds this survey information.
- 1.3 The initial survey documented areas with semi-natural habitats (more natural than wellgardened allotments or heavily mown urban playing fields) and was also confined to large areas (above 0.5 ha for inner boroughs and 1 ha for outer boroughs). Much subsequent survey work has documented open spaces regardless of their natural quality and has used a much lower area threshold, to provide a more comprehensive coverage.
- 1.4 The wildlife habitat survey helps to ensure that candidate sites are not overlooked and that the same essential minimum of information is available for each. There is usually little other information available on the quality of the wildlife habitats, but any information provided is taken into account.

Information on species

- 1.5 Information on species, which has been obtained in a consistent and standardised manner as part of the systematic survey of habitats may be used by the Authority in reaching decisions on site quality. Other information on species, relating to individual sites, is frequently available but has rarely been collected in a systematic way so as to allow straightforward comparisons with other sites.
- 1.6 Information on species is often available from local naturalists, who are able to observe sites throughout seasons and years to provide an accurate and quite comprehensive listing of these and who may publish accounts of particular species or sites. Valuable though this information is, it often proves difficult to use it to compare candidate sites, as the recording effort put into each site may differ greatly and so may the completeness of the list. The length of the species list and the detection of rare species therefore depends upon the searching effort. For these reasons, such information on



species is used only together with knowledge of how the information was obtained and of the way in which the ecology of individual species affects their apparent status.

1.7 The policy of the Authority is to take considerable care in interpreting site-based species data to ensure that fully professional standards are maintained.

Habitat Types

A list of habitats for open space survey in London

| Code | Name | Definition |
|--------------|---------------------------------------|--|
| 01/02 /03 | Woodland | Stands of trees forming at least 75% cover, including coppice and trees of shrub size, but excluding fen carr (19). Includes stands of willow except <i>Salix cinerea, caprea</i> and <i>viminalis</i> , but excludes hawthorn, hazel (except hazel coppice with standards), elder, juniper and the three willow species listed above, which are always scrub (06) regardless of height. Where the species composition does not fulfil any of 01, 02 or 03 below, code as a mixture. Always record % shrub layer under the qualifiers. |
| 01 | Native broadleaved woodland | Woodland (see above) with native broadleaved species (i.e. excluding sycamore and sweet chestnut) comprising at least 75% of the canopy. |
| 02 | Non-native broadleaved woodland | Woodland (see above) with non-native broadleaved species (including sycamore and sweet chestnut) comprising 75% of the canopy. |
| 03 | Coniferous woodland | Woodland (see above) with coniferous species (including yew) comprising 75% of the canopy. |
| 37 | Scattered trees | Trees forming less than 75% canopy cover over another habitat (excluding coppice with standards, which is coded as woodland). Record percentage tree cover here, and the rest of the area under the appropriate habitat. |
| 05 | Recently felled woodland | Does not include coppice, which is coded as woodland. |
| 06 | Scrub | Dominated (at least 75% cover) by shrubs (usually less than 5 metres tall), excluding fen carr (19), heathland (15), young woodland, coppice, hedges (25, 34) and planted shrubberies (38). Includes stands of hawthorn, hazel (except coppice with standards), elder and <i>Salix cinerea, caprea</i> and <i>viminalis</i> regardless of height. |
| 38 | Planted shrubbery | Dominated (at least 75% cover) by shrubs, usually non-native species, the majority of which have clearly been planted. Excludes hedges (25, 34). |
| 25 | Native hedge | Line of shrubs, with or without treeline, one or two mature shrubs wide (wider belts should be coded as scrub or woodland), with native species comprising at least 75% of the shrubs. |
| 34 | Non-native hedge | As above but with non-native species comprising at least 75% of the shrubs. If neither 25 nor 34 apply, code as a mixture. |
| 31 | Orchard | Planted fruit or nut trees forming at least 50% canopy cover. |
| 36 | Vegetated | Includes ruins, fences and other artificial structures with an appreciable |

| <u>Code</u> | <u>Name</u> | Definition | |
|-------------|---|---|--|
| | walls, tombstones. etc | amount of vegetation (including mosses and lichens) but excluding artificial water margins, which should be coded as wet marginal vegetation (18) if vegetated. | |
| 26 | Bare soil and rock | Includes active quarries, fresh road workings, spoil or tipping and earth banks of water habitats, where these are minimally vegetated. Excludes arable land (28). | |
| 27 | Bare artificial habitat | Includes tarmac, concrete, railway ballast, gravel paths, buildings and artificial margins to aquatic habitats, where these are minimally vegetated. | |
| 08 | Acid grassland | Un- or semi-improved grassland on acidic soils, with less than 25% cover of heather or dwarf gorse. Excludes reedswamp (17). Usually with one or more of <i>Deschampsia flexuosa, Molinia caerulea, Nardus stricta, Juncus squarrosus, Galium saxatile, Potentilla erecta</i> or <i>Rumex acetosella</i> in abundance. | |
| 09 | Neutral grassland (semi- improved) | Mesotrophic grassland usually with one or more of Arrhenatherum elatius, Deschampsia cespitosa, Alopecurus pratensis, Cynosurus cristatus, Dactylis glomerata, Festuca arundinacea or F.pratensis. Contains more than just Lolium perenne, Trifolium repens, Rumex acetosa, Taraxacum, Bellis perennis and Ranunculus species (see 07 and 11), but lacks the characteristic forbs of 35. Excludes reedswamp (17). | |
| 35 | Neutral grassland (herb-rich) | Mesotrophic grassland with more forbs typical of old grassland than 09. Likely to contain one or more of <i>Primula veris, Lychnis flos-cuculi,</i> <i>Achillea ptarmica, Silaum silaus, Succisa pratensis, Stachys officinalis,</i> <i>Serratula tinctoria, Ophioglussum, Gensita tinctoria, Sanguisorba</i> <i>officinalis or Caltha palustris, or an abundance of Carex ovalis,</i> <i>Pimpinella saxifraga, Conopodium majus, Cardamine pratensis, Knautia</i> <i>or Filipendula ulmaria.</i> | |
| 10 | Basic grassland | Un- or semi-improved grassland containing calcicoles. Usually with some of <i>Brachypodium pinnatum, Bromopsis erecta, Heliotrichon pratense, Thymus polytrichus, Sanguisorba minor, Centaurea scabiosa</i> or <i>Origanum vulgare</i> in some abundance. | |
| 11 | Improved or re-seeded agricultural grassland | Species-poor mesotrophic grassland containing little but <i>Lolium perenne, Trifolium repens, Agrostis</i> species, <i>Bellis perennis, Taraxacum</i> and <i>Ranunculus</i> species. Distinguished from 07 by its agricultural use and hence usually less frequent mowing. | |
| 07 | Amenity grassland | Usually frequently mown, species-poor mesotrophic grassland characteristic of parks and sports pitches, containing similar species to 11. Scattered trees and shrubberies in parks should be coded separately. | |
| 12 | Ruderal or ephemeral | Communities composed of pioneer species such as occur in early succession of heavily modified substrates. Typical species include Senecio squalidus, S.vulgaris, Sinapis arvensis, Poa annua, Hirschfeldia incana and species of Polygonum, Persicaria, Melilotus, Atriplex, Chenopodium, Medicago, Vulpia, Picris, Lactuca, Diplotaxis, Conyza and Reseda. | |
| 13 | Bracken | Stands where bracken is dominant. Also used with other habitat codes to indicate scattered bracken. | |



| Code | Name | Definition | |
|------|---|---|--|
| 14 | Tall herbs | Stands of tall non-grass herbaceous species, often rhizomatous perennials, such as <i>Fallopia japonica, Conium maculatum, Chamerion angustifolium, Anthriscus sylvestris, Urtica dioica, Epilobium hirsutum, Solidago canadensis</i> and species of <i>Aster</i> and <i>Heracleum</i> . Excludes herbaceous fen vegetation 32). | |
| 33 | Roughland | An intimate mix of semi-improved neutral grassland (09), tall herbs (14) and scrub (06). If these occur in large enough patches they should be coded separately. Usually the next successional stage after 12. | |
| 15 | Heathland | Dwarf-shrub cover greater than 25% of species such as heathers and <i>Ulex minor</i> , with less than 50% cover of <i>Sphagnum</i> . May include a large amount of acid grassland (06) in a close mosaic, but code as a mixture if grassland areas are large. | |
| 39 | Allotments (active) | Communal allotment gardens which are under cultivation. Code disused plots under other habitats as appropriate. | |
| 28 | Arable | Cropland, horticultural land (excluding allotments), freshly ploughed land and livestock paddocks stocked so heavily as to have little vegetation. | |
| 16 | Bog | Dominated by <i>Sphagnum</i> mosses (greater than 50% cover) with water table at or just below the surface. | |
| 17 | Reedswamp | Stands of <i>Phragmites australis</i> with at least 75% cover of reeds. Includes dry and tidal stands. | |
| 40 | Typha, etc swamp | Stands of <i>Glyceria maxima, Typha</i> species or <i>Phalaris arundinacea</i> where these species form at least 75% cover. | |
| 18 | Wet marginal vegetation | Emergent vegetation with a permanently high water table in strips less than five metres wide on the margins of water bodies. Contains species such as <i>Iris pseudacorus, Apium nodiflorum, Acorus calamus</i> and species of <i>Rorippa, Alisma</i> and <i>Juncus</i> . May include <i>Phragmites, Typha</i> and <i>Glyceria maxima</i> , but where these form single-species stands code as 17 or 40 respectively. Usually too small to map but must always be coded if present. | |
| 19 | Fen carr | Woodland or scrub over herbaceous vegetation with the water table above ground for most of the year. | |
| 20 | Standing water (includes canals) | Lakes, reservoirs, pools, wet gravel pits, ponds, canals, docks and brackish lagoons beyond the limit of swamp or wet marginal vegetation. Always code vegetated margins separately and note trophic status and whether saline or tidal. | |
| 21 | Ditches (water filled) | Distinguished from 20 and 22 by their (often agricultural) drainage role. Always code vegetated margins separately and note trophic status and whether saline or tidal. | |
| 22 | Running water | Rivers and streams. Always code vegetated margins separately and note trophic status and whether saline or tidal. | |
| 23 | Intertidal mud, sand, shingle, etc | Intertidal areas without significant vegetation of higher plants. Try to record the extent at low tide. | |
| 24 | Saltmarsh | Intertidal areas appreciably vegetated with higher plants, excluding reedswamp (17). | |

| <u>Code</u> | Name | Definition |
|-------------|---|--|
| 30 | Habitat information not available | Areas which cannot be observed due to restricted access, etc. |
| 29 | Other | To be avoided if possible. Must be specified if used. |
| 32 | Species-rich herbaceous fen | Stands of herbaceous vegetation where the water table is above ground for most of the year, with less than 75% dominance of <i>Phragmites,</i> <i>Typha, Glyceria</i> and <i>Phalaris arundinacea</i> . Distinguished by width from 18. So rare in London that it is not on the survey form; write in under "Other" if required. |

Other habitat classifications

For further information on the recognised habitat classification systems and survey methods that may be represented within the GiGL data, please visit the following links:

National Vegetation Classification (NVC) - http://jncc.defra.gov.uk/page-4259

The National Vegetation Classification (NVC) is one of the key common standards developed for the country nature conservation agencies. The original project aimed to produce a comprehensive classification and description of the plant communities of Britain, each systematically named and arranged and with standardised descriptions for each.

<u>Phase I and Extended Phase I Habitat Assessment - http://jncc.defra.gov.uk/page-4258</u> The Phase 1 Habitat Classification and associated field survey technique provide a standardised system to record semi-natural vegetation and other wildlife habitats. Each habitat type/feature is identified by way of a brief description of its defining features.

<u>Biodiversity Action Plan Broad Habitat classification - http://jncc.defra.gov.uk/page-4261</u> This classification was developed as part of the UK Biodiversity Action Plan. The Broad Habitats are the framework through which the Government is committed to meet its obligations for monitoring in the wider countryside.



Open Space Designations

Open Space: undeveloped land which has an amenity value, or has potential for an amenity value. The value could be visual, derive from a site's historical or cultural interest or from the enjoyment of facilities which it provides. It includes both public and private spaces, but excludes private gardens.

English Heritage Registered Parks and Gardens: The English Heritage 'Register of Historic Parks and Gardens of species historic interest in England', established 1983, currently identifies over 1,600 sites assessed to be of national importance. The emphasis of the Register is on 'designed' landscapes, rather than on planting or botanical importance. The majority of sites are, or started life as, the grounds of private houses, but public parks and cemeteries form important categories. Sites are divided into three grade bands to give added guidance on their significance.

- Grade I sites are of exceptional interest
- Grade II* sites are particularly important, or more than special interest
- Grade II sites are of special interest, warranting every effort to preserve them. More information at: www.english-heritage.org.uk

Green Flag Awards: The Green Flag Award Scheme recognises and rewards the best green spaces in the country. There are three different awards:

- Green Flag Award: The benchmark national standard for parks and green spaces in the UK>.
- Green Flag Community Award: Recognises high quality spaces in England and Wales managed by voluntary and community groups.
- Green Heritage Sites: Awarded to parks and green spaces with local or national historic importance.

London Square: These are spaces protected by the London Squares Preservation Act (1931); a unique piece of legislation designed to prevent the loss of London's squares to development. 461 squares are protected under this act.

Common: The Commons Registration Act 1965 initiated a formal inventory of commons and green in England and Wales. It defines common land as 'land subject to rights of common (as defined in this Act) whether those rights are exercisable at all times or only during limited periods' and 'waste land of a manor not subject to rights of common' (Section 22).

The Commons Act 2006 provided another chance for common land to be registered. This new law aims to protect these areas, in a sustainable manner delivering benefits for farming, public access and biodiversity.

Data is obtained from Defra (2012). This database is believed to contain records for nearly all parcels of registered common land in England, with various associated data including location, area, extent of rights etc. The information for Greater London was assembled in 1985 as part of the biological survey of common land. The data are not kept up-to-date with subsequent new registrations of common land, or amendments to existing registrations. These data must be seen as a snapshot of the registers of common land at the time of the survey. Although deregistration of land registered as common land occurs very infrequently, the entries in this database cannot be guaranteed, and reliance should be placed on an inspection of the relevant register held by the commons registration authority for confirmation.

Village Green: is an area which has been allocated by an Act of Parliament for the exercise or recreation of the inhabitants of any locality, or on which the inhabitants of any locality have a customary right to indulge in lawful sports and pastimes.



Data are taken from information collected by the Greater London Council in 1965.

Metropolitan Open Land: is land designated to strategically project important open spaces within the built environment. It provides a clear break in the urban fabric and contributes to the capital's green character, often hosting outdoor facilities for Londoners away from their local area and boasting nationally or regionally significant features of landscape of historic, recreational or biodiversity value.

Green Belt: is land which has been specifically designated as such, either by legislation or through the preparation of development plans, with the aim to protect the open character of the countryside next to urban areas.

| Public Open Spaces and Areas of Deficiency in Access to Public Open Space | | |
|---|--|--|
| Public Open Spaces are categorised according to a site hierarchy documented in The London | | |
| Plan (Table 7.2). | | |

| Public Open Space | Iblic Open Space Description | | Distances from |
|--------------------------------|--|-----------------------|----------------------|
| Category | - | guideline | homes |
| Regional Parks | Large areas, corridors or networks of open space, the majority of which will be publicly accessible and provide a range of facilities and features offering recreational, ecological, landscape, cultural or green infrastructure benefits. Offer a combination of facilities and features that are unique within London, are readily accessible by public transport and are managed to meet best practice quality standards. | 400 hectares | 3.2 to 8 km |
| Metropolitan Parks | Large areas of open space that provide a similar range of benefits to Regional Parks and offer a combination of facilities at a sub- regional level, are readily accessible by public transport and are managed to meet best practice quality standards. | 60 hectares | 3.2 km |
| District Parks | Large areas of open space that provide a landscape setting with a variety of natural features providing a wide range of activities, including outdoor sports facilities and playing fields, children's play for different age groups and informal recreation pursuits. | 20 hectares | 1.2 km |
| Local Parks and Open Spaces | Providing for court games, children's play, sitting out areas and nature conservation areas. | 2 hectares | 400 m |
| Small Open Spaces | Gardens, sitting out areas, children's play spaces or other areas of a specialist nature, including nature conservation areas. | Under 2 hectares | Less than 400 m |
| Pocket Parks | Small areas of open space that provide natural surfaces and shaded areas for informal play and passive recreation that sometimes have seating and play equipment. | Under 0.4 hectares | Less than 400 m |
| Linear Open Spaces | Open spaces and towpaths alongside the Thames, canals and other waterways; paths, disused railways; nature conservation areas; and other routes that provide opportunities for informal recreation. Often characterised by features or attractive areas which are not fully accessible to the public but contribute to the enjoyment of the space. | Variable | Wherever feasible |



Open Space Categories

The main site typologies are based upon previous *Planning Policy Guidance 17: Planning for Open Space, Sport and Recreation* categories.

Sub-categories are based on classifications used in the GLA open space surveys.

i. Parks and Gardens

Park refers to traditional public open spaces laid out formally for leisure and recreation. They usually include a mixture of lakes, ponds, lidos, woodland, flower beds, shrubs, ornamental trees, play spaces, formal and informal pitches, bowling greens, tennis courts, golf pitch & put, footpaths, bandstands, toilets, cafes and car parks - but not necessarily all of these. Parts of some parks might be managed as so-called natural areas. Examples of parks include the Royal Parks, municipal parks such as Battersea and Victoria, and wilder places such as Hampstead Heath which, although having distinctly informal qualities, are maintained predominantly for the same purpose, and include the usual swings and roundabouts and playing pitches. Many parks are enclosed by walls or railings, although some parks that began as common land may not be enclosed.

Formal garden refers to spaces with well defined boundaries that display high standards of horticulture with intricate and detailed landscaping. It includes the London squares common to central London, which are typically square areas of grass with some shrub borders, bounded by railings, and surrounded by buildings. Examples include Belgrave Square and Soho Square.

ii. Natural and Semi Natural

Common refers to publicly accessible open space that has few if any 'facilities'. It will typically be mainly open rough grassland (not mown playing field or recreation ground type grass) and/or woodland, and may have a limited provision of facilities. In typology terms, commons are much less formal than parks or parkland. Examples include Wimbledon Common, Wanstead Flats, and parts of Epping Forest.

Country Parks are large areas set aside for informal countryside recreation near or within towns and cities. A list of sites that call themselves Country Parks is available on the Natural England website.

Private woodland refers to woodland which is not accessible for recreational use, nor managed for nature conservation. Record this under "other" until the survey form is revised to accommodate it.

Public woodland refers to woodland which is accessible for recreational use, but not managed for nature conservation.

Nature reserve is a category reserved for an open space that is managed primarily for nature conservation. Do not tick this box just because the site has a nature conservation designation. Many parks, etc. have such designations. An SSSI is likely to have park, common or agriculture as its type. Designated Local Nature Reserves, however, are recorded here. Also do not tick this box where you find small areas set aside for nature within parks, commons and other open spaces.

iii. Green Corridors

River should only be used for rivers and streams that do not form part of another land use, such as park, common or nature reserve.

Canal implies an artificial waterway which is navigable. Include docks in this category.



Railway cutting and railway embankment are self-explanatory.

Disused railway trackbed is usually obvious, with some traces of its former use. Where disused trackbeds are specifically managed for nature conservation, such as Parkland Walk, record as nature reserve.

Road island/verge is self-explanatory. Record as nature reserve if specifically managed for nature conservation.

Walking / cycling route is a designated footpath / cycleway through informal open space often along former railways or canals but record these examples as Disused railway trackbed or Canal.

iv. Outdoor Sports Facilities

Recreation ground is an area of mown grass used primarily for informal, unorganised ball games and similar activities (including dog walking). Not to be confused with playing fields, below.

Playing field is a site comprising playing pitches, usually for football, but also for rugby and hockey and, in the summer, for cricket. Playing pitches may not always be laid out in the summer, so look out for notice boards or changing rooms and pavilions for evidence. Include sites here even if they appear disused. Include school playing fields. Almost always, playing fields consist only of pitches; but they will sometimes have other bits of open land around the edges. Do not include sites that partly contain playing pitches but are more properly categorised as parks or commons. Pitches are often to be found in parks and commons, but the type here is concerned with sites that are exclusively or predominantly reserved for organised team sports.

Golf course: do not include golf courses that are part of parks, commons etc. This type does not include golf driving ranges, pitch & putt or crazy golf.

Other recreational is to be used for sites that are used exclusively or predominantly for other organised sports such as bowls, tennis and golf driving ranges (but not golf courses, see below).

v. Amenity

Village green is usually an expanse of grass in the centre of old villages, often used in the summer for cricket.

Hospital includes the grounds of any clinic or health centre.

Educational refers to school or college grounds and field study centres where school education is the primary function. Nature sites which cater for schools and for the general public should be recorded under nature reserves. School playing fields should be recorded under playing fields.

Back garden land is self-explanatory. While most surveys exclude private gardens, backlands are often surveyed for planning casework.

Landscaping around premises includes communal amenity space around housing estates and community centres, and also landscaping around industrial premises.

Reservoir includes covered reservoirs unless these form part of a park.

vi. Children and Teenagers

Play space is a site set aside mainly for children. It will contain the usual paraphernalia of swings, slides and roundabouts. Do not record play spaces here if they form part of parks, commons and other open spaces.

Adventure playground is a defined play area for children in a supervised environment. Boundaries and entrances are secure.

Youth area is a defined area for teenagers including skateboard parks, outdoor basketball hoops and other more informal areas such as 'hanging out' areas and teenage shelters.



vii Allotments, Community Gardens and City Farms

Allotments should be obvious. Include them even if they appear or are disused.

Community garden includes an area that is generally managed and maintained by the local population as a garden and/or for food growing and normally restricted in their access. For examples Pheonix Garden in Holborn.

City farm includes areas that are generally managed and maintained as a small farm by the local population, containing livestock and planting and normally restricted in their access. For example Freightliners Farm in Islington.

viii. Cemeteries and Churchyards

Churchyard/cemetery includes burial grounds, graveyards, crematorium grounds and memorial gardens, and gardens or grounds of non-Christian places of worship. Some former or burial grounds that have become full have been converted to informal leisure or recreation spaces; where the gravestones have been removed, these should be recorded as parks.

ix. Other Urban Fringe

Equestrian centre includes any land used for intensive horse keeping and riding, but not extensive horse grazing, which should be recorded as agriculture.

Agriculture includes arable and grazing land, including horse grazing, and market gardening (such as vegetables, often grown under cloches, etc.).

Nursery/horticulture does not include commercial retail nurseries (although these might legitimately form a part of a park or common, etc.). Horticulture includes areas of permanent glasshouses.

x. Civic Spaces

Civic/market square includes tarmac areas or paved open spaces, which may or may not include planting. However, they do not necessarily have seats and may just be a plaza area, with some planting (usually trees) and public art. Often provide a setting for civic buildings and opportunities for open air markets, demonstrations and civic events. Examples include the area in front of the jubilee line station at Canary Wharf, and the plaza in front of Westminster Cathedral.

Other hard surfaced areas include other areas designed for pedestrians. These typically are used as 'sitting out' areas, where workers can enjoy the sun and eat their sandwiches, and as such usually have seats or benches. For example, Emma Cons Gardens opposite the Old Vic Theatre. This category excludes pedestrianised streets, car parks, servicing areas to buildings, and housing amenity space such as communal courtyards.

xi. Other

Sewage/water works includes extensive sludge drying areas, filter beds, etc.

Disused quarry/gravel pit may be water-filled, but is not necessarily so.

Vacant land is land with no formal land use. This includes many "urban commons" which are used by people for informal recreation and which may be very valuable for nature conservation. If sites have formalised access and management for nature conservation, record as commons or nature reserves as appropriate.

Land reclamation is land recently decontaminated or reclaimed from disuse, which has not yet been redeveloped.

Others could be anything that does not fit any of the above categories, such as airfields or forestry (not wooded commons or woodland nature reserves)





Greenspace Information for Greater London the capital's environmental records centre



APPENDIX C – Wildlife boxes and access

Sparrow terrace

the spring.

Bird Boxes

The house sparrow is a gregarious species and boxes can be sited close together. Sparrow terraces take advantage of this incorporating two or more separate nesting chambers within the terrace. There are several designs for this and the boxes can be mounted on or in the wall.

Open Fronted Boxes

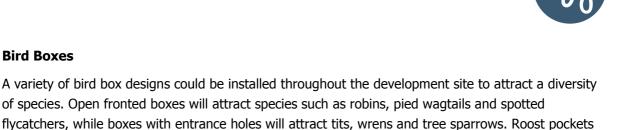
This box is attractive to robins, pied wagtails, spotted flycatcher, wrens and black redstarts and is best sited on the walls of buildings with the entrance on one side.

These woodcrete boxes are designed to mimic natural nest sites and provide a stable environment for chick rearing and winter roosting. They can be expected to last 25 years or more without maintenance.

Boxes with Entrance Holes

This box is attractive to smaller birds such as tits, wrens and tree sparrows. Sparrow terraces are also available.











APPENDIX E – ECOLOGICAL APPRAISAL 2018



Northwood and Pinner Hospital and Northwood Health Centre

Ecological Appraisal



For NHS Property Services

April 2018

11th floor, 1 Angel Court, London EC2R 7HJ

Tel: 020 7250 7500

Email: ecology@wyg.com



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| Prepared by: | 1 Mars | Tim Bradford CEnv MCIEEM |
| Frepared by. | (Jim) | Associate Ecologist |
| Checked By: | F.E. And | Elaine Anderson ACIEEM |
| Checked by. | F. K. Mul | Senior Ecologist |
| Verified By: | | David West CEnv MCIEEM |
| vermed by. | _ asp with | Principal Ecologist |

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Executive Summary

| Contents | Summary | |
|------------------------------|--|--|
| Site Location | Both sites are in north-west London. Northwood and Pinner Hospital: Pinner Road, Northwood, HA6 1DE. The centre of the site is located at grid reference TQ 1000 9066 Northwood Health Centre: Neal Close, Acre Way, Northwood, HA6 1TQ. The centre of the site is located at grid reference TQ 1010 9068. | |
| Proposals | The development proposals have not yet been finalised, however NHS property services are looking at options for disposal of the two sites which are likely to include demolition of buildings and clearance of habitat. | |
| Existing Site Information | An ecological appraisal of Northwood and Pinner Hospital was undertaken in 2015 by WYG which included an Extended Phase 1 Habitat Survey and Bat Emergence and Return Survey. Of note were two bat roosts found in the main hospital building along with an annex. | |
| Scope of this Survey(s) | Ecological Appraisal of the two sites, to determine the potential to support protected or notable habitats and species | |
| Results | The sites contains no habitats of significant value. The sites support or could support the following: Reptiles; Bats (a roost was found in 2015 in the hospital buildings); and Nesting birds. The sites contain the invasive species wall cotoneaster and butterfly bush. | |
| Recommendations | Manage vegetation to prevent it becoming more suitable for reptiles, undertake precautionary clearance; Incorporate suitable habitats for reptiles including refugia where possible within the new development; Carry out emergence and return to roost surveys to update the baseline information on bats; Apply for EPSL for works which may impact bats which will include bat boxes or similar as mitigation for any roosts lost; Undertake vegetation clearance and building demolition outside the bird nesting season, or after a nesting bird check; Incorporate bird nest boxes into the new buildings; and Take actions to avoid spreading invasive species in the wild. | |

Northwood & Pinner Hospital and Northwood Health Centre: Ecological Appraisal



| AONB | Area(s) of Outstanding Natural Beauty |
|----------------------|---|
| Badger Act | Protection of Badgers Act 1992 |
| BCT | Bat Conservation Trust |
| BoCC | Bird(s) of Conservation Concern |
| BTO | British Trust for Ornithology |
| CEnv | Chartered Environmentalist |
| CIEEM | |
| CRoW Act | Chartered Institute of Ecology & Environmental Management |
| | Countryside and Rights of Way Act 2000 |
| EcIA | Ecological Impact Assessment |
| ECoW | Ecological Clerk of Works |
| EIA | Environmental Impact Assessment |
| EMP | Ecological Management Plan |
| EPS | European Protected Species |
| EPSL | European Protected Species Licence |
| GCN | Great crested newt |
| Habitat Regulations | Conservation of Habitats and Species Regulations 2017 |
| HAP | Habitat Action Plan |
| Hedgerow Regulations | Hedgerow Regulations 1997 |
| HPI | Habitat(s) of Principal Importance |
| HRA | Habitats Regulations Assessment |
| JNCC | Join Nature Conservancy Council |
| LERC | Local Ecological Record Centre |
| LBAP | Local Biodiversity Action Plan |
| LNR | Local Nature Reserve |
| LPA | Local Planning Authority |
| MCIEEM | Member of Chartered Institute of Ecology & Environmental Management |
| Natura 2000 site | A European site designated for its nature conservation value |
| NE | Natural England |
| NERC Act | Natural Environment and Rural Communities Act 2006 |
| NNR | National Nature Reserve |
| NPPF | National Planning Policy Framework |
| PEA | Preliminary Ecological Appraisal |
| RSPB | Royal Society for the Protection of Birds |
| SAC | Special Area of Conservation |
| SAP | Species Action Plan |
| SNCO | Statutory Nature Conservation Organisations |
| SPA | Special Protection Area |
| SPI | Species of Principal Importance |
| SSSI | Site(s) of Special Scientific Interest |
| W&CA | Wildlife & Countryside Act 1981(as amended) |
| VVXCA | WINNING & COUNTRYSING ACT 1901(as antenned) |



1.0 Introduction

1.1 Background

WYG was commissioned by NHS Property Services on 11th July 2017 to undertake an Ecological Appraisal of the sites known as Northwood and Pinner Hospital and Northwood Heath Centre.

This report has been prepared by Tim Bradford Associate Ecologist CEnv MCIEEM MSc. BSc.

1.2 Site Location

1.2.1 Northwood and Pinner Hospital ('the hospital')

The site consists of the hospital and surrounding grounds including access roads, car parks and gardens. The site is located on Pinner Road, Northwood, HA6 1DE, in the London Borough of Hillingdon with the site centre at Ordnance Survey grid reference TQ 1000 9066.

1.2.2 Northwood Health Centre ('the health centre')

Located immediately north-east of the hospital, it consists of the health centre building which is surrounded by amenity grassland and access roads/parking spaces. The site is located on Neal Close, Acre Way, Northwood, HA6 1TQ. The centre of the site is located at grid reference TQ 1010 9068.

The sites are both within an urban area surrounded mainly by housing. They are within the conurbation, but close to the north-west edge of Greater London and within 200m to the north and south are large open green spaces.

1.3 Development Proposals

Details of the proposed development are not yet available. However it will involve demolition of the buildings and clearing most if not all of the remaining habitats. The new development is likely to be mostly residential.

1.4 Purpose of the Report

The objectives of this assessment are to carry out:

- A desk study to obtain existing information on statutory and non-statutory sites of nature conservation interest and relevant records of protected/notable species within the site and its zone of influence;
- A preliminary ecological appraisal involving a walkover of the site to record habitat types and dominant vegetation, including any invasive species, and a reconnaissance survey for evidence of protected fauna or habitats capable of supporting such species;
- An assessment of the potential ecological receptors present on site, any constraints they pose to future development and any recommendations for any further surveys, avoidance, mitigation or enhancement measures that are needed (as appropriate).

Note that, where possible, common names for flora and fauna have been used throughout this report for ease of reading.

Northwood & Pinner Hospital and Northwood Health Centre: Ecological Appraisal



2.0 Methodology

2.1 Desk Study

2.1.1 Previous Reports

WYG undertook an Extended Phase 1 Habitat Survey with follow up Bat Internal and Emergence and Return Surveys in August and September 2015.

2.1.2 Local Ecological Records Centre

Information was requested from the Greenspace Information for Greater London (GIGL) for information on any nature conservation designations and protected or notable species records within 2 km of the site. Only relatively recent records (i.e. from no earlier than 2005) have been included in the assessment unless stated otherwise.

The data search covers:

- Statutory designated sites for nature conservation, namely SACs, SPAs, Ramsar sites, SSSIs, NNRs and LNRs;
- Non-statutory designated sites for nature conservation, namely LWS;
- Legally protected species, such as great crested newts, bats and badger;
- Notable habitats and species, such as those listed as Habitats or Species of Principal Importance; and,
- Priority habitats or species within the London LBAP.

The data search did not cover:

- Tree Preservation Orders (TPOs); or
- Conservation Areas designated for their special architectural and historic interest.

2.1.3 Online Resources

A search for relevant information was also made on the following websites:

- MAGIC <u>www.magic.gov.uk</u> DEFRA's interactive, web-based database for statutory designations and information on any EPSL applications that have been granted in the local area since 2015.
- NBN Atlas https://nbnatlas.org/ for records of protected and notable species

2.2 Field Surveys

The following methodologies have been used to identify the ecological receptors present on or near each site, which are relevant to the proposed development.

2.2.1 Habitats

An Extended Phase 1 Habitat Survey was undertaken on the sites on 25th July 2017 by Tim Bradford. The weather conditions were warm and dry.



The vegetation and broad habitat types within the sites were noted during the survey in accordance with the categories specified for a Phase 1 Vegetation and Habitat Survey (Joint Nature Conservation Committee, 2010). Dominant plant species were recorded for each habitat present using nomenclature according to Stace (2010). The site was also appraised for its suitability to support notable flora, with regard to the CIEEM Guidelines for Preliminary Ecological Appraisal (2013).

2.2.2 Protected & Notable Species

The sites were inspected for evidence of, and their potential to support, protected or notable species, especially those listed under Schedule 2 of the Habitat Regulations, Schedule 5 of the W&CA, the CRoW Act, those given extra protection under the NERC Act, and species included in the London LBAP.

Great Crested Newt

Each site was appraised for its suitability to support GCN. The assessment was based on Guidance outlined in the Joint Nature Conservation Committees' published *Herpetofauna Workers' Manual* (Gent & Gibson, 2003) and the *Great Crested Newt Conservation Handbook* (Langton, Becket & Foster, 2001).

Bats

Roosting bats – Buildings/structures/trees

Any suitable buildings, structures or trees on site were assessed from the ground for their suitability to support breeding, resting and hibernating bats using survey methods based on the BCT *Bat Surveys for Professional Ecologists: Good Practice Guidelines* (3rd ed, 2016) – hereafter referred to as the 'BCT Guidelines'. The following system has therefore been used to categorise the bat roost suitability of any features found:

| Suitability | Typical Roosting Features |
|-------------|--|
| Negligible | Negligible habitat feature on site likely to be used by roosting bats. |
| Low | A structure with one or more potential roost sites that could be used by individual bats opportunistically. However, these potential roost sites do not provide enough space, shelter, protection, appropriate conditions and/or suitable surrounding habitat to be used on a regular basis or by larger numbers of bats (i.e. unlikely to be suitable for maternity or hibernation). A tree of sufficient size and age to contain potential roost features but with none seen from the ground or features seen with only very limited roosting potential. |
| Moderate | A structure or tree with one or more potential roost sites that could be used by bats due to their size, shelter, protection, conditions and surrounding habitat but unlikely to support a roost of high conservation status (with respect to roost type only – the assessments in this table are made irrespective of species conservation status, which is established after presence is confirmed). |
| High | A structure or tree with one or more potential roost sites that are obviously suitable for use by larger numbers of bats on a more regular basis & potentially for longer |

Table 1 Categories of Bat Roost Suitability (BCT Guidelines)



| Suitability | Typical Roosting Features | | |
|-------------|---|--|--|
| | periods of time due to their size, shelter, protection, conditions & surrounding habitat. | | |

Foraging/commuting bats

The BCT Guidelines use the following criteria to categorise the potential value of habitats and features for use by foraging and commuting bats and these have been used to characterise the value of these sites:

| Suitability | Typical Foraging & Commuting Features |
|-------------|--|
| Negligible | Negligible habitat features on site likely to be used by commuting or foraging bats. |
| Low | Habitat that could be used by small numbers of commuting bats such as a gappy hedgerow or unvegetated stream, but isolated, i.e. not very well connected to the surrounding landscape by other habitat. |
| | Suitable, but isolated habitat that could be used by small numbers of foraging bats such as a lone tree (not in a parkland situation) or a patch of scrub. |
| Moderate | Continuous habitat connected to the wider landscape that could be used by bats for commuting such as lines of trees and scrub or linked back gardens. |
| | Habitat that is connected to the wider landscape that could be used by bats for foraging such as trees, scrub, grassland or water. |
| High | Continuous high-quality habitat that is well connected to the wider landscape that is likely to be used regularly by commuting bats such as river valleys, streams, hedgerows, lines of trees and woodland edge. |
| | High-quality habitat that is well connected to the wider landscape that is likely to be used regularly by foraging bats such as broadleaved woodland, tree-lined watercourses and grazed parkland. |
| | Site is close to and connected to known roosts. |

Table 2 Categories of Habitat Suitability (BCT Guidelines)

Reptiles

The sites were appraised for their suitability to support reptiles. The assessment was based on guidance outlined in the Joint Nature Conservation Committees' published *Herpetofauna Workers' Manual* (Gent & Gibson, 2003).

Badgers

Each site was surveyed for evidence of badger setts or other badger activity such as paths, latrines or signs of foraging. Methodologies used and any setts recorded were classified according to published criteria (Harris, Cresswell & Jefferies, 1989).



Other Species

The sites were also appraised for their suitability to support other protected or notable fauna including mammals, amphibians, birds and invertebrates with regard to CIEEM's *Guidelines for Preliminary Ecological Appraisal* (2013) and *BS42020:2013 Biodiversity – Code of Practice for Planning and Development*. Evidence of any current or historical presence of such species was recorded.

2.2.3 Invasive Species

Each site was searched for evidence of invasive plant species, such as Japanese knotweed, Himalayan balsam, giant hogweed, wall cotoneaster and rhododendron –see Appendix A for a full list of plants included on Schedule 9 of the W&CA.

2.3 Limitations

The optimal period to undertake an extended Phase 1 habitat survey is April-September. The survey was completed in July which is in the optimal survey window. As such this is not considered to be a limitation to the accurate assessment of the habitats and the dominant species of the respective vegetation types were visible and identifiable.

To determine presence or likely absence of protected species usually requires multiple visits at suitable times of the year. As a result, this survey focuses on assessing the potential of the site to support species of note, which are considered to be of principal importance for the conservation of biodiversity with reference to those given protection under UK or European wildlife legislation. This report cannot therefore be considered a comprehensive assessment of the ecological interest of the site. However, it does provide an assessment of the ecological interest present on the day the site was visited and highlights areas where further survey work may be recommended.

The details of this report will remain valid for a period of **two years** from the date of the survey (i.e. July 2019), after which the validity of this assessment should be reviewed to determine whether further updates are necessary. Note that the recommendations within this report should be reviewed (and reassessed if necessary) should there be are any changes to the site conditions, red line boundary or development proposals which this report was based on.



3.0 Baseline Conditions

3.1 Designated Sites

The following designated sites of nature conservation importance have been identified within 2km of the sites.

Table 3Designated Sites within 2km

| Designation | Site Name | Distance & Direction | Summary of features | |
|---------------------|---|-------------------------|--|--|
| Borough Grade II | Hog's Back Open Space (formerly Borough Hill) | 0.11km north- east | A hillside site where narrow paths wind through dense woodland, grassland and scrub. | |
| Borough Grade I | Haste Hill Golf Course, Northwood Golf Course and Northwood Park | 0.33km South- west | Golf courses close to Ruislip Woods, with woodland and grassland areas. | |
| Borough Grade II | Potter Street Hill | 0.64km North- east | A meadow, spinney and other habitats within the grounds of St John's School. | |
| Borough Grade I | Haydon Hall Meadows | 0.72km South east | A series of lightly cattle-grazed meadows, an orchard and river corridor in the grounds of Haydon Hall. | |
| Borough Grade II | St Vincent's Hospital Meadows | 0.84km south- west | Two fields, one each side of St Vincent's Hospital, rich in butterflies and grasshoppers. | |
| Metropolitan | Potter Street Hill North Pasture | 0.95km North | A small field of flower-rich grassland with perhaps the largest population of devil's- bit scabious in London. | |
| SSSI | Ruislip Woods | 0.96km south- west | The Ruislip Woods form an extensive example of ancient semi-natural woodland, including some of the largest unbroken blocks that remain in Greater London. | |
| NNR | Ruislip Woods | 0.96km south- west | A significant expanse of wooded area, with open grassland supporting a wide range of flowering plants. | |
| Metropolitan | Ruislip Woods and Poor's Field | 0.96km South- west | One of London's two National Nature Reserves, this site includes a large area of ancient woodlands, as well as heathland and grassland. | |

Northwood & Pinner Hospital and Northwood Health Centre: Ecological Appraisal



| Designation | Site Name | Distance & Direction | Summary of features |
|---------------------|----------------------------------|-------------------------|--|
| Borough Grade I | Pinnerwood Park and Ponds | 0.99km North- east | A large private golf course with an ancient wood, flower-rich acid grassland and a number of ponds. |
| Borough Grade II | Northwood Railway Cutting | 1.11km North- west | Wide banks on both sides of railway lines at Northwood. |
| Borough Grade II | Grim's Ditch and Pinner Green | 1.27km East | Woodland associated with ancient earthworks, combining archaeological and historic interest with good wildlife habitat. |
| Borough Grade II | Fore Street Meadows | 1.34km South | Two grazing fields, hedgerow and a section of public footpath situated on the east margin of Park Wood. |
| Local | River Pinn near Eastcote | 1.52km South | The River Pinn flows through a series of open spaces, forming a green corridor. |
| Borough Grade II | Gravel Pit, Northwood | 1.54km North- west | Heavily wooded gravel diggings, excellent for quiet walks. |
| Borough Grade II | The Grail Centre | 1.69km East | The grounds of a religious retreat with a number of wildlife-friendly features. |
| Borough Grade II | Old Pumping Station Field | 1.85km South- west | A large area of rich grassland with good native hedgerow boundaries. |
| Local | River Pinn at West Harrow | 1.95km East | An attractive river corridor with a good range of wildlife habitats. |

In additional to the above designations, the nearest Natura 2000 site is Burnham Beeches, a SAC designated for its extensive area of beech woodland, 15 km south-west of the sites.

3.2 Habitats

The following habitats have been identified through our assessment:

3.2.1 Plantation Broadleaved Woodland

Within the south-east corner and along the eastern boundary of the hospital, there were patches of woodland. These all appeared to have been planted and were a mix of species including oak, ash, sycamore and common lime. The understorey was dominated by bramble, with holly and elder frequently encountered.

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Photo 1: The broadleaved woodland (eastern boundary of Northwood and Pinner Hospital)



3.2.2 Scattered trees

Photo 2: Scattered trees



Around the hospital site there were individual or small clumps of trees. Where these were growing they were mostly growing within amenity grassland or hard standing.

On the health centre site they were found along the south and west boundary. Trees within this habitat included ash, hawthorn and ornamental cherry.

3.2.3 Amenity grassland

This habitat covered large parts of the centre and east of the hospital site. The grass had grown since the 2015 survey as it is no longer managed and ranged from 25-75 mm. At the time of the survey many of the plants were in flower. Grass species included perennial rye grass, Yorkshire-fog creeping bent and red fescue. Other herbaceous species included yarrow, daisy, lesser celandine and bird'sfoot trefoil. On the health centre site the grassland had been regularly maintained and was mostly less than 50 mm.



Photo 3: Amenity grassland



3.2.4 Species-rich hedgerow (defunct)

Photo 4: Species-rich hedgerow



Along the front (south) of the hospital site is a short (approximately 15 m) stretch of hedgerow (see Photo 4). There is a high number of woody species. The species found included ash, hawthorn, sycamore, honeysuckle, copper beech and fig. Whilst the hedgerow has a good diversity of plants, it is adjacent to a busy road, and isolated from other habitats which reduces its value to wildlife. It is classified as *defunct* under Phase 1 classification as it is only a short section and not stock-proof.

3.2.5 Species-poor hedgerow

Along the northern boundary of the hospital site there was a Leyland cypress hedge. This plant has shaded out other competitors making the hedgerow relatively species poor.



Photo 5: The species poor Leyland cypress hedge



3.2.6 Introduced Shrubs

Photo 6: Sections of introduced shrub



Around the borders of the amenity grassland in the hospital site, and adjacent to the health centre building there were several patches of introduced shrubs. Those in the hospital site were no longer maintained, and had overgrown the adjacent grass or pathways. The species within these were predominantly non-native plants and included butterfly bush, variegated box, wall cotoneaster and native dog rose.

3.2.7 Buildings

The buildings on the hospital site comprise the main hospital building with various extensions, brick and wooden sheds to the north, and a substation to the south-east; on the health centre site there was just the centre itself. As buildings can support roosting bats they are discussed further in Section 4.3.



3.2.8 Hard standing

Photo 7: Part of the hard standing (hospital car park)



The hard standing within the sites comprised car parking, access roads and pathways. These were made from tarmac or concrete and unsuitable for plants to grow on or through.

3.3 Protected & Notable Species

3.3.1 Great Crested Newts

Desk Study

There are records of GCN within 2km of the sites. The nearest is 1.4km to the north-west (latest record is from 2011). Although the precise location of this record is not given, the area where it was found is disconnected from the site by dense housing and roadways. The GCN EPSL licence is 1.77km south-west (close to Ruislip Lido).

Field Surveys

HSI Assessment

No water bodies were found within 500m of the sites that were connected by suitable habitat as they are cut off on all side by roads with heavy traffic. No HSI assessment was therefore carried out.

Terrestrial habitat

The habitat on the sites was mostly grassland, buildings and hard standing, all of which are unsuitable for GCN to dwell in their terrestrial phase (though the newts could commute over grass and hard surfaces). The woodland provided more suitable habitat, with the understorey providing cover, and the dead wood from the trees forming potential refugia or hibernacula.

Overall, as there were no potential breeding ponds on or connected to the sites, it is considered unlikely that GCN will use them. As such they are not considered further in this assessment.



3.3.2 Reptiles

Desk Study

Records of slow worm, common lizard, grass snake, and adder were returned within 2km of the sites. The first three were found 1.76km to the south west (latest record 2010), which is likely to be all from the same site. The area where these reptiles were found is disconnected from the sites by Pinner Road. The record for adder does not have a location as this species suffers persecution from humans. The most recent date is given as 2010.

Field survey

The majority of the habitats (i.e. the built structures and hard standing) were of low value for reptiles. Reptiles could bask on the periphery of the hard standing, but it would provide little cover from predators. The grassland was slightly better, providing some more cover and potential invertebrate food source (for common lizard and slow worm), however it is still unlikely to provide significant cover from predators. The most likely areas on the site to support reptiles are at the boundaries of two habitats e.g. amenity grassland and introduced shrubs, where reptiles could bask in short vegetation and find refuge in taller vegetation. Such areas cover only a small portion of the site, therefore the opportunities for reptiles are limited. As the sites are in a dense urban area, and they are disconnected from large areas of other suitable habitats and source populations (though with connection to other relatively small spaces), the sites have low potential for reptiles.

3.3.3 Bats

Desk study

Records of seven species of bat were found within 2km of the sites. The date and distance of the nearest record of each species is given in Table 4. The nearest EPSL record for bats is a licence for soprano and common pipistrelles and brown long-eared bats, 1.27km north-west. This was for the damage or destruction of a non-breeding resting place. No other species are covered within the other licences for bats.

| English name | Distance and direction | Date |
|----------------------|------------------------|--------|
| Common pipistrelle | 1.27km North-west* | 2015** |
| Soprano pipistrelle | 1.27km North-west* | 2015** |
| Brown long-eared bat | 1.27km North-west* | 2015** |
| Serotine | 1.84km South-west | 2006 |
| Daubenton's bat | 1.84km South-west | 2006 |
| Leisler's bat | 1.84km South-west | 2006 |
| Noctule | 1.84km South-west | 2006 |

Table 4 Nearest record of each species of bat found within 2km of the sites

*Record taken from EPS licence granted



** Date licence was granted, though bat may have been recorded in a previous season (likely no earlier than 2014).

Previous report

WYG undertook a daytime internal inspection and emergence and return to roost survey of Northwood and Pinner Hospital in 2015. During the survey both the main hospital building (B1) and the annex building had droppings of long-eared bats. Three long-eared bats were seen roosting in the rafters of the annex structure confirming it is an active roost. Due to the presence of relatively fresh droppings in B1 this was also confirmed as a bat roost, likely to be non breeding due to the small number of droppings.

No bats were seen emerging from or returning to any building, but common and soprano pipistrelles, long eared bats, noctules and a Myotis species of bat were all heard flying over the buildings. Foraging activity was minimal.

Field survey

Hospital site

There were five buildings, or sections of buildings within the site. A sixth structure, a burned-out shed was completely unsuitable for bats. Likewise a seventh was a smashed-up shed, and neither were considered for their bat roost potential. The actual hospital building will be considered as three separate structures. For locations of each building/building section see Figure 2.

Main Building (B1)

Photos 8 and 9: The south (left) and west (right) elevations of the Main Building viewed from the south



The Main Building was constructed in the 1920's. The structure was brick mostly covered with a ceramic tiled, pitched roof. There are sections of flat roof on the north, west and east elevation. These were covered with roofing felt, and with the exception of the west elevation, had a parapet wall running around the edges.

The window frames were almost all wooden, with a few modern uPVC frames. Along parts of the western and eastern elevations there were ceramic hanging tiles. These hanging tiles and the ones



on the roof were in a poor condition with several having broken or slipped out. This allowed potential access for bats to get under the roof tiles.

As noted above, fresh droppings were found inside the roof in 2015, therefore the Main Building is a **confirmed bat roost**.

North Annex (B2)

The North Annex is attached to the east side of the Main Building. It is a similar style of structure to the Main Building, and appeared to have been built at the same time or shortly after. It is a brick structure, with a ceramic-tiled roof. It had wooden framed windows, and on the roof there was a door in a dormer structure leading to the roof void.

There were a few slipped or broken tiles on the roof. These provided access under the tiles and potentially into the roof void.

Photos 10 and 11: The North Annex viewed from the north-west (left) and east (right)



As noted above, three long eared bats were observed in the loft void in 2015, therefore the annex building is a **confirmed bat roost**.

South Annex (B3)

Photos 12 and 13: The southern elevation of South Annex showing the brick section (left) and plastic walled section (right)





The South Annex was also joined to the Main Building on that structure's east side. It appeared to be much more modern than the Main Building and North Annex, most likely to be no more than 40 years old. It consists of a plastic-walled section with a metal roof, and a brick section which had a felt roof and wood cladding around the eaves. The structure of the building was in good condition, with no potential bat access points noted in the South Annex.

No evidence of bats was noted.

Given the good condition of the South Annex it had **negligible** bat roost suitability.

Shed (B4)

Photo 13: The Shed viewed from the south-east



To the north-east of the main building there was a brick shed. The roof was formed of concrete covered with roofing felt. Some of the windows had been broken allowing a view inside the structure. There was no opportunity for bats to roost in the building or on the roof.

No evidence of bats was seen.

Given the lack of opportunities for bats, the Shed had **negligible** roosting suitability.



Substation (B5)

At the edge of the woodland in the south-east of the site there was a small building, likely to house a substation or other electrical equipment. It was constructed from brick with a flat felt roof. On the west elevation was a wooden louvered door. The Substation was in a relatively good condition, and there appeared to be no gaps or crevices suitable for bats to roost.

Photo 14: Substation



No evidence of bats was seen.

Given the lack of opportunities for bats, the Substation had **negligible** roosting suitability.

Trees

The trees within the site were all immature or semi-mature. Some had small crevices or holes in the trunk. However none of the trees on the site had features of sufficient size to support roosting bats. All the trees had **negligible** bat roost suitability.

Health centre site

Health centre (B5)

The only building within the site, this was a brick built structure with a pitched cement-tiled roof. The tiles were well fitted throughout and the walls were in good condition with no obvious crevices. Around the eaves of most of the roof ran UPVC soffit boxes which had no gaps between the roof and wall for bats to access and roost. Lead flashing joined some sections of the roof to the wall. On the north side of the building there was one section which was slightly loose providing potential access for bats; this area of the building had **low** bat roost suitability, other than this the remainder of the building had **nogligible** bat roost suitability.

Trees

The trees around the heath centre site were immature or semi mature, with no features of value for roosting bats. They had **negligible** bat roost suitability.



Foraging and commuting

The landscaped habitats on the site (woodland, hedgerows, grassland and shrub) may support the invertebrates on which bats feed. The site also forms part of the green network of gardens and small parks which join up the larger green spaces around Northwood. Therefore bats may commute through on their way between feeding areas or between foraging sites and their roosts. Much of the area is lit, or affected by glow from streetlamps, and the road to the south provides a partial barrier to the movement of bats. The site therefore is of low value for foraging and commuting bats.

3.3.4 Badgers

Desk study

No records of badgers were returned from within 2 km of the sites.

Field survey

The sites provided suitable habitat for badgers, with woodland and some of the shrubs providing cover for them to build their setts. The amenity grassland was likely to provide a source of worms and other badger prey. During the survey no evidence of badgers was noted, which would include sett entrances, foraging 'snuffle' holes, latrines or badger hairs. All areas of the site were accessible, and all areas of suitable habitat (i.e. not hard standing or buildings) within 50 m of the site, were visible from the boundary. The site is therefore unlikely to be used by badgers.

3.3.5 Other species

Nesting birds

Desk study

Sixty-two species of bird have been recorded within 2 km of the sites. Many of these are approximately 1- 2 km to the south-west which means they are likely to be associated with Ruislip Lido or the woodlands nearby. However there are several species which could utilise each site including house sparrow, herring gull, starling and song thrush; all four of these species are on the red list of Birds of Conservation Concern (Eaton *et al.* 2015).

Field survey

No birds were noted nesting during the survey, however it was late in the season and their young may have already fledged. The site offers a variety of nesting possibilities, both natural and manmade. These include some of the more mature trees which have many branches making up a network of support for nests, and the flat roofed sections of the hospital building and health centre which provide a platform away from predators.

Invertebrates

Desk study

Forty three species of invertebrates have been recorded within 2 km of the sites, of these only stag beetle was found within 1 km.



Field survey

The habitats on the sites provided a variety of climates which could support common and widespread species. Given the woodland in the east of Northwood and Pinner Hospital is not regularly managed and holds some dead an decaying wood, it is likely that some species which feed or build their homes in deadwood, such as stag beetles will be found here.

Other mammals

Desk study

No other records of mammals were found within 2 km of the sites.

Field survey

The sites (especially woodland) held habitat which was suitable for hedghogs to feed and find dwellings in. The boundaries are relatively open to this species so it is likely individuals could migrate to or from the sites.

3.4 Invasive species

Wall cotoneaster and butterfly bush were found within the introduced shrubs (Target Note 1, Figure 1). Both of these are invasive species in London, and cotoneaster is listed on schedule 9 of the W&CA.

3.5 Importance of Ecological Features

In line with the CIEEM PEA Guidelines, and based on the above baseline information, each ecological feature recorded within the study area is considered to have the following importance, as defined within the CIEEM ECIA Guidelines (2016):

| Feature | Importance | Rationale |
|-------------------------------|--------------------------|--|
| Ruislip Woods SSSI and NNR | National | Statutory sites designated at the national level |
| Metropolitan grade SINC | County | Non-statutory designated sites of metropolitan (Greater London) importance |
| Borough/local grade SINC | local | Non-statutory designated sites of borough or parish importance |
| All habitats | Site level | Habitats are relatively common in the local area |
| Bats | Unknown; likely local | Further night-time surveys required; roost of low numbers of non-breeding bats found |
| Nesting birds | Site level | Loss of the site will affect birds, but other similar habitats are available in the local area |

Table 4 Importance of Ecological Features



| Feature | Importance | Rationale | | |
|--|--------------------------|---|--|--|
| Reptiles | Unknown, likely local | If reptiles are found on site, they are likely to be small numbers of common species. | | |
| Either: International (incl. European) / National / Regional / County / Local / Site level | | | | |
| Or: Unknown (i.e. further surveys/information needed) | | | | |

The potential for the proposals to have adverse or beneficial impacts on these features, along with the need for any mitigation or enhancement measures are discussed in detail below.



4.0 Relevant Planning Policy & Legislation

4.1 National Planning Policy Framework

The NPPF was adopted in March 2012. Section 11 of the NPPF, Conserving and Enhancing the Natural Environment replaces Planning Policy Statement 9 (PPS9): Biodiversity and Geological Conservation. However, government Circular 06/2005, Biodiversity and Geological Conservation: Statutory Obligations and their Impact within the Planning System, which relates to PPS9 remains valid and is referenced within Paragraph 113 of the NPPF.

Circular 06/2005 states that the presence of protected species is a material consideration in the planning process. The NPPF also states that '*planning policies should promote the protection of priority species populations linked to national and local targets*'.

Furthermore, central and local government policy now points towards ecological enhancement on development sites. The NPPF considers enhancement in the statement '*The planning system should contribute to and enhance the natural and local environment by protecting and enhancing valued landscapes...and minimising impacts on biodiversity and providing net gains in biodiversity*'.

4.2 Biodiversity 2020: A strategy for England's wildlife & ecosystem services

Biodiversity 2020 replaces the previous UK Biodiversity Action Plan and sets national targets to be achieved. The intent of Biodiversity 2020, however, is much broader than the protection and enhancement of less common species, and is meant to embrace the wider countryside as a whole.

The priority species and habitats considered under Biodiversity 2020 are the SPI & HPI detailed under NERC Act (see Appendix A for further details).

4.3 Local Biodiversity Action Plan

Local Biodiversity Action Plans (LBAPs) identify habitat and species conservation priorities at a local level (typically County by County) and are usually drawn up by a consortium of local Government organisations and conservation charities. Although they are no-longer managed at a national level many are still reviewed and updated at a local level.

The London LBAP is the relevant document for this site and it contains the following Habitat & Species Action Plans:

Table 5 LBAP SAPs

| Species Action Plans | | |
|----------------------|-------------|--|
| Bats | Mistletoe | |
| Black poplar | Stag beetle | |
| Reptiles | Sand martin | |

Northwood & Pinner Hospital and Northwood Health Centre:



Ecological Appraisal

| Species Action Plans | |
|----------------------|------------|
| House sparrow | Water Vole |

Table 6 LBAP HAPs

| Habitats Action Plans | |
|------------------------------|--------------------|
| Acid grassland | Wasteland |
| Chalk grassland | Rivers and streams |
| Heathland | Reedbed |
| Private gardens | Woodland |
| Parks and urban green spaces | Standing water |
| Tidal Thames | |

It should be noted that the existence of a SAP or HAP does not always infer an elevated level importance for those features. These plans may be designed to encourage an increase in these habitats/species, rather than to protect a county-scarce feature (for example).

4.4 Local Plan

Northwood and Pinner Hospital and Northwood Health Centre lie within the London Borough of Hillingdon ('the borough') and as such are subject to the London Plan as well as the borough's Unitary Development Plan (UDP) and Local Plan.

The London Plan (updated 2016) contains several policies relevant to biodiversity. Of particular note, Policy 7.19 states: Development Proposals should wherever possible, make a positive contribution to the protection, enhancement, creation and management of biodiversity and prioritise assisting in achieving targets in biodiversity action plans (BAPs).

Within the borough's UDP (adopted 1998, with policies saved in 2007), Section 1 includes *Ecology and Nature Conservation.* Within that section, policy EC1 states:

The local planning authority will not permit development which would adversely affect the integrity of Sites of Special Scientific Interest, or be unacceptably detrimental to Sites of Metropolitan or Borough (Grade I) Importance for Nature Conservation, designated Local Nature Reserves and other nature reserves. If development is proposed on or in the near vicinity of such sites, applicants must submit an ecological assessment where considered appropriate by the local planning authority to demonstrate that the proposed development will not have unacceptable ecological effects.



Policy EC2 goes on:

The local planning authority will promote nature conservation as a positive land use and will take nature conservation interests into account in considering proposals for development of land. Finally EC5 states:

In determining planning applications the local planning authority may require certain on-site ecological features to be retained in new developments and seek to enhance the nature conservation and ecological interest of sites or create new habitats.

The borough's Local Plan Part 1 was adopted in 2012 also makes provision for ecology in its policies. Policy EM4 covers *Open Space and Informal Recreation* and states:

The Council will safeguard, enhance and extend the network of open spaces, informal recreational and environmental opportunities that operate as carbon sinks and that meet local community needs and facilitate active lifestyles by providing spaces within walking distance of homes. Provision should be made as close as possible to the community it will serve. There will be a presumption against any net loss of open space in the Borough.

Policy EM7 states:

...Hillingdon's biodiversity and geological conservation will be preserved and enhanced with particular attention given to:

- The protection and enhancement of populations of protected species as well as priority species and habitats identified within the UK, London and the Hillingdon Biodiversity Action *Plans;* and
- The provision of biodiversity improvements from all development, where feasible.

4.5 Legislation

Full details of the UK legislation and offences which are relevant to the ecological receptors identified are included in Appendix A. However, based on the findings of our assessment, it is considered that the proposals will need to consider the following legal provisions:

- Disturbance or killing of an EPS
- Disturbance of nesting wild birds
- Disturbance or killing of reptiles
- Cause of permit the spread of an invasive species into the wild



5.0 Discussion

5.1 Designated Sites

Natura 2000 Sites

There are no Natura 2000 sites close by. The nearest is approximately 15 km from the sites, and there are no ecological or hydrological links between them. It is unlikely that this development will affect any Natura 2000 site.

Sites of Special Scientific Interest

The sites lie within a SSSI Impact Risk Zone on the MAGIC map. This means where a development is greater than no. 100 residential units, Natural England should be consulted. The space available on the site is limited (approximately 0.9 ha), therefore it is unlikely that such a high number of dwellings will be built.

It is likely that the sites are sufficiently distant from the SSSI (which is 0.96 km south west across a busy road) that there will be no direct impacts on it, and neither site shares significant ecological features with the SSSI. Assuming any housing development has less than 100 units it is unlikely there will be a significant effect on the SSSI.

Local Wildlife Sites

The designated sites are all sufficiently distant from the sites so to avoid direct impacts during works, and no ecological or hydrological pathways exist between the development sites and the designated site. This includes demolition of the existing buildings and construction of new structures on the sites. There is likely to be a slight increase in traffic during construction, but given that the area is already heavily built up, the main access routes are already busy. Therefore any increased impacts on designated sites near to the access routes is likely to be insignificant.

Following the construction of residential properties there will be an increase in the population and therefore visitors to the nearby green spaces. The nearest designated site is the Hog's Back Open Space to the north-east, and this is the most likely to be visited. The site description does not include reference to ground nesting birds or other animals vulnerable to disturbance by dogs. The habitats listed in the citation are not likely to be vulnerable to foot traffic. Therefore there is not expected to be a significant impact on species using the site.

To minimise the change in visitor pressure on the Hog's Back Open Space and other sites, and in line with the Local Plan policy EM4 it is recommended that public green space is included within the development design. This can be of value to people and animals, incorporating trees, wildflower grassland and waterbodies. The space should be large enough to exercise dogs and other pets and be attractive as an amenity ground to encourage people to use it over the local wildlife sites.

5.2 Habitats

The habitats on sites were locally common, and as such were of negligible value other than to the species they support. No further habitat or floral surveys are necessary.



5.3 **Protected & Notable Species**

Only species which could be found within the sites are detailed in this section. For justification of this see Section 3.3.

5.3.1 Reptiles

Mitigation

The development of the sites will result in the loss of all the habitats which are suitable for reptiles. It is feasible that they use the sites, therefore vegetation clearance could kill or injure reptiles. This would contravene the *Wildlife and Countryside Act 1981* (as amended). To avoid this we recommend that when vegetation is removed it is done in a way that is sensitive to reptiles.

Sensitive vegetation clearance should follow this method:

 Prior to site clearance, maintain grass at a low level (~150 mm) to avoid this becoming reptile-suitable habitat;

Under supervision of a suitably qualified ecologist:

- During vegetation clearance cut all vegetation (including shrubs) to approximately 150 mm during warm (10°C +) and dry weather.
- The vegetation should be left alone for one day one week to allow reptiles to leave of their own accord;
- Log piles and other debris should be dismantled by hand;
- The vegetation should be re-cut, to ground level-50 mm; and
- After one day one week the top layer of earth should be removed.

During site clearance and demolition, rubble piles and other debris should be taken off site, or compacted to avoid reptiles using these as refugia.

Enhancement

Development of the sites offers opportunity to improve the local area for reptiles. In line with the UDP and Local Plan policies it is recommend that the landscaping is designed with biodiversity, including reptiles, in mind. This will include growing medium-height herbaceous plants alongside areas of shorter vegetation to provide foraging and basking opportunities respectively. Where possible this vegetation should be along or joined to the boundary of the site so that reptiles have a green connection to land off-site. If there is sufficient land available, reptile refugia could be created from rubble, wood or other debris, which is covered with soil.



5.3.2 Bats

Hospital site

The old hospital buildings provided opportunities for bats to roost. As these buildings will be demolished to clear the site for development, if bats are roosting the works would contravene the Habitat Regulations and W&CA. Furthermore roosts were confirmed in 2015. To determine how the buildings are being used by bats to roost, and to design mitigation to avoid an offence occurring, further emergence and return surveys, as well as an internal assessment of the buildings where possible, are recommended.

An emergence and return to roost survey and internal assessment should be carried out following the guidance set out in the BCT guidelines (Collins 2016). For the hospital site (Main Building and North Annex only) the following survey effort is recommended:

- Two dusk emergence visits; and
- One dawn return to roost visit.

Health centre site

Part of the health centre building was found to have low bat roost suitability. In line with the BCT guidelines the following survey effort is recommended:

• One dusk emergence visit.

EPSL

The Main Building and North Annex were found to be confirmed roosts during the 2015 surveys. A licence will be required to demolish these structures, or carry out works which may modify them or disturb bats roosting inside. The licence will require details of mitigation for the loss of the roost(s). As small numbers of common species have been found, the mitigation options will be relatively flexible in terms of type and location. No development plan is available yet, however options could include installation of bat boxes in trees retained through the development and/or bat boxes in any new buildings (on or in walls and roofs). For a roost of the type found in 2015 Natural England are unlikely to require any post-mitigation monitoring.

5.3.3 Nesting birds

Mitigation

Where it is necessary to demolish buildings or fell trees there is a risk that birds' nests may be destroyed and/or their young killed. This would contravene the *Wildlife and Countryside Act 1981* (as amended). To help avoid this we recommend that any such works are carried out outside the bird nesting season (which runs March-September, inclusive). If this period cannot be avoided a check for nesting birds should be carried out. If active nests are found a buffer should be set up around these, within which no work can take place, until the young have fledged. The size of the buffer will vary dependent on the level of disturbance and the species of bird, but as a minimum it should be 5m.



Enhancement

Construction of new buildings allows for the inclusion of new and replacement nesting opportunities. In line with local and national planning policy (e.g. Hillingdon Local Plan Policy EM7), we recommend that bird nest boxes are installed on or in the new buildings, and/or on retained trees. These should include boxes which target London BAP species, or national Priority Species e.g. house sparrow, starling or song thrush.

5.3.4 Invertebrates

Mitigation

With the clearance of the woodland, there will be loss of deadwood habitat. This will reduce the populations of the species which rely on them, potentially including the SPI and local BAP species, stag beetle Where possible deadwood (including that from any trees cut down, should be retained and re-used in any development. It is likely animals will quickly re-populate from adjacent areas of woodland, which are not affected by the development.

5.3.5 Other mammals (hedgehogs)

Mitigation

Hedgehogs could be injured or killed when moving any wood or suitable rubble piles Hedgehogs are a SPI and local BAP species, so are of material consideration in the planning process. To avoid impacts upon them any of these structures should be checked before removal. Furthermore, where possible any new development on the sites should consider hedgehogs, by avoiding barriers such as fences where possible, and/or installing suitable access ways through them for hedgehogs to pass.

5.4 Invasive species

Two invasive species were found on the hospital site. One was wall cotoneaster which is listed on Schedule 9 of the *Wildlife and Countryside Act 1981* (as amended). It is illegal to allow this plant to spread in the wild. The second is butterfly bush, which has no legal restrictions covering it, but is listed by the London Invasive Species Initiative (LISI).

To avoid spreading these species it is recommended that where they are to be removed, that they should be sprayed to kill them beforehand. If this is not possible, all the plant material should be chipped after removal.



6.0 Summary & Recommendations

6.1 Designated Sites

It is unlikely there will be significant effects on the designated sites in the local area. To avoid an increase in visitor pressure, public green space(s) should be built into the new development of sufficient size to allow for recreational activities.

6.2 Habitats

No habitats of significant value were found within the site boundaries.

6.3 **Protected & Notable Species**

- Reptiles: manage vegetation to prevent it becoming more suitable for reptiles, undertake precautionary clearance;
- Reptiles: Include suitable habitats including refugia, where possible within the new development;
- Bats: Carry out emergence and return to roost surveys to update the baseline information;
- Bats: Apply for EPSL for works which may impact bats;
- Bats: Include bat boxes or similar as mitigation for any roosts lost;
- Birds: undertake vegetation clearance and building demolition outside the bird nesting season, or after a nesting bird check;
- Birds: Incorporate nest boxes into the new buildings;
- Invertebrates: Retain and re-use deadwood where possible;
- Hedgehogs: Check any wood/rubble piles before removal; and
- Invasive species: Take actions to avoid spreading these in the wild.



7.0 References

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FIGURES

Figure 1 – Site Location Plan Figure 2 – Phase 1 Habitat Plan



| 0 100 | 2 | 200 | 30 | 00 | 400 | 500 | Metre | 9 |
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Site Location Northwood and Piner Hospital and Northwood Health Centre **NHS Property Services Project No:** A094148-2 Scale at A3: Drawing No: **Revision:** 1:10,000 Figure 1 А Drawn date: Drawn by: Approved by: Tim Bradford 30/04/2018 © Crown Copyright All rig Open Government Data re Other Credits: Contains O nt Licence v3.0

6

Legend

Rev

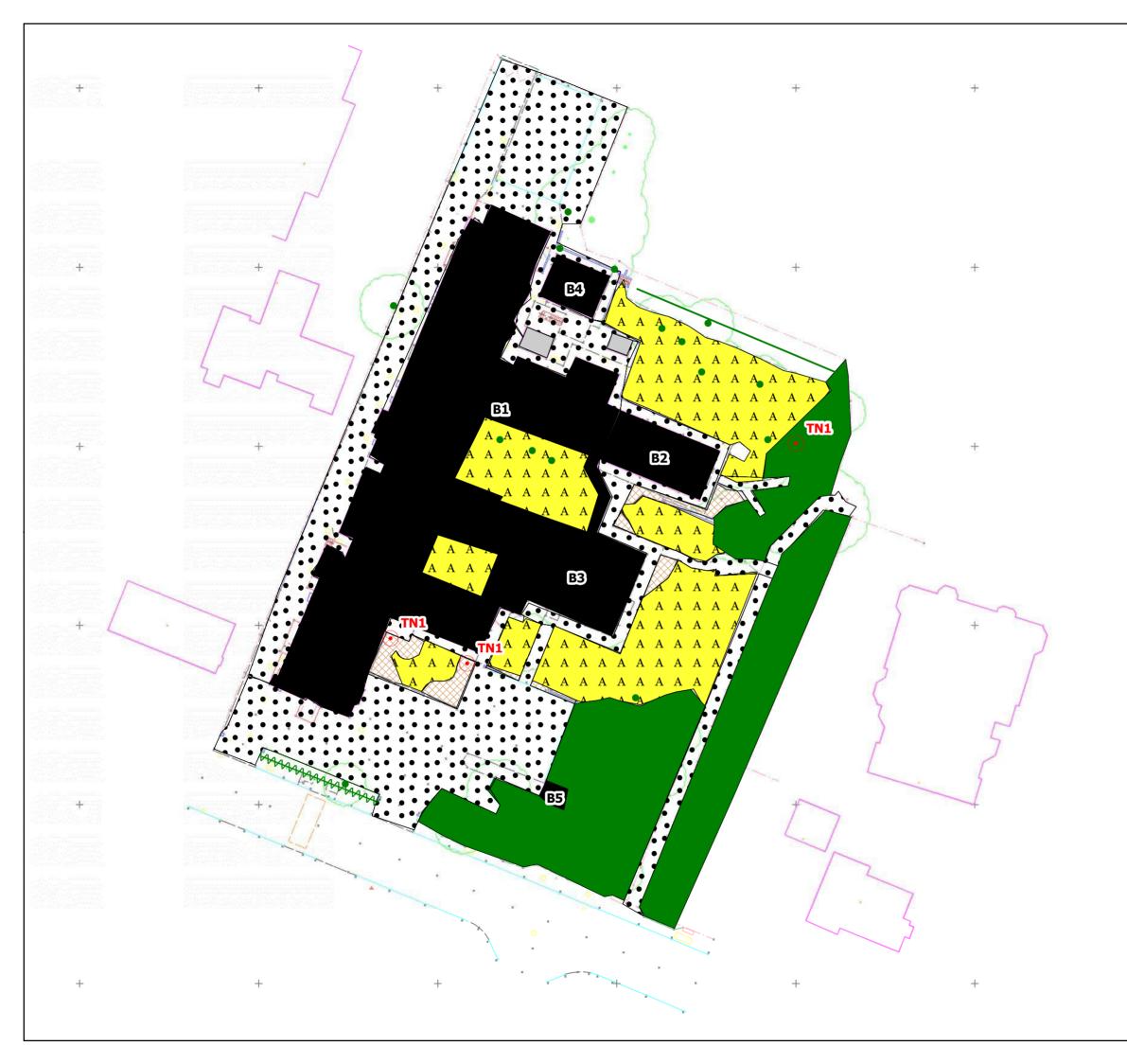
А



Northwood and Pinner Hospital

Date 30/04/18

Northwood Health Centre





Legend



Scattered tree

Target note



Species-poor hedgerow

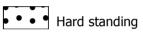
Broadleaved woodland

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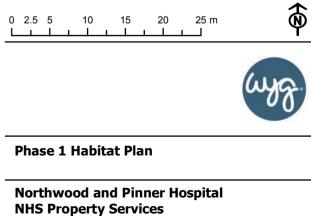
Amenity grassland



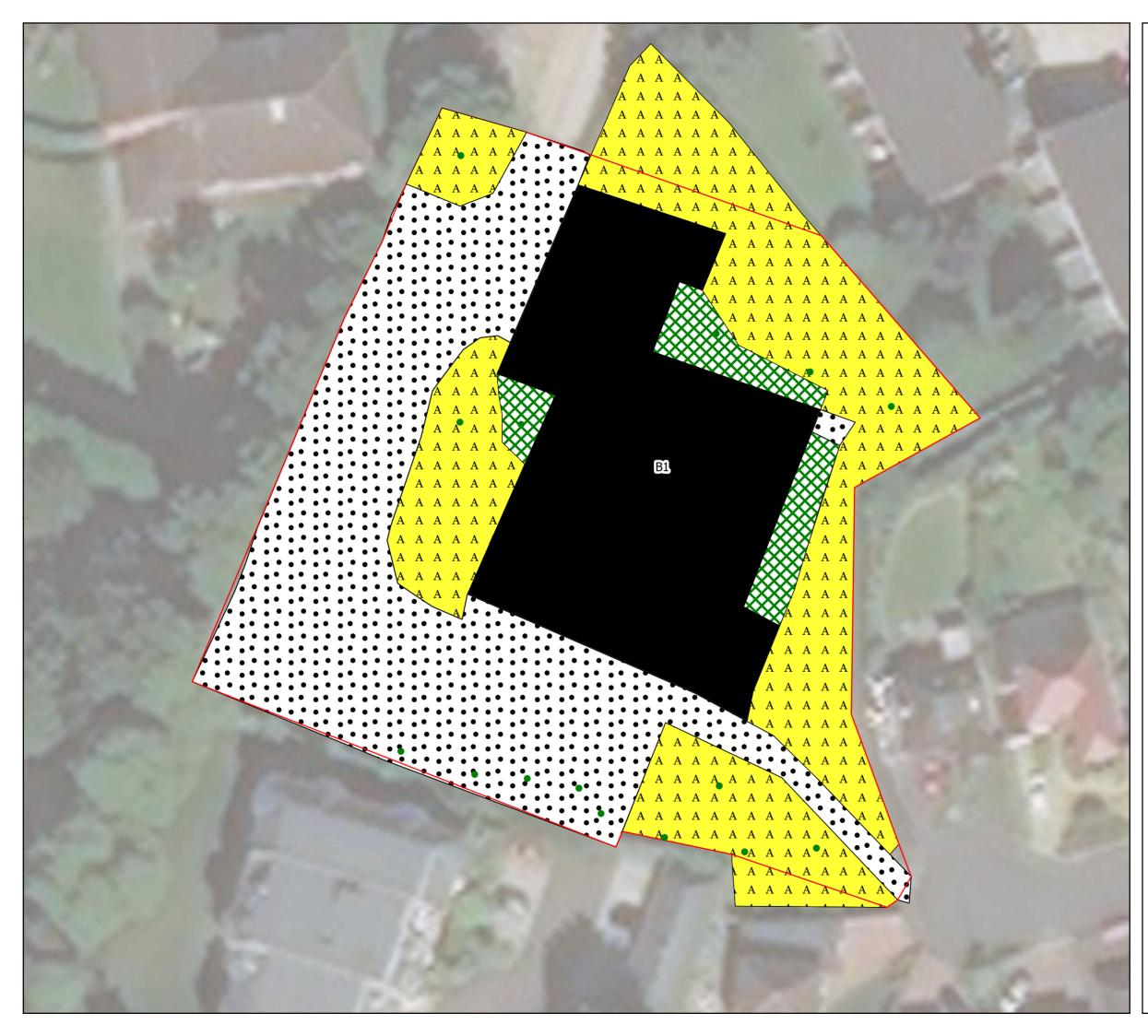
Building



Damaged shed (no bat roost potential)

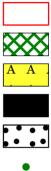


Scale at A3: 1:500 **Project No:** A094148-2 Drawing No: Figure 2a **Revision:** А **Drawn by:** Tim Bradford Drawn date: Approved by: 30/04/2018 © Crow Open G Other C Licence v3.0





Legend



Boundary

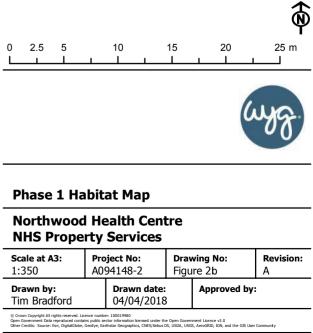
Introduced shrub

Amenity grassland

Building

Hard standing

Scattered tree





Appendix A – Wildlife Legislation



Bern Convention

The *Convention on the Conservation of European Wildlife and Natural Habitats* (the *Bern Convention*) was adopted in Bern, Switzerland in 1979, and was ratified in 1982. Its aims are to protect wild plants and animals and their habitats listed in Appendices 1 and 2 of the of the Convention, and regulate the exploitation of speices listed in Appendix 3. The regulation imposes legal obligations on participating countires to protect over 500 plant species and more than 1000 animals.

To meet its obligations imposed by the Convention, the European Community adopted the *EC Birds Directiv*e (1979) and the *EC Habitats Directive* (1992 – see below). Since the Lisbon Treaty, in force since 1st December 2009, European legislation has been adopted by the European Union.

Bonn Convention

The Convention on the Conservation of Migratory Species of Wild Animals or 'Bonn Convention' was adopted in Bonn, Germany in 1979 and came into force in 1985. Participating states agree to work together to preserve migratory species and their habitats by providing strict protection to species listed in Appendix I of the Convention. It also establishes agreements for the conservation and management of migratory species listed in Appendix II.

In the UK, the requirements of the convention are implemented via the Wildlife & Countryside Act 1981 (as amended), Wildlife (Northern Ireland) Order 1985 (as amended), Nature Conservation and Amenity Lands (Northern Ireland) Order 1985 and the Countryside and Rights of Way Act 2000 (CRoW).

Habitats Directive

The Council Directive 92/43/EEC on the Conservation of Natural Habitats and of Wild Fauna and Fora, or the 'Habitats Directive', is a European Union directive adopted in 1992 in response to the Bern Convention. Its aims are to protect approximately 220 habitats and 1,000 species listed in its several Annexes.

In the UK, the Habitats Directive is transposed into national law via the Conservation of Habitats and Species Regulations 2010 (as amended) in England and Wales, and via the Conservation (Natural Habitats, &c) Regulations (Northern Ireland) 1995 (as amended) in Northern Ireland.

Birds Directive

The EC Directive on the Conservation of Wild Birds (791409/EEC) or 'Birds Directive' was introduced to achieve favourable conservation status of all wild bird species across their distribution range. In this context, the most important provision is the identification and classification of Special Protection Areas (SPAs) for rare or vulnerable species listed in Annex 1 of the Directive, as well as for all regularly occurring migratory species, paying particular attention to the protection of wetlands of international importance.



Conservation of Habitats and Species Regulations 2010 (as amended)

Regulations place a duty on the Secretary of State to propose a list of sites which are important for either habitats or species (listed in Annexes I or II of the Habitats Directive respectively) to the European Commission. These sites, if ratified by the European Commission, are then designated as Special Protection Areas (SPAs) within six years. Amendments made in 2012 stipulated that public bodies help preserve, maintain and re-establish habitats for wild birds.

The Regulations also make it an offence to deliberately capture, kill, disturb or trade in the animals listed in Schedule 2, or pick, uproot, destroy, or trade in the plants listed in Schedule 5 - see below:

| Schedule 2 – European Protected Species of Animals | Schedule 5 – European Protected Species of Plants |
|--|--|
| Horseshoe bats Rhinolophidae - all species | Shore dock Rumex rupestris |
| Common bats Vespertilionidae - all species | Killarney fern Trichomanes speciosum |
| Wild cat <i>Felis silvestris</i> | Early gentian Gentianella anglica |
| Dolphins, porpoises and whales <i>Cetacea</i> – all sp. | Lady's-slipper Cypripedium calceolus |
| Dormouse Muscardinus avellanarius | Creeping marshwort Apium repens |
| Pool frog Rana lessonae | Slender naiad <i>Najas flexilis</i> |
| Sand lizard Lacerta agilis | Fen orchid <i>Liparis loeselii</i> |
| Fisher's estuarine moth Gortyna borelii lunata | Floating-leaved water plantain Luronium natans |
| Great crested newt Triturus cristatus | Yellow marsh saxifrage Saxifraga hirculus |
| Otter Lutra lutra | |
| Lesser whirlpool ram's-horn snail Anisus vorticulus | |
| Smooth snake Coronella austriaca | |
| Sturgeon Acipenser sturio | |
| Natterjack toad Epidalea calamita | |
| Marine turtles <i>Caretta caretta, Chelonia mydas, Lepidochelys kempii, Eretmochelys imbricata, Dermochelys coriacea</i> | |

Wildlife & Countryside Act 1981 (as amended)

This is the principal mechanism for the legislative protection of wildlife in the UK. This legislation is the chief means by which the 'Bern Convention' and the Birds Directive are implemented in the UK. Since it was first introduced, the Act has been amended several times.

The Act makes it an offence to (with exception to species listed in Schedule 2) intentionally:



- kill, injure, or take any wild bird;
- take, damage or destroy the nest of any wild bird while that nest is in use; or
- take or destroy an egg of any wild bird.

Or to intentionally do the following to a wild bird listed in Schedule 1:

- disturbs any wild bird while it is building a nest or is in, on or near a nest containing eggs or young; or
- disturbs dependent young of such a bird.

In addition, the Act makes it an offence (subject to exceptions) to:

- intentionally or recklessly kill, injure or take any wild animal listed on Schedule 5;
- interfere with places used for shelter or protection, or intentionally disturbing animals occupying such places; and
- The Act also prohibits certain methods of killing, injuring, or taking wild animals.

Finally, the Act also makes it an offence (subject to exceptions) to:

- intentionally pick, uproot or destroy any wild plant listed in Schedule 8, or any seed or spore attached to any such wild plant;
- unless an authorised person, intentionally uproot any wild plant not included in Schedule 8; or
- sell, offer or expose for sale, or possess (for the purposes of trade), any live or dead wild plant included in Schedule 8, or any part of, or anything derived from, such a plant.

Following all amendments to the Act, Schedule 5 'Animals which are Protected' contains a total of 154 species of animal, including several mammals, reptiles, amphibians, fish and invertebrates. Schedule 8 'Plants which are Protected' of the Act, contains 185 species, including higher plants, bryophytes and fungi and lichens. A comprehensive and up-to-date list of these species can be obtained from the JNCC website.

Part 14 of the Act makes unlawful to plant or otherwise case to grow in the wild any plant which is listed in Part II of Schedule 9.

It is recommended that plant material of these species is disposed of as bio-hazardous waste, and these plants should not be used in planting schemes.

| Schedule 1 - Birds which are protected by special penalties | | | | | |
|---|--------------------------|---------------------------|--------------------------|--|--|
| Avocet | Recurvirostra avosetta | Osprey | Pandion haliaetus | | |
| Bee-eater | Merops apiaster | Owl, Barn | Tyto alba | | |
| Bittern | Botaurus stellaris | Owl, Snowy | Nyctea scandiaca | | |
| Bittern, Little | Ixobrychus minutus | Peregrine | Falco peregrinus | | |
| Bluethroat | Luscinia svecica | Petrel, Leach's | Oceanodroma leucorhoa | | |
| Brambling | Fringilla montifringilla | Phalarope, Red- necked | Phalaropus lobatus | | |



| Bunting, Cirl | Emberiza cirlus | Plover, Kentish | Charadrius alexandrinus |
|--------------------------|----------------------------|-----------------------------|----------------------------|
| Bunting, Lapland | Calcarius lapponicus | Plover, Little Ringed | Charadrius dubius |
| Bunting, Snow | Plectrophenax nivalis | Quail, Common | Coturnix coturnix |
| Buzzard, Honey | Pernis apivorus | Redstart, Black | Phoenicurus ochruros |
| Capercaillie | Tetrao urogallus | Redwing | Turdus iliacus |
| Chough | Pyrrhocorax pyrrhocorax | Rosefinch, Scarlet | Carpodacus erythrinus |
| Corncrake | Crex crex | Ruff | Philomachus pugnax |
| Crake, Spotted | Porzana porzana | Sandpiper, Green | Tringa ochropus |
| Crossbills (all species) | Loxia | Sandpiper, Purple | Calidris maritima |
| Curlew, Stone | Burhinus oedicnemus | Sandpiper, Wood | Tringa glareola |
| Divers (all species) | Gavia | Scaup | Aythya marila |
| Dotterel | Charadrius morinellus | Scoter, Common | Melanitta nigra |
| Duck, Long-tailed | Clangula hyemalis | Scoter, Velvet | Melanitta fusca |
| Eagle, Golden | Aquila chrysaetos | Serin | Serinus serinus |
| Eagle, White-tailed | Haliaetus albicilla | Shorelark | Eremophila alpestris |
| Falcon, Gyr | Falco rusticolus | Shrike, Red-backed | Lanius collurio |
| Fieldfare | Turdus pilaris | Spoonbill | Platalea leucorodia |
| Firecrest | Regulus ignicapillus | Stilt, Black-winged | Himantopus himantopus |
| Garganey | Anas querquedula | Stint, Temminck's | Calidris temminckii |
| Godwit, Black-tailed | Limosa limosa | Swan, Bewick's | Cygnus bewickii |
| Goshawk | Accipiter gentilis | Swan, Whooper | Cygnus cygnus |
| Grebe, Black-necked | Podiceps nigricollis | Tern, Black Chlidonias nige | |
| Grebe, Slavonian | Podiceps auritus | Tern, Little | Sterna albifrons |
| Greenshank | Tringa nebularia | Tern, Roseate | Sterna dougallii |
| Gull, Little | Larus minutus | Tit, Bearded | Panurus biarmicus |



| Gull, Mediterranean | Larus melanocephalus | Tit, Crested | Parus cristatus |
|---|------------------------------|---|---|
| Harriers (all species) | Circus | Treecreeper, Short- toed | Certhia brachydactyla |
| Heron, Purple | Ardea purpurea | Warbler, Cetti's | Cettia cetti |
| Hobby | Falco subbuteo | Warbler, Dartford | Sylvia undata |
| Ноорое | Upupa epops | Warbler, Marsh | Acrocephalus palustris |
| Kingfisher | Alcedo atthis | Warbler, Savi's | Locustella luscinioides |
| Kite, Red | Milvus milvus | Whimbrel | Numenius phaeopus |
| Merlin | Falco columbarius | Woodlark | Lullula arborea |
| Oriole, Golden | Oriolus oriolus | Wryneck | Jynx torquilla |
| Invasive plant species | listed in Schedule 9 | I | |
| Australian swamp stonecrop or New Zealand pygmyweed | Crassula helmsii | Japanese rose | Rosa rugosa |
| Californian red seaweed | Pikea californica | Japanese seaweed | Sargassum muticum |
| Curly waterweed | Lagarosiphon major | Laver seaweeds (except native species) | Porphyra spp |
| Duck potato | Sagittaria latifolia | Parrot's-feather | Myriophyllum aquaticum |
| Entire-leaved cotoneaster | Cotoneaster integrifolius | Perfoliate alexanders | Smyrnium perfoliatum |
| False Virginia creeper | Parthenocissus inserta | Pontic rhododendron | Rhododendron ponticum |
| Fanwort or Carolina water-shield | Cabomba caroliniana | Purple dewplant | Disphyma crassifolium |
| Few-flowered garlic | Allium paradoxum | Red algae | Grateloupia luxurians |
| Floating pennywort | Hydrocotyle ranunculoides | Rhododendron | Rhododendron ponticum × Rhododendron maximum |
| Floating water primrose | Ludwigia peploides | Small-leaved cotoneaster | Cotoneaster microphyllus |



| Giant hogweed | Heracleum mantegazzianum | Three-cornered garlic | Allium triquetrum |
|------------------------------|---|--------------------------------|--|
| Giant kelp | Macrocystis spp. | Variegated yellow archangel | Lamiastrum galeobdolon subsp. argentatum |
| Giant knotweed | Fallopia sachalinensis | Virginia creeper | Parthenocissus quinquefolia |
| Giant rhubarb | Gunnera tinctoria | Wakame | Undaria pinnatifida |
| Giant salvinia | Salvinia molesta | Wall cotoneaster | Cotoneaster horizontalis |
| Green seafingers | Codium fragile | Water fern | Azolla filiculoides |
| Himalayan cotoneaster | Cotoneaster simonsii | Water hyacinth | Eichhornia crassipes |
| Hollyberry cotoneaster | Cotoneaster bullatus | Water lettuce | Pistia stratiotes |
| Hooked asparagus seaweed | Asparagopsis armata | Water primrose | Ludwigia grandiflora |
| Hottentot fig | Carpobrotus edulis | Water primrose | Ludwigia uruguayensis |
| Hybrid knotweed | Fallopia japonica × Fallopia sachalinensis | Waterweeds | Elodea spp. |
| Indian (Himalayan) balsam | Impatiens glandulifera | Yellow azalea | Rhododendron luteum |
| Japanese knotweed | Fallopia japonica | | |

Protection of Badgers Act 1992

The main legislation protecting badgers in England and Wales is the Protection of Badgers Act 1992 (the 1992 Act). Under the 1992 Act it is an offence to: wilfully kill, injure, take or attempt to kill, injure or take a badger; dig for a badger; interfere with a badger sett by, damaging a sett or any part thereof, destroying a sett, obstructing access to a sett, causing a dog to enter a sett or disturbing a badger while occupying a sett.

The 1992 Act defines a badger sett as: "any structure or place which displays signs indicating current use by a badger"



Natural Environment and Rural Communities Act 2006

Section 41 (S41) of this Act requires the Secretary of State to publish a list (in consultation with Natural England) of Habitats and Species which are of Principal Importance for the conservation of biodiversity in England. The S41 list is used to guide decision-makers such as public bodies including local and regional authorities, in implementing their duty under Section 40 of the Natural Environment and Rural Communities (NERC) Act 2006, to have regard to the conservation of biodiversity in England, when carrying out their normal (e.g. planning) functions. The S41 list includes 65 Habitats of Principal Importance and 1,150 Species of Principal Importance.

Hedgerow Regulations 1997

The Hedgerow Regulations were made under Section 97 of the Environment Act 1995 and came into force in 1997. They introduced new arrangements for local planning authorities in England and Wales to protect important hedgerows in the countryside, by controlling their removal through a system of notification. Important hedgerows are defined by complex assessment criteria, which draw on biodiversity features, historical context and the landscape value of the hedgerow.

Birds of Conservation Concern

This is a review of the status of all birds occurring regularly in the United Kingdom. It is regularly updated and is prepared by leading bird conservation organisations, including the British Trust for Ornithology (BTO), Joint Nature Conservation Committee (JNCC) and The Royal Society for the Protection of Birds (RSPB).

The latest report was produced in 2015 (Eaton *et al*, 2015) and identified 67 red list species, 96 amber species, and 81 green species. The criteria are complex, but generally:

- **Red list** species are those that have shown a decline of the breeding population, nonbreeding population or breeding range of more than 50% in the last 25 years.
- Amber list species are those that have shown a decline of the breeding population, nonbreeding population or breeding range of between 25% and 50% in the last 25 years. Species that have a UK breeding population of less than 300 or a non-breeding population of less than 900 individuals are also included, together with those whose 50% of the population is localised in 10 sites or fewer and those whose 20% of the European population is found in the UK.
- **Green list** species are all regularly occurring species that do not qualify under any of the red or amber criteria are green listed

Global IUCN Red List

The International Union for Conservation of Nature (IUCN) Threatened Species was devised to provide a list of those species that are most at risk of becoming extinct globally. It provides taxonomic, conservation status and distribution information about threatened taxa around the globe.

The system catalogues threatened species into groups of varying levels of threat, which are: Extinct (EX), Extinct in the Wild (EW), Critically Endangered (CE), Endangered (EN), Vulnerable (VU), Near Threatened (NT), Least Concern (LC), Data Deficient (DD), Not Evaluated (NE). Criteria for designation into each of the categories is complex, and consider several principles.



Local Biodiversity Action Plan (LBAP)

Local Biodiversity Action Plans (LBAP) identify habitat and species conservation priorities at a local level (typically at the County level), and are usually drawn up by a consortium of local Government organisations and conservation charities.

Some LBAP's may also include Habitat Action Plans (HAP) and/or Species Action Plans (SAP), which are used to guide and inform the local decision making process.

Wild Mammals (Protection) Act 1996

This Act offers protects a form of protection to all wild species of mammals, irrespective of other legislation, and focussed on animal welfare, rather than conservation.

Unless covered by one of the exceptions, a person is guilty of an offence if he mutilates, kicks, beats, nails or otherwise impales, stabs, burns, stones, crushes, drowns, drags or asphyxiates any wild mammal with intent to inflict unnecessary suffering.

It's application is typically restricted to preventing deliberate harm to wildlife (in general) during construction works etc.



Appendix B – Desk Study Data