



**Extended Phase 1 habitat survey**

at the

**Former Shell tank farm, Union Road,  
Oldbury**

**Job/Report No: P327/1 Version Two**

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## **Executive Summary**

1. At the request of Tripos Consulting, and on behalf of their client European Metal Recycling (EMR) Ltd, Land Care Associates Ltd undertook an Extended Phase 1 Habitat Survey at the former Shell tank farm, Union Road, Oldbury (OS Grid Reference: SO 982 908).
2. The survey site is an area of approximately 7.5 hectares comprising a variety of habitats. Scrub is predominant but areas of grassland, immature trees and large patches of hardstanding, with associated brownfield flora, are also present.
3. Four hundred and ninety eight records of protected and notable species have been located within 2km of the site. These include a broad range of faunal and floral species and reflect the proximity of important habitats to the site, including the Gower Branch Canal and the Sheepwash Lane Urban Park LNR.
4. In its present condition the site provides breeding and foraging habitat for a variety of wildlife, particularly bats, invertebrates and birds, and complements the important local sites surrounding the site.
5. It is the opinion of Land Care Associates that prior to any development of the site that bat activity surveys should be undertaken to ascertain whether bats are using the site. It is estimated that two dusk emergence and activity surveys (with a minimum of two bat surveyors) are required to determine if the proposed work will impact on bat species. These surveys should focus on emergence from and entry into the buildings and bat foraging activity across the entire site. Evening emergence and dawn activity surveys should be undertaken between late-April and early-September depending on weather.

6. If any clearance of existing shrubs and trees is necessary work should be undertaken outside the bird breeding season (i.e. between September and March) to avoid disturbing nesting birds.
  
7. To further enhance the site for bats post-development, night flowering 'bat-friendly' plant species should be incorporated into final development plans for the site. Bat boxes, tubes and bricks should also be incorporated to encourage bats to roost on the site and low level lighting should be used wherever possible.
  
8. During construction work any open trenches or hazardous areas, including machinery, should be securely fenced off to prevent badgers (or other wildlife) from injuring themselves.

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# **1. Introduction**

## **1.1. Background**

At the request of Tripos Consulting, and on behalf of their client European Metal Recycling (EMR) Ltd, Land Care Associates Ltd undertook an Extended Phase 1 Habitat Survey at the former Shell tank farm, Union Road, Oldbury (OS Grid Reference: SO 982 908) on Friday 29<sup>th</sup> May 2009.

The aims of the Extended Phase 1 survey were to:

- Undertake a Phase 1 habitat survey providing a record of vegetation and wildlife throughout the site.
- To establish the likely presence of protected species;
- Inform the client of the impact of any proposed work;
- Outline mitigation measures considered necessary; and
- To assist the client to operate within the law.

Information regarding all relevant protected species and the legislation surrounding them is provided in Appendix I.

## **1.2. General site description**

The survey site is a former Shell Oil tank farm, located on Union Road, Oldbury. The site consists of a mixture of habitats including grassland, scrub and immature woodland, as well as large areas of concrete, tarmac and gravel hardstanding with associated brownfield flora. A number of derelict and partially collapsed buildings still remain on site, the largest being two workshop buildings close to the north-east boundary. One of the buildings, a large former office building, has been subjected to a recent extensive fire and all of the buildings have been heavily vandalised.

The site is bounded by a number of watercourses: the River Tame to the south; a short section of the Gower Branch Canal to the west and the Birmingham Mainline Canal, which runs along the north boundary, all of which are designated Wildlife Corridors. The surrounding land use is predominately industrial with residential scattered around, particularly to the west, as well as a large amount of open space, which includes the Sheepwash Lane Urban Park.

See Appendix II for a location plan for the site.

### **1.3. Proposed work**

It is Land Care Associates understanding that the site is to be redeveloped for industrial use, including the processing of metals, plastics and aggregates and the production of electricity.

## **2. Desk Study**

### **2.1. Key Planning Principles**

#### **2.1.1. National Policies**

*Planning Policy Statement (PPS) 9: Biodiversity and Geological Conservation (2005)* sets out planning policies for the protection of biodiversity in the UK. Regional planning bodies and local planning authorities are required to follow certain key principles to ensure that the potential impacts of planning decisions on biodiversity and geological conservation are fully considered.

- (i) Development plan policies and **planning decisions should be based on up-to-date information about the environmental characteristic of their areas.** These characteristics should include the relevant biodiversity and geological resources of the area. In reviewing environmental characteristics local authorities should assess the potential to sustain and enhance those resources.
- (ii) Plan policies should aim to maintain, and enhance, restore or add biodiversity and geological conservation interests. In taking decisions, local planning authorities should ensure that **appropriate weight is attached to designated sites of international, national and local importance; protected species; and to biodiversity and geological interests within the wider environment.**
- (iii) Plan policies on the form and location of development should take a strategic approach to the conservation, enhancement and restoration of biodiversity and geology, and recognise the contributions that sites, areas and features, both individually and in combination, make to conserving these resources.
- (iv) Plan policies should **promote opportunities for the incorporation of beneficial biodiversity and geological features within the design of development.**

- (v) Development proposals where the principal objective is to conserve or enhance biodiversity and geological conservation interests should be permitted.
- (vi) **The aim of planning decisions should be to prevent harm to biodiversity and geological conservation interests.** Where granting planning permission would result in significant harm to those interests, local planning authorities will need to be satisfied that the development cannot reasonably be located on any alternative sites that would result in less or no harm. In the absence of any such alternatives, local planning authorities should ensure that, before planning permission is granted, adequate mitigation measures are put in place. Where a planning decision would result in significant harm to biodiversity and geological interests which cannot be prevented or adequately mitigated against, appropriate compensation measures should be sought. If that significant harm cannot be prevented, adequately mitigated against, or compensated for, then planning permission should be refused.

### 2.1.2. Regional Policies

Birmingham City Council's *Nature Conservation Strategy for Birmingham* (March 1997) provides details of the habitats and species that are important considerations for any development proposals as well as further guidance on evaluating nature conservation issues within developments.

### 2.2. Pre-existing information

Information was requested from EcoRecord, the Birmingham and Black Country Biological Records Centre, Staffordshire Ecological Records and gathered from other resources available regarding the presence of any protected species and statutory and non-statutory designated conservation sites within 2km of the site (SO 984 901) following the guidance in *Planning Policy Statement 9: Biodiversity and Geological Conservation* (2005).



The data search covers the following areas:

- Local nature reserves and other statutory and non-statutory sites;
- Protected species
- Species of particular note;

### **2.3. Statutory nature conservation designations**

Statutory designations include Sites of Special Scientific Interest (SSSIs), which are sites designated for their floral, faunal, geological, or physiographical features and notified by Natural England; and Local Nature Reserves (LNRs), which are designated for educational and amenity purposes by the local planning authority in liaison with Natural England. International designations include Ramsar sites (wetland wildfowl sites), Special Protection Areas (SPAs) and Special Areas of Conservation (SACs) and are strictly protected sites designated under the *EC Habitats Directive, 1992* (as amended).

Within 2km of the site there is currently one LNR, Sheepwash Lane Urban Park, to the north-west of the site.

### **2.4. Non-statutory nature conservation designations**

These sites include:

- Sites of Importance for Nature Conservation (SINCs), which are designated important sites within Birmingham and the Black Country, identified by the SINC partnership led by Natural England;
- Sites of Local Importance for Nature Conservation (SLINCs), which are designated sites of borough importance, identified by the relevant local authority and the Wildlife Trust and;

- Wildlife Corridors identified by the Nature Conservation Strategy for Birmingham and the Black Country.

Within 2km of the site there are six Sites of Importance for Nature Conservation and six sites of Local Importance for Wildlife Conservation, spread all round the site. In addition there are several areas that are recognised as wildlife corridors, important because they act as links within the landscape between areas of nature conservation value. These include the Birmingham Mainline Canal, Gower Branch Canal and River Tame running alongside the site.

Further details of sites and their respective locations can be found in Appendix III.

## 2.5. Protected species records

Just short of five hundred protected species have been recorded within 2km of the site. Full details of these species, their location and date of record can be found in Appendix IV.

The species listed include those protected by European and UK legislation; species of other conservation concern, particularly birds on the British Trust for Ornithology's Red and Amber Lists; and species that have action plans under the local BAP, the *Birmingham and Black Country Biodiversity Action Plan (2000)*, as listed in Table 1.

**Table 1.** Species with action plans in the Birmingham and Black Country BAP

Scientific Name	Common Name
<i>Alauda arvensis</i>	Skylark
<i>Arvicola terrestris</i>	Water Vole
<i>Austropotamobius pallipes</i>	Freshwater White-clawed Crayfish
<i>Bufo bufo</i>	Common Toad
<i>Callophrys rubi</i>	Green Hairstreak
<i>Charadrius dubius</i>	Little Ringed Plover
<i>Chiroptera sp.</i>	Bats
<i>Delichon urbica</i>	House Martin
<i>Erynnis tages</i>	Dingy Skipper
<i>Falco tinnunculus</i>	Kestrel

<i>Gallinago gallinago</i>	Snipe
<i>Hyacinthoides non-scripta</i>	Bluebell
<i>Lasiommata megera</i>	Wall Brown
<i>Lepus europaeus</i>	Brown Hare
<i>Luronium natans</i>	Floating Water Plantain
<i>Meles meles</i>	Badger
<i>Orchidaceae</i> sp.	Orchids
<i>Passer montanus</i>	Tree Sparrow
<i>Perdix perdix</i>	Grey Partridge
<i>Phoenicurus ochruros</i>	Black Redstart
<i>Rana temporaria</i>	Common Frog
<i>Triturus cristatus</i>	Great Crested Newt
<i>Triturus vulgaris</i>	Smooth Newt
<i>Turdus philomelos</i>	Song Thrush
<i>Vaccinium</i> sp.	Bilberries

Most of the records are concentrated from the designated sites to the west of the site and the wildlife corridors, reflecting the variety of habitats in close proximity to the site. There are many records of bird species from Clayhanger Village, just to the west of the site, and one record from the site itself. This is of a Dingy Skipper (*Erynnis tages*), a local BAP species, recorded in 1999.

The following is a summary of the records received, concentrating on those protected species most likely to be impacted by any development.

### 2.5.1. Amphibians

There are records for three species: Common Toad (*Bufo bufo*), Common Frog (*Rana temporaria*) and Smooth Newt (*Triturus vulgaris*).

### 2.5.2. Badgers

Three records of Badgers were received, two from directly north of the site in Sheepwash Lane Urban Park, and the most recent from approximately two kilometres to the south.

### 2.5.3. Bats

Four records for unidentified Pipistrelle species are scattered around the search area. All of these are incidental records.

#### **2.5.4. Birds**

A large number of bird species listed on the BTO's Red and Amber Lists (Gregory *et al.*, 2002) have been recorded from the area. These include species associated with a variety of habitats such as waterways, woodland, scrub and farmland, as well as more familiar urban birds such as House Sparrow (*Passer domesticus*) and Black Redstart (*Phoenicurus ochruros*).

#### **2.5.5. Mammals**

Two species of other than Badgers and Water Voles have been recorded. There are two records for both Hedgehog (*Erinaceus europaeus*) and Field Vole (*Microtus agrestis*).

#### **2.5.6. Water Voles**

There are seventeen records of Water Vole (*Arvicola terrestris*) from a variety of sites, predominately to the north and west of site. They include confirmed records on the Gower Branch Canal and the adjacent Birmingham Mainline Canal.

### **3. Methodology**

#### **3.1. Site access**

All areas of the site were accessible at the time of surveying.

#### **3.2. Date of surveys**

Tom Oliver and Mike Poulton carried out the survey on Friday 29<sup>th</sup> May 2009 from approximately 14:00 until 17:00.

#### **3.3. Weather conditions during the survey**

The weather conditions on arrival were hot and sunny, with zero cloud cover. The temperature was 24.8°C, with 48.5% humidity and a wind speed of 3.6 mph.

#### **3.4. Survey methodology**

##### *Extended Phase 1 Habitat Survey*

The area of the site to be surveyed was subject to an initial walkover to establish the boundaries of the survey. An Extended Phase 1 survey was conducted using the methodology recommended by the *Institute of Environmental Assessment* (1995). During the mapping procedure all dominant species of flora were identified along with many other sub dominant species. Animal species were identified on an opportunistic basis. In addition, all observed faunal field signs were identified and recorded. At all times general habitat assessments were made for the possibility of the site to support protected species.

### 3.5. Survey Constraints

#### *Extended Phase 1 Habitat Survey*

This survey provides information relating to the habitats found within the site perimeter as well as possible protected species using the site. It was not possible to absolutely confirm the presence/absence of all protected species. In order to provide definitive information relating to these factors, several visits to the site incorporating many survey techniques at different times of year are usually required.

Plant species were recorded and a list compiled with nomenclature based on Stace (1997). At the time of year the survey was undertaken some plant species are not in flower, and it is possible that species present on site were not recorded on the day.

This survey cannot, therefore, be considered to provide a wholly comprehensive account of the ecological interest of the site and it should be noted that this report does not constitute an Ecological Impact Assessment. The survey does, however, provide a “snapshot” of the ecological interest present on the day of the survey visit.

The site has also been assessed for its potential to support species not seen during the survey, especially those protected under the *Wildlife & Countryside Act, 1981* and the *Conservation (Natural Habitats, &c.) Regulations 1994*, as well as those given extra protection under the *Countryside & Rights of Way Act 2000*.

## **4. Results**

### **4.1. Habitat description and assessment**

For the purpose of the survey the different habitat units present were identified and mapped. This information has been used to create a GIS-based map (see Appendix V). Although the map shows distinct boundaries for each habitat it should be noted that, on site, the habitats graded into one another and varying densities of scrub were present throughout. A full list of the species recorded during the survey is provided in Appendix VII.

#### **4.1.1 Scrub**

Much of the site was covered by naturally colonising scrub vegetation. This consisted of a variety of semi-mature or young tree and shrub species. The most abundant species were Butterfly-bush (*Buddleja davidii*) and Broom (*Cytisus scoparius*). Other species present included Dog Rose (*Rosa canina*), Silver Birch (*Betula pendula*), Hawthorn (*Crataegus monogyna*) and Goat Willow (*Salix caprea*).

Between the denser, more mature, scrub areas there was lighter, scattered scrub consisting of a mix of grassland species with many of the common ruderal plants e.g. Broad-leaved Dock (*Rumex obtusifolius*), Common Nettle (*Urtica dioica*), Colt's-foot (*Tussilago farfara*) and Creeping Thistle (*Cirsium arvense*). The ground flora beneath the denser scrub was dominated by Bramble (*Rubus fruticosus* agg.) with little grassland present.

#### **4.1.2. Immature woodland**

Along the north boundary of site, running parallel to the Birmingham Level of the Wolverhampton Canal, were two slightly elevated, disused railway tracks. This narrow section of habitat is dominated by young Silver Birch, Goat Willow and Buddleia. The ground flora is particularly sparse consisting mainly of Rosebay Willowherb (*Chamerion angustifolium*) and Hawkweed (*Hieracium* sp.).

#### 4.1.3. Grassland

Areas of neutral grassland were present in the south and west. These contained species that have recolonised more recently cleared areas or are remnants of previous 'landscape' planting on the site. As with the scrub much of the grassland appeared to have colonised naturally, and will not have been subject to artificial nutrient enrichment or maintenance operations. Rough Meadow-grass (*Poa trivialis*), False Oat-grass (*Arrhenatherum elatius*) and Perennial Rye-grass (*Lolium perenne*) are particularly common, but Red Fescue (*Festuca rubra*), Cock's-foot (*Dactylis glomerata*), Barren Brome (*Anisantha sterilis*), Yorkshire-fog (*Holcus lanatus*), Tufted Hair-grass (*Deschampsia cespitosa*) and Creeping Bent (*Agrostis stolonifera*) were all frequent amongst other grass species. A variety of herb species were present amongst the grasses. As well as taller species which thrive in disturbed soils e.g. Spear Thistle (*Cirsium vulgare*), Oxeye Daisy (*Leucanthemum vulgare*), Meadow Buttercup (*Ranunculus acris*), Red Campion (*Silene dioica*), Bladder Campion (*Silene vulgaris*) and Wild Carrot (*Daucus carota*), there were low-growing species that require a short sward to avoid competition e.g. Mouse-ear-hawkweed (*Pilosella officinarum*), Red Clover (*Trifolium pratense*), Shining Crane's-bill (*Geranium lucidum*), Black Medick (*Medicago lupulina*) and Lesser Trefoil (*Trifolium dubium*).

#### 4.1.4. Hardstanding

The concrete remains of building foundations, as well as, gravel patches and tarmac of old car parking areas and access roads are particularly prevalent on the eastern side of site, but occur across the development area. The condition of the hardstanding has deteriorated since the site became derelict and has been colonised by perennials and annuals requiring bare ground conditions. Many species are exploiting the cracks between concrete slabs. Species that were particularly frequent here were Common Mouse-ear (*Cerastium fontanum*), Sticky Mouse-ear (*Cerastium glomeratum*), Imperforate St. John's-wort (*Hypericum maculatum*), Common Toadflax (*Linaria vulgaris*), Oxford Ragwort (*Senecio squalidus*), Field Horsetail (*Equisetum arvense*), Wormwood (*Artemisia absinthium*), Mugwort (*Artemisia vulgaris*), Herb Robert (*Geranium robertianum*) and Ribwort Plantain (*Plantago lanceolata*).



The large patch of well drained gravel was located to the east of the main entrance to site. This habitat contains a similar brownfield vegetation assemblage to the rest of site but extremely stressed, as well as some other less common species including: Blue Fleabane (*Erigeron acer*) and Squirreltail Fescue (*Vulpia bromoides*).

#### **4.1.5. Landscape planting**

Around the former site entrance, and elsewhere around the boundaries of site, are a number of ornamental plant species, some of which have begun to encroach further into site or seed to other areas. Red Valerian (*Centranthus ruber*) and Italian Alder (*Alnus cordata*) have now both seeded to other areas across site. A number of other species still reside in the original borders including: Red-hot-poker (*Kniphofia uvaria*), Pampus-grass (*Cortaderia selloana*), Entire-leaved Cotoneaster (*Cotoneaster integrifolius*), Bullate Cotoneaster (*Cotoneaster rehderi*) and Bearberry Cotoneaster (*Cotoneaster dammeri*). The latter of these species, the Bearberry, has encroached onto the western car park and now provides an excellent food resource for invertebrates, particularly bees.

#### **4.1.6. Embankments**

A number of spoil embankments are located in front of former entrances to site and are a source of some different species. Most of the species present were those widespread and common species associated with disturbed ground, waste places and brownfield sites: Common Poppy (*Papaver rhoeas*), Scentless Mayweed (*Tripleurospermum inodorum*), Purple Toadflax (*Linaria purpurea*) and Prickly Lettuce (*Lactuca serriola*). The more notable species present were those non-natives or with a garden origin: Snow-in-summer (*Cerastium tomentosum*).

#### **4.1.7. Japanese Knotweed**

A number of stands of Japanese Knotweed (*Fallopia japonica*), a highly invasive species, have been identified on site. Located close to the western boundary of site, near the River Tame, in their present condition they are manageable but left untreated they could spread right across site.

## **4.2. Fauna**

### **4.2.1. Amphibians**

No direct evidence of any amphibians was observed at the site.

### **4.2.2. Badgers**

Field signs searched for included active or inactive setts, badger pathways, badger dung pits, badger hair, discolouring of and damage to fencing, signs of badger foraging and feeding remains. No direct evidence of badgers using the site was found.

### **4.2.3. Bats**

No direct evidence of bats was observed at the site. The derelict buildings on site did not have any obvious roosting or resting places suitable for bats. although, a number of buildings were inaccessible due to health and safety risks but they may still offer low bat roost potential. The site as a whole had good potential foraging habitat.

### **4.2.4. Birds**

Several incidental bird records were encountered during the survey. A full list of the species is provided in Appendix VII.

The habitats on site, as well as on adjacent sites, provides suitable breeding and foraging areas for a variety of species and this was borne out by observations during the survey. Notable records included Whitethroat (*Sylvia communis*), an amber listed species that prefers scrub habitats.

### **4.2.5. Reptiles**

No direct evidence of reptiles utilising the site was obtained during the survey although there is suitable habitat on site.

### **4.2.6. Water Voles**

Although the site does lie adjacent to a number of stretches of water containing historical records of Water Voles (*Arvicola terrestris*), the site boundary stops well

short of the water bodies. Despite this, the boundaries, and other suitable areas, were still searched with no direct evidence of Water Voles being obtained during the survey.

#### **4.2.7. Invertebrates**

The survey was conducted in warm, sunny conditions and, consequently, Butterflies and Bumble Bees were frequently observed. It would be expected that the variety of habitats on site are suitable for many invertebrate groups. A full list of the species observed during the survey is provided in Appendix VII.

## **5. Impacts and recommendations**

### **5.1. Flora**

Over one hundred and thirty species were recorded during the survey, with only Blue Fleabane (*Erigeron acer*) a notable species for the Birmingham region. The dominant habitat is scrub and naturally occurring grassland. The grassland habitat on site appears to fall under two different specific action plans within the Birmingham and Black Country Biodiversity Action Plan (BAP). One of the key objectives is to promote the importance of these types of habitat because they can have high species diversity; however, these types of habitat are not uncommon within Birmingham and the Black Country and are representative of a mature brownfield site.

It should be noted that because scrub is often an intermediate habitat between grassland and woodland, the site would naturally develop as woodland over time without any management. In this case the site is probably at its most valuable for wildlife in its present condition. If any trees or scrub are to be cleared work must be done outside the bird breeding season (March to September).

No further surveys or recommendations are made for the floral component of the site.

### **5.2. Fauna**

#### **5.2.1. Amphibians**

The site offers limited terrestrial habitat for amphibians. However; the desk study did not show any records for Great Crested Newts (*Triturus cristatus*) within 2km of the site. Therefore, it is Land Care Associates' opinion that a Great Crested Newt survey is **not** required.

#### **5.2.2. Badgers**

No direct evidence of badgers using the site was found. Nevertheless, it is recommended that during the development, **any open trenches or hazardous**

**areas, including machinery, should be securely fenced off to prevent badgers (or other wildlife) from injuring themselves.** If any badger setts are identified during the work, activities should be stopped and a qualified ecologist consulted.

See Appendix I for further information on the protected status of badgers.

### **5.2.3. Bats**

#### *Roosting and resting places*

The current buildings on site are considered to offer limited roosting opportunities for bats, but may provide potential resting areas during feeding sessions. As a consequence it is recommended that prior to any development of the site that bat activity surveys are undertaken to establish whether bats are using the buildings for roosting and resting, and whether the site as a whole has any commuting or foraging activity.

#### *Foraging activity*

*Planning Policy Statement 9: Biodiversity and Geological Conservation (2005)* aims to conserve, enhance and restore the diversity of England's wildlife by sustaining and improving the quality of natural habitat. The site offers good foraging potential for local bat populations in its present state with the adjacent habitats offering high potential for commuting and foraging bats.

#### *Additional information*

As detailed in *Planning Policy Statement 9: Biodiversity and Geological Conservation (2005)*, one of the Government's objectives for planning is to '*conserve, enhance and restore the diversity of England's wildlife.*' The desk study showed a few bat records within the area. Nevertheless potentially suitable habitats are present and, therefore, it is recommended that a strategy to encourage bats is incorporated into the final development plan for the site. If landscaping alterations are to be planned within the development then bat friendly planting schemes should be incorporated within these plans (a list of suitable 'bat-friendly' plant species has been added in Appendix VIII) and low-level lighting should be used throughout the site to encourage bats to utilise the site for roosting.

**5.2.4. Birds**

The site does offer breeding and foraging habitats for birds. Since only one notable species was encountered during the survey, no further surveys for birds are recommended at this time.

**5.2.5. Mammals**

No further surveys for mammals are recommended at this time. No evidence of utilisation of the site by Water Voles (*Arvicola terrestris*) was found during the survey. If they are present, the retention of a buffer zone around the edge of site, of at least five metres wide, would protect their habitat.

**5.2.6. Reptiles**

Suitable habitat for reptiles is present on site but the desk study showed no records, and it is unclear where reptiles would colonise from. No further surveys for reptiles are recommended at this time.

## **6. Summary of recommendations**

During the extended Phase I Habitat Survey at the former Shell tank farm on Union Road, Oldbury, it was noted that a number of different habitats were present on site. The areas with the most potential for wildlife and ecological value were the: open grassland for invertebrates and the scrub for nesting birds. The site as a whole, and the diversity within it, also makes for good foraging habitat for bats.

- **R(1)** It is the opinion of Land Care Associates that prior to any development, bat activity surveys should be undertaken to ascertain whether bats are using the site. It is estimated that two dusk emergence and activity surveys (with a minimum of two bat surveyors) are required to determine if the proposed work will impact on bat species. These surveys should focus on emergence from and entry into the buildings and bat foraging activity across the entire site. Evening emergence and dawn activity surveys should be undertaken between late-April and early-September depending on weather.
- **R(2)** If any clearance of existing shrubs and trees is necessary work should be undertaken outside the bird breeding season (i.e. between September and March) to avoid disturbing nesting birds.
- **R(3)** To further enhance the site for bats post-development, night flowering 'bat-friendly' plant species should be incorporated into final development plans for the site. Bat boxes, tubes and bricks should also be incorporated to encourage bats to roost on the site and low level lighting should be used wherever possible.
- **R(4)** During construction work any open trenches or hazardous areas, including machinery, should be securely fenced off to prevent badgers (or other wildlife) from injuring themselves.

## **7. References**

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## **8. Appendix**

<b>Appendix I</b>	Protected species information
<b>Appendix II</b>	Location plan
<b>Appendix III</b>	Location of statutory and non-statutory sites within 2km of site
<b>Appendix IV</b>	Protected and notable species within 2km of the survey site
<b>Appendix V</b>	Habitat plan
<b>Appendix VI</b>	Species list
<b>Appendix VII</b>	Site photographs
<b>Appendix VIII</b>	Native 'bat-friendly' plants

## **Appendix I**

### **Relevant protected species legislation**

(This is for information purposes only and further legal advice should be sought)

#### **1. Bats**

Although bats occur throughout Britain, their numbers have declined dramatically over recent years. It is as a result of these declines that all 17 species of British bat are protected by UK and European legislation. In particular, there is a high risk that certain old rural buildings and structures, such as listed buildings and traditional farm buildings, will support roosting bats for at least part of the year. These can be affected by redevelopment, restoration works or routine maintenance that results in disturbance or the loss of cracks, crevices and other potential roost sites.

All species of British bats and their roosts are fully protected under Schedule 5 of the *Wildlife & Countryside Act 1981* (as amended). Additional protection is offered under Schedule 2 of the *Conservation (Natural Habitats, &c.) Regulations 1994*, which defines “*European protected species of animals*”. Under currently accepted interpretations of these two items of legislation, as outlined in *the Bat Workers’ Manual* (2004), a bat roost is ‘*any structure or place which any wild animal ... uses for shelter or protection.*’

Bats often occupy different roost sites at varying times of the year; what is suitable as a summer roost may not be as suitable for hibernation due to the variation in temperatures, for instance. Females often occupy maternity roosts when giving birth and return to the communal roost when the young are partly grown. Individual bats may move their roost site dependent on weather conditions. Since bats tend to re-use the same roosts, legal opinion is that the roost is protected whether or not the bats are present at the time.

A key principle of *Planning Policy Statement 9* (ODPM, 2005) is that ‘*planning decisions are based upon up-to-date information about the environmental characteristics of their areas*’ and that ‘*local authorities should assess the potential to sustain and enhance those resources.*’ Paragraph 14 of *Planning Policy Statement*

9 also states that '*Development proposals provide many opportunities for building-in beneficial biodiversity or geological features as part of good design. When considering proposals, local planning authorities should maximise such opportunities in and around developments, using planning obligations where appropriate.*' Therefore, where developments requiring planning permission may affect protected species, such as bats, it is essential that appropriate surveys are conducted to ensure that they are protected from the adverse effects of development.

In the case of development work, activities involving the capture, disturbance and/or relocation of bats are subject to a licence from the Department of the Environment, Food and Rural Affairs (DEFRA). Such licences are only granted:

*"... for the purpose of preserving public health or public safety or other imperative reasons of overriding public interest including those of a social or economic nature and beneficial consequences of primary importance for the environment, to allow people to carry out activities which would otherwise be illegal. Applicants must be able to demonstrate that they have a suitable amount of expertise to achieve the objectives of the proposed work".*

Under the *Conservation (Natural Habitats &c.) Regulations 1994*, licences can only be issued if DEFRA are satisfied that:

- there is no satisfactory alternative; and
- the action authorised will not be detrimental to the maintenance of the population of the species at a favourable conservation status in their natural range.

Undertaking work to a bat roost without following appropriate recommendations from English Nature and/or DEFRA could lead to prosecution resulting in imprisonment, fines of up to £5000 per bat and confiscation of vehicles/equipment used.

## 2. Birds

The *Wildlife & Countryside Act 1981* (as amended) makes it an offence to “take, damage or destroy the nest of any wild bird while it is in use or being built” and to “take or destroy the eggs of any wild bird”.

Under The Wildlife & Countryside Act 1981, all wild birds, their nests and eggs are protected by law, with some rare species afforded special protection. There are however, obvious exceptions for wildfowl, game birds and some pest species.

Though these laws were originally developed to prevent egg stealing and cruelty to wild birds, its modern interpretation also relates to the activities of land managers and developers. In summary, it is an offence to:

- Recklessly kill, injure or take any wild bird;
- Take or recklessly damage or destroy the nest of any wild bird while it is in use or is being built;
- Take or recklessly destroy the egg of any wild bird; and
- Recklessly disturb any wild bird listed on Schedule 1 of the Act whilst it is nest building or is at (or near) a nest with eggs or young, or disturb the young of such a bird.

However, it is not illegal to destroy a bird, nest or egg if it can be proven that such an action was the incidental result of a lawful operation and could not reasonably have been avoided. Ignorance of the law is no defence though.

To avoid committing an offence under this Act it is advisable to take into account the following actions:

- Programme site clearance operations outside the breeding bird season (generally March to July though differing weather patterns can alter this). This would include the removal of all tree, scrub and dense vegetation cover;

- Undertake surveys of areas that could not be cleared but could support breeding birds, such as sand faces with sand martins, quarry ledges with peregrine falcon etc; and
- Be aware of the possibility of Schedule 1 bird species in the vicinity of the development and monitor populations if they are likely to be susceptible to disturbance

### 3. Reptiles

There are different levels of protection afforded to UK reptiles through the *Wildlife and Countryside Act 1981*; this results from different parts of Section 9 of the Act applying to the different species (as specified in Schedule 5).

**Full protection:** This applies to the sand lizard and smooth snake. It is prohibited to undertake the intentional killing, injuring or taking (capture. etc); possession; intentional disturbance whilst occupying a 'place used for shelter or protection' and destruction of these places; sale, barter. exchange. transporting for sale and advertising to sell or to buy.

**Protection against killing, injuring and sale, etc:** This level of protection applies to the four widespread species of reptile, namely the common lizard, slow-worm, grass snake and adder. It is prohibited to undertake the intentional killing and injuring and trade (i.e. sale, barter, exchange, transporting for sale and advertising to sell or to buy). It is not an offence under the Wildlife and Countryside Act 1981 to possess these animals.

### 4. Badgers (*Meles meles*)

Badgers and their setts are protected under the *Protection of Badgers Act 1992*, which makes it illegal for any person to kill, injure or take a badger. It is also an offence to destroy, damage or obstruct a badger's sett, or to disturb animals whilst

within a sett. The *Act* defines a sett as ‘any structure or place which displays signs of current use by a badger.’ Setts are defined by English Nature (1995) as ‘usually underground tunnel systems providing shelter for badgers, but may include other structures used by badgers such as hay bales, drainage culverts, or cellars.’ A commonly accepted working definition for ‘current use’ of a sett is considered to be a sett that has been in active use by a badger within the previous 12 months.

The likelihood of disturbing a badger sett, or adversely affecting badgers’ foraging territory or links between them, or significantly increasing the likelihood of road casualties amongst badger populations, are capable of being material considerations in planning decisions (PPS 9, 2005).

### **Definitions of badger setts**

The detail below is based on that described in *Surveying Badgers* (Harris *et al.*, 1989) and the *Species Conservation Handbook* (English Nature, 1995).

A Badger Sett is defined in law as ‘any structure or place which displays signs indicating current use by a badger’. ‘Current use’ is generally interpreted as denoting usage within 12 months of the time of survey, whether or not such usage is limited to particular seasons or by other environmental factors.

Badgers use different kinds of setts for different purposes and at different times of year. The set categories adopted for this assessment follow nationally recognised definitions and include:

**Main setts** are normally in continuous use and are usually used for breeding. They generally include a large number of entrance holes with significant amounts of earth spoil piled around. The holes and surrounding area generally show strong signs of current active use, including well used paths and sett entrances.

**Annexe setts** are usually found reasonably close to a main sett and are clearly linked to the nearby main sett by well-worn paths. They usually have multiple holes, only some of which may appear active but some holes usually show signs of recent

activity at most times of year. At larger annex setts there is likely to be a considerable accumulation of spoil around the sett area.

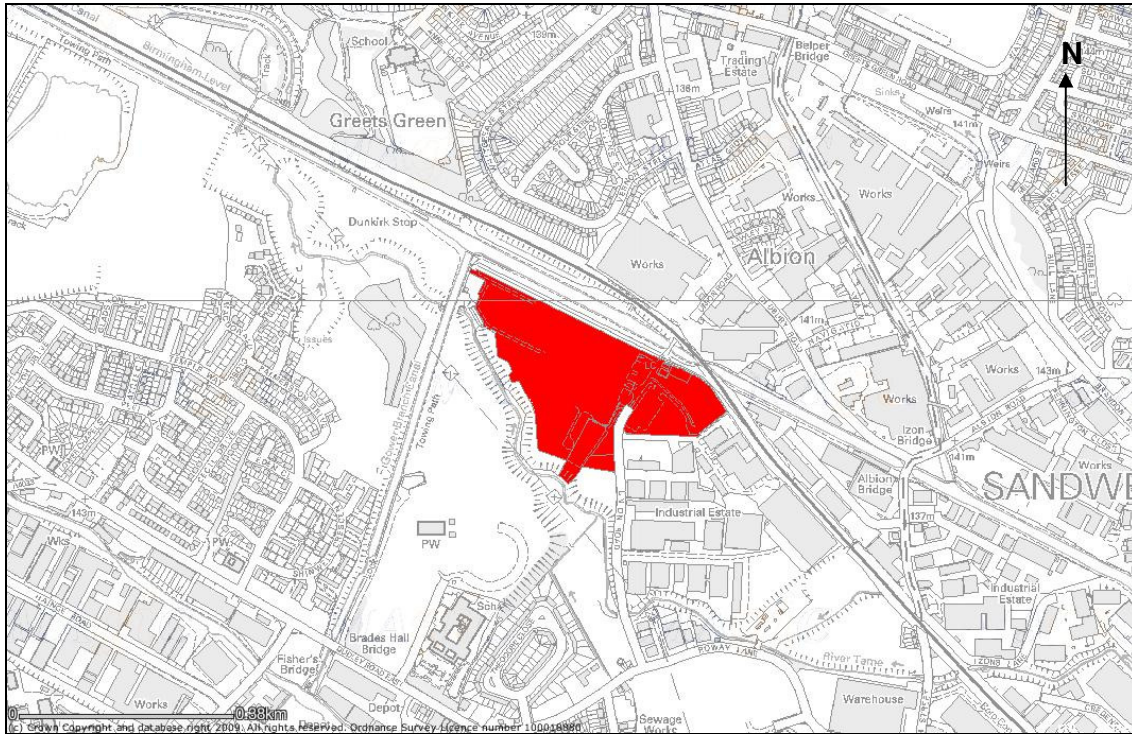
**Subsidiary setts** only have a small number of holes (usually less than 5) at some distance from a main sett and often without obvious linking paths. The holes can be variable in signs of usage and are often much less consistently in use than those of main or annex setts. Generally, however, they do show signs of recent use.

**Outlier setts** usually consist of a single or double hole but may occasionally have more. Generally, they have only a small accumulation of spoil at the entrance and are not clearly linked to other setts by worn paths. They usually only used sporadically and may show little evidence of very recent use. Outliers may be used by foxes or rabbits when not in use.



## Appendix II

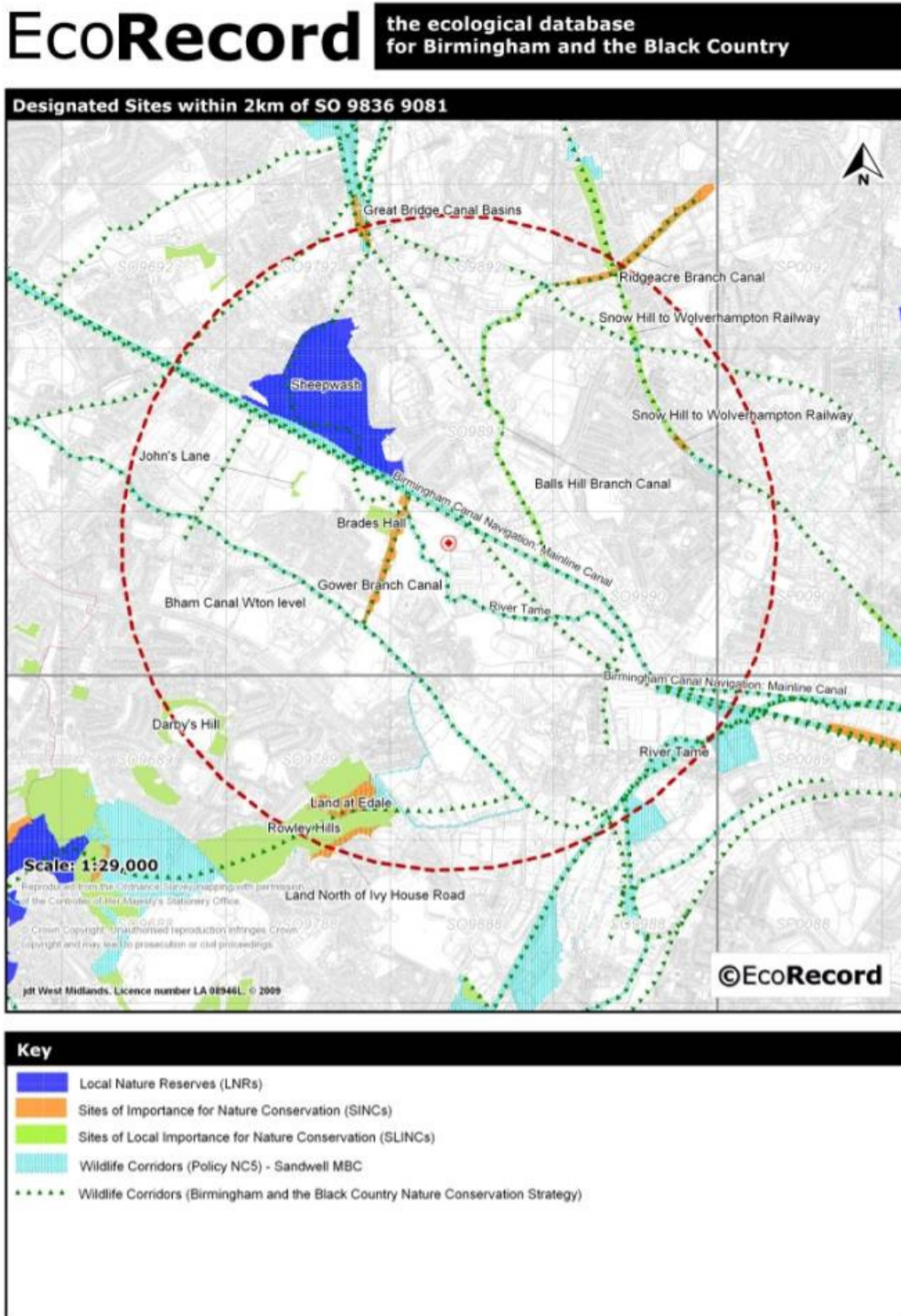
### Location plan of the site at the former Shell tank farm, Union Road, Oldbury



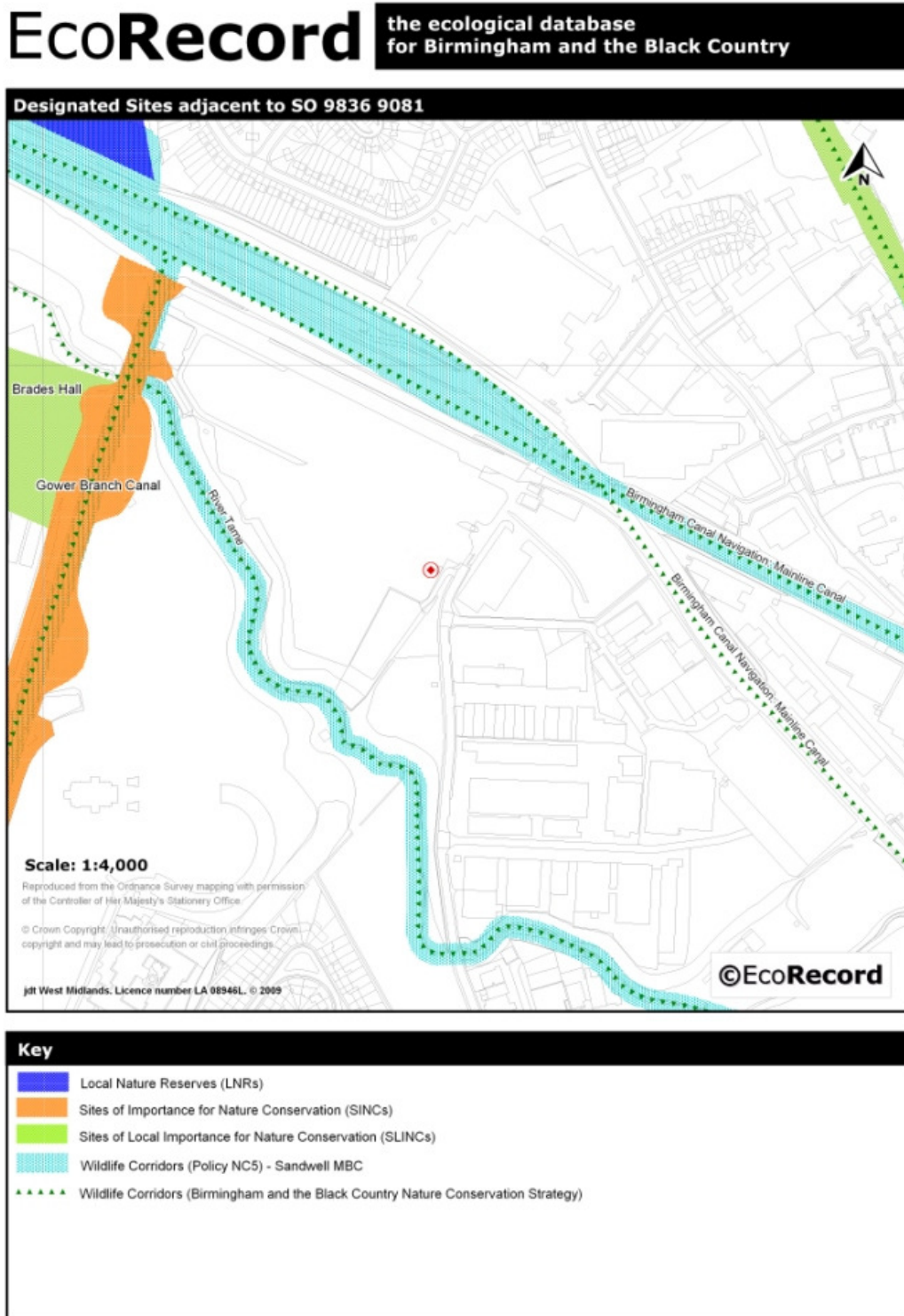
[www.magic.gov.uk](http://www.magic.gov.uk)

## Appendix III

**Location and details of statutory and non-statutory sites within 2km of the site at the former Shell tank farm, Union Road, Oldbury**



**Location and details of statutory and non-statutory sites adjacent to the site at the former Shell tank farm, Union Road, Oldbury**



## Appendix IV

### Protected and notable species records within 2km of the site at the former Shell tank farm, Union Road, Oldbury (provided by EcoRecord)

Scientific Name	Common Name	Abundance	Grid Ref	Main Site Name	Date
Alauda arvensis	Skylark	present	S0977894	Rowley Hills	09-Jun-75
Alauda arvensis	Skylark	present	S0977894	Rowley Hills	19-May-75
Alauda arvensis	Skylark	present	S0977894	Rowley Hills	09-Jun-75
Alauda arvensis	Skylark	present	S0977894	Rowley Hills	19-May-75
Alauda arvensis	Skylark		S0975913	Rattlechain Tip	Winter 1983
Alauda arvensis	Skylark	present	S098119080	Brades Hall	12-May-86
Alauda arvensis	Skylark	present	S096959120	Dudley Canal Complex	16-May-86
Alauda arvensis	Skylark	present	S098209045	John's Lane Sewage Works	21-Apr-86
Alauda arvensis	Skylark	present	S0975890	Rowley Hills	01 JUL 1986 - 31 AUG 1986
Alauda arvensis	Skylark	present	S097458900	Rowley Hills	02-Jul-86
Alauda arvensis	Skylark	present	S097759165	Sheepwash Lane Urban Park	13-May-86
Alauda arvensis	Skylark	present	S097158950	SO98NE 1:10,000 Map	10-Nov-86
Alauda arvensis	Skylark	present	S0995900	Birmingham Canal Complex	01-Oct-87
Alauda arvensis	Skylark	present	S0981907	Brades Hall	08-Jun-87
Alauda arvensis	Skylark	present	S0982927	Land off Brickhouse Lane	29-Jun-87
Alauda arvensis	Skylark	present	S0975890	Rowley Hills	22-Jun-87
Alauda arvensis	Skylark	present	S0975890	Rowley Hills	19-May-87
Alauda arvensis	Skylark	present	S0995915	Snow Hill to Wolverhampton Railway	04-Aug-87
Alcedo atthis	Kingfisher	present	S0985895	Birmingham Canal Complex	22-Sep-87
Anas clypeata	Shoveler	present	S09791	Sheepwash Lane Urban Park	OCT 1998 - MAY 1999
Anas crecca	Teal		S0975913	Rattlechain Tip	27-Mar-85
Anas crecca	Teal	present	S09791	Sheepwash Lane Urban Park	OCT 1998 - MAY 1999
Anthus pratensis	Meadow Pipit	present	S0977894	Rowley Hills	19-May-75
Anthus pratensis	Meadow Pipit	present	S0977894	Rowley Hills	09-Jun-75
Anthus pratensis	Meadow Pipit	present	S0977894	Rowley Hills	19-May-75
Anthus pratensis	Meadow Pipit	present	S0977894	Rowley Hills	09-Jun-75
Anthus pratensis	Meadow Pipit	present	S0973916	Sheepwash Lane Urban Park	23-Jun-80
Anthus pratensis	Meadow Pipit		S0975913	Rattlechain Tip	27-Mar-85
Anthus pratensis	Meadow Pipit	present	S096719008	Darby's Hill Quarry	15-Apr-86
Anthus pratensis	Meadow Pipit	present	S0975890	Rowley Hills	01 JUL 1986 - 31 AUG 1986
Anthus pratensis	Meadow Pipit	present	S097158950	SO98NE 1:10,000 Map	10-Nov-86
Anthus pratensis	Meadow Pipit	present	S097958995	SO98NE 1:10,000 Map	10-Nov-86
Anthus pratensis	Meadow Pipit	present	S0995900	Birmingham Canal Complex	24-Sep-87
Anthus pratensis	Meadow Pipit	present	S0995900	Birmingham Canal Complex	01-Oct-87
Anthus pratensis	Meadow Pipit	present	S0985895	Birmingham Canal Complex	22-Sep-87
Anthus pratensis	Meadow Pipit	present	S0985895	Birmingham Canal Complex	15-Sep-87
Anthus pratensis	Meadow Pipit	present	S0985895	Birmingham Canal Complex	23-Sep-87
Anthus pratensis	Meadow Pipit	present	S0981907	Brades Hall	29-Sep-87
Anthus pratensis	Meadow Pipit	present	S0975890	Rowley Hills	19-May-87
Anthus pratensis	Meadow Pipit	present	S0975890	Rowley Hills	22-Jun-87
Anthus pratensis	Meadow Pipit	present	S0995915	Snow Hill to Wolverhampton Railway	04-Aug-87
Anthus pratensis	Meadow Pipit	present	S0995915	Snow Hill to Wolverhampton Railway	03-Aug-87
Anthus pratensis	Meadow Pipit	present	S0984892	Shidas Lane Pond (62)	25-Oct-88
Anthus pratensis	Meadow Pipit	present	S0976890	Rowley Hills	07-Sep-98
Anthus pratensis	Meadow Pipit	present	S0976890	Rowley Hills	06-Aug-98
Anthus pratensis	Meadow Pipit	present	S09791	Sheepwash Lane Urban Park	OCT 1998 - MAY 1999
Arctia caja	Garden Tiger	present	S099658952	Birmingham Canal Complex	01-Aug-86
Arvicola terrestris	Water Vole	present	S0983896	B'ham Canal, W'ton Level	01-Jan-97
Arvicola terrestris	Water Vole	present	S0978903	Gower Branch Canal	01-May-97
Arvicola terrestris	Water Vole	present	S0978914	Sheepwash Urban Park, Pool 1	01-May-97
Arvicola terrestris	Water Vole	present	S0973917	Sheepwash Urban Park, Pool 2	01-May-97
Arvicola terrestris	Water Vole	present	S0989907	Walsall Canal	07-May-97
Arvicola terrestris	Water Vole	present	S0989907	Walsall Canal	01-Mar-97
Arvicola terrestris	Water Vole	present	S0980907	Gower Branch Canal	10-Aug-98
Arvicola terrestris	Water Vole	1	S0988909	Balls Hill Branch Canal	16-May-02
Arvicola terrestris	Water Vole	present	S0989907	Birmingham Canal Complex	19-May-02
Arvicola terrestris	Water Vole	1	S098089102	Gower Branch Canal	18-May-02
Arvicola terrestris	Water Vole	present	S0978903	Gower Branch Canal	2002
Arvicola terrestris	Water Vole	present	S0973917	Sheepwash Lane Urban Park	2002
Arvicola terrestris	Water Vole	present	S0978914	Sheepwash Lane Urban Park	2002
Arvicola terrestris	Water Vole	1	S0986916	Balls Hill Branch Canal	24-Mar-03
Arvicola terrestris	Water Vole	1	S0986894	Birmingham Canal Complex	17-Mar-03
Arvicola terrestris	Water Vole	present	S0998898	Birmingham Canal Complex	2003 - 2004
Arvicola terrestris	Water Vole	present	S0966918	Birmingham Canal Complex	2003 - 2004
Asio flammeus	Short-eared Owl	1	S0975913	Rattlechain Tip	Dec-83
Aythya ferina	Pochard	present	S09791	Sheepwash Lane Urban Park	OCT 1998 - MAY 1999
Bufo bufo	Common Toad	present	S0975914	Sheepwash Lane Urban Park	16 AUG 1975 - 22 AUG 1975
Calidris maritima	Purple Sandpiper	present	S0975918	Sheepwash Lane Urban Park	28-Jul-85
Colophrys rubi	Green Hairstreak	2	S0975918	Sheepwash Lane Urban Park	17-May-05
Colophrys rubi	Green Hairstreak	2	S0975892	Rowley Hills	24-May-06
Colophrys rubi	Green Hairstreak	1	S09791	Sheepwash Lane Urban Park	26-Apr-07
Colophrys rubi	Green Hairstreak	3	S0975891	Staffordshire Vice-county	23-May-07
Carduelis cannabina	Linnet	5	S0977894	Rowley Hills	09-Jun-75
Carduelis cannabina	Linnet	8	S0977894	Rowley Hills	19-May-75
Carduelis cannabina	Linnet	5	S0977894	Rowley Hills	09-Jun-75
Carduelis cannabina	Linnet	8	S0977894	Rowley Hills	19-May-75
Carduelis cannabina	Linnet	present	S0973916	Sheepwash Lane Urban Park	23-Jun-80
Carduelis cannabina	Linnet	100	S0975913	Rattlechain Tip	Winter 1983
Carduelis cannabina	Linnet	100	S0975913	Rattlechain Tip	Autumn 1984

Scientific Name	Common Name	Abundance	Grid Ref	Main Site Name	Date
Carduelis cannabina	Linnet	present	S099458910	Titford Canal	01-Aug-86
Carduelis cannabina	Linnet	present	S0985918	Balls Hill Branch Canal	25-Aug-87
Carduelis cannabina	Linnet	present	S0995900	Birmingham Canal Complex	01-Oct-87
Carduelis cannabina	Linnet	present	S0995900	Birmingham Canal Complex	24-Sep-87
Carduelis cannabina	Linnet	present	S0985895	Birmingham Canal Complex	22-Sep-87
Carduelis cannabina	Linnet	present	S0985895	Birmingham Canal Complex	15-Sep-87
Carduelis cannabina	Linnet	present	S0981907	Brades Hall	08-Jun-87
Carduelis cannabina	Linnet	present	S0981907	Brades Hall	29-Sep-87
Carduelis cannabina	Linnet	present	S0970914	Dudley Canal Complex	10-Sep-87
Carduelis cannabina	Linnet	present	S0985925	Great Bridge to West Bromwich Railway	13-Jul-87
Carduelis cannabina	Linnet	present	S0968912	Groveland Road	11-Sep-87
Carduelis cannabina	Linnet	present	S0974911	John's Lane Sewage Works	08-Jun-87
Carduelis cannabina	Linnet	present	S0969909	Land at Tipton Road (307)	06-Jul-87
Carduelis cannabina	Linnet	present	S0982927	Land off Brickhouse Lane	29-Jun-87
Carduelis cannabina	Linnet	present	S0975890	Rowley Hills	19-May-87
Carduelis cannabina	Linnet	present	S0975890	Rowley Hills	22-Jun-87
Carduelis cannabina	Linnet	present	S0995915	Snow Hill to Wolverhampton Railway	16-Jul-87
Carduelis cannabina	Linnet	present	S0995915	Snow Hill to Wolverhampton Railway	04-Aug-87
Carduelis cannabina	Linnet	present	S09791	Sheepwash Lane Urban Park	OCT 1998 - MAY 1999
Carduelis flammae	Redpoll	present	S098308995	Land at Brades Village	04-Aug-86
Carduelis flammae	Redpoll	present	S098308995	Land at Brades Village	04-Aug-86
Carduelis flammae	Redpoll	present	S098668999	SO98NE 1:10,000 Map	04-Aug-86
Carduelis flammae	Redpoll	present	S097958995	SO98NE 1:10,000 Map	10-Nov-86
Carduelis flammae	Redpoll	present	S0995915	Snow Hill to Wolverhampton Railway	22-Jul-87
Carduelis flammae	Redpoll	present	S0995915	Snow Hill to Wolverhampton Railway	03-Aug-87
Carduelis flammae	Redpoll	present	S0984892	Shidas Lane Pond (62)	25-Oct-88
Centaurea cyanus	Cornflower	present	S09890	Staffordshire Vice-county	2000
Centaurea cyanus	Cornflower	present	S0974922	Staffordshire Vice-county	04-Oct-07
Charadrius dubius	Little Ringed Plover	present	S0973916	Sheepwash Lane Urban Park	23-Jun-80
Charadrius dubius	Little Ringed Plover	1 pair	S0975913	Rattlechain Tip	Summer 1984
Charadrius dubius	Little Ringed Plover	several	S09791		1985 - 1998
Charadrius dubius	Little Ringed Plover	present	S0975917	Sheepwash Lane Urban Park	05-Jun-91
Charadrius hiaticula	Ringed Plover	present	S0975913	Rattlechain Tip	06-Aug-83
Chiroptera sp.	a bat species	1	S0972897	Staffordshire Vice-county	10-Sep-04
Chiroptera sp.	a bat species	2	S0981891	Staffordshire Vice-county	18-Nov-04
Coenonympha pamphilus	Small Heath	frequent	S098308995	Land at Brades Village	04-Aug-86
Coenonympha pamphilus	Small Heath	present	S098308995	Land at Brades Village	04-Aug-86
Coenonympha pamphilus	Small Heath	present	S0975890	Rowley Hills	01 JUL 1986 - 31 AUG 1986
Coenonympha pamphilus	Small Heath	present	S097458900	Rowley Hills	08-Aug-86
Coenonympha pamphilus	Small Heath	present	S0985918	Balls Hill Branch Canal	25-Aug-87
Coenonympha pamphilus	Small Heath	present	S0969909	Land at Tipton Road (307)	06-Jul-87
Coenonympha pamphilus	Small Heath	present	S0975890	Rowley Hills	22-Jun-87
Coenonympha pamphilus	Small Heath	present	S0995915	Snow Hill to Wolverhampton Railway	16-Jul-87
Coenonympha pamphilus	Small Heath	present	S0995915	Snow Hill to Wolverhampton Railway	04-Aug-87
Coenonympha pamphilus	Small Heath	present	S097708935	Rowley Hills	01-Aug-90
Coenonympha pamphilus	Small Heath	present	S0976890	Rowley Hills	06-Sep-98
Coenonympha pamphilus	Small Heath	5	S0979891	Rowley Hills	05-Jun-01
Coenonympha pamphilus	Small Heath	1	S0979904	Brades Hall	22-Jul-02
Coenonympha pamphilus	Small Heath	4	S0979892	Rowley Hills	08-Aug-07
Coenonympha pamphilus	Small Heath	11	S0975891	Staffordshire Vice-county	23-May-07
Columba oenas	Stock Dove	present	S0981907	Brades Hall	08-Jun-87
Columba oenas	Stock Dove	present	S0981907	Brades Hall	29-Sep-87
Columba oenas	Stock Dove	present	S0975890	Rowley Hills	19-May-87
Columba oenas	Stock Dove	present	S0975890	Rowley Hills	22-Jun-87
Cuculus canorus	Cuckoo	present	S0973916	Sheepwash Lane Urban Park	23-Jun-80
Cuculus canorus	Cuckoo	present	S0985918	Balls Hill Branch Canal	25-Aug-87
Cygnus olor	Mute Swan	present	S097659147	Sheepwash Lane Urban Park	13-May-86
Cygnus olor	Mute Swan	present	S09791	Sheepwash Lane Urban Park	OCT 1998 - MAY 1999
Cygnus olor	Mute Swan	present	S09666917	Birmingham Canal Complex	2003 - 2004
Delichon urbica	House Martin	present	S096968958	Darby's Hill Quarry	02-Jul-86
Delichon urbica	House Martin	present	S098308995	Land at Brades Village	04-Aug-86
Delichon urbica	House Martin	present	S098308995	Land at Brades Village	04-Aug-86
Delichon urbica	House Martin	present	S0975890	Rowley Hills	01 JUL 1986 - 31 AUG 1986
Delichon urbica	House Martin	present	S098008936	SO98NE 1:10,000 Map	04-Aug-86
Delichon urbica	House Martin	present	S098668999	SO98NE 1:10,000 Map	04-Aug-86
Delichon urbica	House Martin	present	S0995900	Birmingham Canal Complex	24-Sep-87
Delichon urbica	House Martin	present	S0985895	Birmingham Canal Complex	22-Sep-87
Delichon urbica	House Martin	present	S0985895	Birmingham Canal Complex	15-Sep-87
Delichon urbica	House Martin	present	S0981907	Brades Hall	08-Jun-87
Delichon urbica	House Martin	present	S0974911	John's Lane Sewage Works	08-Jun-87
Delichon urbica	House Martin	present	S0995915	Snow Hill to Wolverhampton Railway	03-Aug-87
Delichon urbica	House Martin	present	S0995915	Snow Hill to Wolverhampton Railway	04-Aug-87
Delichon urbica	House Martin	present	S0976890	Rowley Hills	06-Aug-98
Emberiza citrinella	Yellowhammer	1	S0977894	Rowley Hills	19-May-75
Emberiza citrinella	Yellowhammer	1	S0977894	Rowley Hills	19-May-75
Emberiza citrinella	Yellowhammer	present	S0975890	Rowley Hills	01 JUL 1986 - 31 AUG 1986
Emberiza citrinella	Yellowhammer	present	S0975890	Rowley Hills	22-Jun-87
Emberiza schoenicus	Reed Bunting	present	S0973916	Sheepwash Lane Urban Park	23-Jun-80
Emberiza schoenicus	Reed Bunting	up to 3 pairs	S0975913	Rattlechain Tip	-1985
Emberiza schoenicus	Reed Bunting	present	S097949090	Brades Hall	20-May-86
Emberiza schoenicus	Reed Bunting	present	S097659147	Sheepwash Lane Urban Park	13-May-86
Emberiza schoenicus	Reed Bunting	present	S0982927	Land off Brickhouse Lane	29-Jun-87
Emberiza schoenicus	Reed Bunting	present	S0995915	Snow Hill to Wolverhampton Railway	04-Aug-87
Emberiza schoenicus	Reed Bunting	present	S0987907	Birmingham Canal Complex	2003 - 2004
Erinaceus europaeus	Hedgehog	present	S097958995	SO98NE 1:10,000 Map	10-Nov-86
Erinaceus europaeus	Hedgehog	1	S0979922		20-Oct-04
Falco peregrinus	Peregrine	Present	S097728921	Staffordshire Vice-county	2002 - 2006
Falco tinnunculus	Kestrel	1	S0977894	Rowley Hills	19-May-75
Falco tinnunculus	Kestrel	1	S0977894	Rowley Hills	19-May-75
Falco tinnunculus	Kestrel	present	S0973916	Sheepwash Lane Urban Park	23-Jun-80
Falco tinnunculus	Kestrel	present	S0975913	Rattlechain Tip	1984
Falco tinnunculus	Kestrel	present	S0982927	Land off Brickhouse Lane	11-Sep-85
Falco tinnunculus	Kestrel	present	S096808959	Darby's Hill Quarry	02-Jul-86
Falco tinnunculus	Kestrel	present	S098308995	Land at Brades Village	04-Aug-86
Falco tinnunculus	Kestrel	present	S098308995	Land at Brades Village	04-Aug-86
Falco tinnunculus	Kestrel	present	S0975890	Rowley Hills	01 JUL 1986 - 31 AUG 1986
Falco tinnunculus	Kestrel	present	S097259177	Sheepwash Lane Urban Park	13-May-86
Falco tinnunculus	Kestrel	present	S097758978	SO98NE 1:10,000 Map	10-Nov-86
Falco tinnunculus	Kestrel	present	S097958995	SO98NE 1:10,000 Map	10-Nov-86

Scientific Name	Common Name	Abundance	Grid Ref	Main Site Name	Date
Falco tinnunculus	Kestrel	present	S0985918	Balls Hill Branch Canal	25-Aug-87
Falco tinnunculus	Kestrel	present	S0995900	Birmingham Canal Complex	01-Oct-87
Falco tinnunculus	Kestrel	present	S0985895	Birmingham Canal Complex	22-Sep-87
Falco tinnunculus	Kestrel	present	S0985895	Birmingham Canal Complex	15-Sep-87
Falco tinnunculus	Kestrel	present	S0981907	Brades Hall	29-Sep-87
Falco tinnunculus	Kestrel	present	S0970914	Dudley Canal Complex	10-Sep-87
Falco tinnunculus	Kestrel	present	S0975890	Rowley Hills	19-May-87
Falco tinnunculus	Kestrel	present	S0975890	Rowley Hills	22-Jun-87
Falco tinnunculus	Kestrel	present	S0995915	Snow Hill to Wolverhampton Railway	16-Jul-87
Falco tinnunculus	Kestrel	present	S0995915	Snow Hill to Wolverhampton Railway	30-Jul-87
Falco tinnunculus	Kestrel	present	S0995915	Snow Hill to Wolverhampton Railway	04-Aug-87
Falco tinnunculus	Kestrel	present	S0984892	Shidas Lane Pond (62)	25-Oct-88
Falco tinnunculus	Kestrel	present	S0976890	Rowley Hills	07-Sep-98
Falco tinnunculus	Kestrel	present	S0998898	Birmingham Canal Complex	2003 - 2004
Falco tinnunculus	Kestrel	1	S097948914	Rowley Hills	18-Jul-08
Fringilla montifringilla	Brambling	76	S0975913	Rattlechain Tip	Winter 1983
Gallinago gallinago	Snipe	1	S0975913	Rattlechain Tip	27-Mar-85
Gallinago gallinago	Snipe	present	S09791	Sheepwash Lane Urban Park	OCT 1998 - MAY 1999
Hirundo rustica	Swallow	present	S0973916	Sheepwash Lane Urban Park	23-Jun-80
Hirundo rustica	Swallow	present	S097559170	Sheepwash Lane Urban Park	13-May-86
Hirundo rustica	Swallow	present	S097759165	Sheepwash Lane Urban Park	13-May-86
Hirundo rustica	Swallow	present	S0975890	Rowley Hills	22-Jun-87
Hirundo rustica	Swallow	present	S0975890	Rowley Hills	19-May-87
Hirundo rustica	Swallow	present	S0975917	Sheepwash Lane Urban Park	05-Jun-91
Hirundo rustica	Swallow	present	S0976890	Rowley Hills	06-Aug-98
Hyacinthoides non-scripta	Bluebell	present	S0977894	Rowley Hills	19 MAY 1975 - 09 JUN 1975
Hyacinthoides non-scripta	Bluebell	present	S0977894	Rowley Hills	19 MAY 1975 - 09 JUN 1975
Hyacinthoides non-scripta	Bluebell	present	SP003914	Christ Church Churchyard (236)	16-Jun-86
Hyacinthoides non-scripta	Bluebell	present	S098109265	Great Bridge to West Bromwich Railway	19-May-86
Hyacinthoides non-scripta	Bluebell	present	S0993897	River Tame	28-May-86
Hyacinthoides non-scripta	Bluebell	present	S097828923	Rowley Hills	02-Jul-86
Hyacinthoides non-scripta	Bluebell	present	S0975890	Rowley Hills	19 MAY 1987 - 20 MAY 1987
Hyacinthoides non-scripta	Bluebell	present	S0975890	Rowley Hills	19 MAY 1987 - 20 MAY 1987
Hyacinthoides non-scripta	Bluebell	present	S0975890	Rowley Hills	19 MAY 1987 - 20 MAY 1987
Hyacinthoides non-scripta	Bluebell	present	S097359210	Sheepwash Lane Urban Park	01-May-87
Hyacinthoides non-scripta	Bluebell	present	S09990	Staffordshire Vice-county	1997
Hyacinthoides non-scripta	Bluebell	present	S0976919	Sheepwash Lane Urban Park	OCT 1998 - MAY 1999
Hyacinthoides non-scripta	Bluebell	present	S0976914	Sheepwash Lane Urban Park	OCT 1998 - MAY 1999
Hyacinthoides non-scripta	Bluebell	present	S09791	Sheepwash Lane Urban Park	1999
Hyacinthoides non-scripta	Bluebell	present	S09791	Staffordshire Vice-county	1999
Hyacinthoides non-scripta	Bluebell	present	S09991	Staffordshire Vice-county	1999
Hyacinthoides non-scripta	Bluebell	present	SP0090	Staffordshire Vice-county	1999
Larus argentatus	Herring Gull	present	S097958995	SO98NE 1:10,000 Map	10-Nov-86
Larus argentatus	Herring Gull	present	S09791	Sheepwash Lane Urban Park	OCT 1998 - MAY 1999
Larus fuscus	Lesser Black-backed Gull	present	S0975890	Rowley Hills	01 JUL 1986 - 31 AUG 1986
Larus fuscus	Lesser Black-backed Gull	present	S097458900	Rowley Hills	08-Aug-86
Larus fuscus	Lesser Black-backed Gull	present	S0995900	Birmingham Canal Complex	01-Oct-87
Larus fuscus	Lesser Black-backed Gull	present	S0970914	Dudley Canal Complex	10-Sep-87
Larus fuscus	Lesser Black-backed Gull	present	S0976890	Rowley Hills	07-Sep-98
Larus fuscus	Lesser Black-backed Gull	present	S0976890	Rowley Hills	06-Aug-98
Larus fuscus	Lesser Black-backed Gull	present	SP09G	Sandwell Valley Complex	APR 1998 - JUN 1998
Larus fuscus	Lesser Black-backed Gull	present	S09791	Sheepwash Lane Urban Park	OCT 1998 - MAY 1999
Larus fuscus	Lesser Black-backed Gull	several	S0975917	Sheepwash Lane Urban Park	06-Jun-01
Larus fuscus	Lesser Black-backed Gull	present	S0987907	Birmingham Canal Complex	2003 - 2004
Larus ridibundus	Black-headed Gull	present	S099208906	Birmingham Canal Complex	01-Aug-86
Larus ridibundus	Black-headed Gull	present	S0975890	Rowley Hills	01 JUL 1986 - 31 AUG 1986
Larus ridibundus	Black-headed Gull	present	S098698999	SO98NE 1:10,000 Map	04-Aug-86
Larus ridibundus	Black-headed Gull	present	S097758978	SO98NE 1:10,000 Map	10-Nov-86
Larus ridibundus	Black-headed Gull	present	S097958995	SO98NE 1:10,000 Map	10-Nov-86
Larus ridibundus	Black-headed Gull	present	S0985918	Balls Hill Branch Canal	25-Aug-87
Larus ridibundus	Black-headed Gull	present	S0995900	Birmingham Canal Complex	01-Oct-87
Larus ridibundus	Black-headed Gull	present	S0995900	Birmingham Canal Complex	24-Sep-87
Larus ridibundus	Black-headed Gull	present	S0985895	Birmingham Canal Complex	15-Sep-87
Larus ridibundus	Black-headed Gull	present	S0985895	Birmingham Canal Complex	22-Sep-87
Larus ridibundus	Black-headed Gull	present	S0985895	Birmingham Canal Complex	23-Sep-87
Larus ridibundus	Black-headed Gull	present	S0970914	Dudley Canal Complex	10-Sep-87
Larus ridibundus	Black-headed Gull	present	S0985925	Great Bridge to West Bromwich Railway	13-Jul-87
Larus ridibundus	Black-headed Gull	present	S0968912	Groveland Road	11-Sep-87
Larus ridibundus	Black-headed Gull	present	S0969909	Land at Tipton Road (307)	11-Sep-87
Larus ridibundus	Black-headed Gull	present	S0995915	Snow Hill to Wolverhampton Railway	04-Aug-87
Larus ridibundus	Black-headed Gull	present	S0995915	Snow Hill to Wolverhampton Railway	03-Aug-87
Larus ridibundus	Black-headed Gull	present	S0984892	Shidas Lane Pond (62)	25-Oct-88
Larus ridibundus	Black-headed Gull	present	S0985918	Balls Hill Branch Canal	21-Aug-98
Larus ridibundus	Black-headed Gull	present	S0976890	Rowley Hills	07-Sep-98
Larus ridibundus	Black-headed Gull	present	S09791	Sheepwash Lane Urban Park	OCT 1998 - MAY 1999
Larus ridibundus	Black-headed Gull	present	S0998898	Birmingham Canal Complex	2003 - 2004
Larus ridibundus	Black-headed Gull	present	S0975913	Birmingham Canal Complex	2003 - 2004
Larus ridibundus	Black-headed Gull	present	S0999896	Birmingham Canal Complex	2003 - 2004
Larus ridibundus	Black-headed Gull	present	S0966918	Birmingham Canal Complex	2003 - 2004
Lasiommata megera	Wall	abundant	S0977894	Rowley Hills	09-Jun-75
Lasiommata megera	Wall	abundant	S0977894	Rowley Hills	09-Jun-75
Lasiommata megera	Wall	present	S0982927	Land off Brickhouse Lane	11-Sep-85
Lasiommata megera	Wall	present	S0985918	Balls Hill Branch Canal	25-Aug-87
Meles meles	Badger	present	S0974915	Sheepwash Lane Urban Park	Apr-96
Meles meles	Badger	present	S097509147	Sheepwash Lane Urban Park	16-Apr-96
Meles meles	Badger	Present	S097828916	Rowley Hills	18-Jul-08
Microtus agrestis	Field Vole	present	S097158950	SO98NE 1:10,000 Map	10-Nov-86
Microtus agrestis	Field Vole	present	S0995915	Snow Hill to Wolverhampton Railway	03-Aug-87
Motacilla cinerea	Grey Wagtail	present	S0975913	Rattlechain Tip	AUG 1984 - FEB 1985
Motacilla cinerea	Grey Wagtail	present	S0995900	Birmingham Canal Complex	01-Oct-87
Motacilla cinerea	Grey Wagtail	present	S0995900	Birmingham Canal Complex	24-Sep-87
Motacilla cinerea	Grey Wagtail	present	S0985895	Birmingham Canal Complex	23-Sep-87
Motacilla cinerea	Grey Wagtail	present	S0985895	Birmingham Canal Complex	22-Sep-87
Motacilla cinerea	Grey Wagtail	present	S0981907	Brades Hall	29-Sep-87
Motacilla cinerea	Grey Wagtail	present	S0984892	Shidas Lane Pond (62)	25-Oct-88
Motacilla cinerea	Grey Wagtail	1	S09791	Sheepwash Lane Urban Park	OCT 1998 - MAY 1999
Motacilla flava	Yellow Wagtail	present	S0973916	Sheepwash Lane Urban Park	23-Jun-80
Motacilla flava	Yellow Wagtail	present	S0985895	Birmingham Canal Complex	15-Sep-87
Motacilla flava	Yellow Wagtail	present	S0974911	John's Lane Sewage Works	08-Jun-87

Scientific Name	Common Name	Abundance	Grid Ref	Main Site Name	Date
Muscicapa striata	Spotted Flycatcher	present	S0982927	Land off Brickhouse Lane	11-Sep-85
Muscicapa striata	Spotted Flycatcher		1 S0975913	Rattlechain Tip	-1985
Muscicapa striata	Spotted Flycatcher	present	S0975890	Rowley Hills	19-May-87
Numenius arquata	Curlew	present	S09791	Sheepwash Lane Urban Park	OCT 1998 - MAY 1999
Ophrys apifera	Bee Orchid	1	S097748906	Rowley Hills	12-Jun-07
Ophrys apifera	Bee Orchid	1	S097758896	Rowley Hills	12-Jun-07
Ophrys apifera	Bee Orchid	1	S097758905	Rowley Hills	12-Jun-07
Passer domesticus	House Sparrow	22	S0977894	Rowley Hills	09-Jun-75
Passer domesticus	House Sparrow	29	S0977894	Rowley Hills	19-May-75
Passer domesticus	House Sparrow	22	S0977894	Rowley Hills	09-Jun-75
Passer domesticus	House Sparrow	29	S0977894	Rowley Hills	19-May-75
Passer domesticus	House Sparrow	present	S0982927	Land off Brickhouse Lane	11-Sep-85
Passer domesticus	House Sparrow	present	S096809180	Birmingham Canal Complex	16-May-86
Passer domesticus	House Sparrow	present	S099369040	Birmingham Canal Complex	21-Apr-86
Passer domesticus	House Sparrow	present	S098508955	Birmingham Canal Complex	04-Aug-86
Passer domesticus	House Sparrow	present	S099208906	Birmingham Canal Complex	01-Aug-86
Passer domesticus	House Sparrow	present	S099658952	Birmingham Canal Complex	01-Aug-86
Passer domesticus	House Sparrow	present	S096959120	Dudley Canal Complex	16-May-86
Passer domesticus	House Sparrow	present	S096789090	Dudley Canal Complex	15-Apr-86
Passer domesticus	House Sparrow	present	S096659110	Groveland Road	16-May-86
Passer domesticus	House Sparrow	present	S097439106	John's Lane Sewage Works	13-May-86
Passer domesticus	House Sparrow	present	S098308995	Land at Brades Village	04-Aug-86
Passer domesticus	House Sparrow	present	S098308995	Land at Brades Village	04-Aug-86
Passer domesticus	House Sparrow	present	S0983901	Land at Brades Village	25-Jun-86
Passer domesticus	House Sparrow	present	S0993897	River Tame	28-May-86
Passer domesticus	House Sparrow	present	S099318972	River Tame	01-Aug-86
Passer domesticus	House Sparrow	present	S097769242	River Tame	16-May-86
Passer domesticus	House Sparrow	present	S0975890	Rowley Hills	01 JUL 1986 - 31 AUG 1986
Passer domesticus	House Sparrow	present	S097458900	Rowley Hills	08-Aug-86
Passer domesticus	House Sparrow	present	S097359210	Sheepwash Lane Urban Park	19-May-86
Passer domesticus	House Sparrow	present	S097259177	Sheepwash Lane Urban Park	13-May-86
Passer domesticus	House Sparrow	present	S097459150	Sheepwash Lane Urban Park	13-May-86
Passer domesticus	House Sparrow	present	S097759165	Sheepwash Lane Urban Park	13-May-86
Passer domesticus	House Sparrow	present	SP00179118	Snow Hill to Wolverhampton Railway	16-Jun-86
Passer domesticus	House Sparrow	present	S099459227	Snow Hill to Wolverhampton Railway	02-May-86
Passer domesticus	House Sparrow	present	SP00309109	Snow Hill to Wolverhampton Railway	16-Jun-86
Passer domesticus	House Sparrow	present	S098008936	SO98NE 1:10,000 Map	04-Aug-86
Passer domesticus	House Sparrow	present	S097188994	SO98NE 1:10,000 Map	10-Nov-86
Passer domesticus	House Sparrow	present	S097308940	SO98NE 1:10,000 Map	10-Nov-86
Passer domesticus	House Sparrow	present	S097758978	SO98NE 1:10,000 Map	10-Nov-86
Passer domesticus	House Sparrow	present	S097958995	SO98NE 1:10,000 Map	10-Nov-86
Passer domesticus	House Sparrow	present	S097039228	SO99SE 1:10,000 Map	19-May-86
Passer domesticus	House Sparrow	present	S097759023	SO99SE 1:10,000 Map	19-May-86
Passer domesticus	House Sparrow	present	S0985918	Balls Hill Branch Canal	25-Aug-87
Passer domesticus	House Sparrow	present	S0995900	Birmingham Canal Complex	24-Sep-87
Passer domesticus	House Sparrow	present	S0995900	Birmingham Canal Complex	01-Oct-87
Passer domesticus	House Sparrow	present	S0985895	Birmingham Canal Complex	15-Sep-87
Passer domesticus	House Sparrow	present	S0985895	Birmingham Canal Complex	22-Sep-87
Passer domesticus	House Sparrow	present	S0985925	Great Bridge to West Bromwich Railway	13-Jul-87
Passer domesticus	House Sparrow	present	S0974911	John's Lane Sewage Works	08-Jun-87
Passer domesticus	House Sparrow	present	S0969909	Land at Tipton Road (307)	06-Jul-87
Passer domesticus	House Sparrow	present	S0982927	Land off Brickhouse Lane	29-Jun-87
Passer domesticus	House Sparrow	present	S0975890	Rowley Hills	22-Jun-87
Passer domesticus	House Sparrow	present	S0975890	Rowley Hills	19-May-87
Passer domesticus	House Sparrow	present	S097359210	Sheepwash Lane Urban Park	01-May-87
Passer domesticus	House Sparrow	present	S0995915	Snow Hill to Wolverhampton Railway	03-Aug-87
Passer domesticus	House Sparrow	present	S0995915	Snow Hill to Wolverhampton Railway	04-Aug-87
Passer domesticus	House Sparrow	present	S0995915	Snow Hill to Wolverhampton Railway	30-Jul-87
Passer domesticus	House Sparrow	present	S0995915	Snow Hill to Wolverhampton Railway	16-Jul-87
Passer domesticus	House Sparrow	present	S0995915	Snow Hill to Wolverhampton Railway	22-Jul-87
Passer domesticus	House Sparrow	present	S0984892	Shidas Lane Pond (62)	25-Oct-88
Passer domesticus	House Sparrow	present	S097828923	Rowley Hills	18-Jul-08
Perdix perdix	Grey Partridge	present	S097439106	John's Lane Sewage Works	13-May-86
Phalacrocorax carbo	Cormorant	present	S09791	Sheepwash Lane Urban Park	OCT 1998 - MAY 1999
Phoenicurus ochruros	Black Redstart	1	S0975913	Rattlechain Tip	Nov-84
Phoenicurus ochruros	Black Redstart	present	S0988907	Birmingham Canal Complex	1998
Phoenicurus ochruros	Black Redstart	Present	S0977892	Staffordshire Vice-county	2002 - 2006
Pipistrellus pipistrellus s.l.	Pipistrelle	1	S0987923	Staffordshire Vice-county	10-Oct-90
Pipistrellus pipistrellus s.l.	Pipistrelle	1	S099819178	Staffordshire Vice-county	12-Jun-92
Pipistrellus pipistrellus s.l.	Pipistrelle	1	S0998918	Staffordshire Vice-county	12-Jun-92
Pipistrellus pipistrellus s.l.	Pipistrelle	1	S099699226	Staffordshire Vice-county	May-06
Potamogeton compressus	Grass-wrack Pondweed	occasional	S0997896	Birmingham Canal Complex	02-Aug-98
Potamogeton compressus	Grass-wrack Pondweed	occasional	S0992891	Birmingham Canal Complex	02-Aug-98
Prunella modularis	Duncock	1	S0977894	Rowley Hills	09-Jun-75
Prunella modularis	Duncock	1	S0977894	Rowley Hills	09-Jun-75
Prunella modularis	Duncock	1 pair	S0975913	Rattlechain Tip	27-Mar-85
Prunella modularis	Duncock	present	S098308995	Land at Brades Village	04-Aug-86
Prunella modularis	Duncock	present	S098308995	Land at Brades Village	04-Aug-86
Prunella modularis	Duncock	present	S096969094	Land at Tipton Road (307)	15-Apr-86
Prunella modularis	Duncock	present	S099109035	River Tame	21-Apr-86
Prunella modularis	Duncock	present	S099318972	River Tame	01-Aug-86
Prunella modularis	Duncock	present	S0975890	Rowley Hills	01-Aug-86
Prunella modularis	Duncock	present	S097458900	Rowley Hills	08-Aug-86
Prunella modularis	Duncock	present	SP00179118	Snow Hill to Wolverhampton Railway	16-Jun-86
Prunella modularis	Duncock	present	S098698999	SO98NE 1:10,000 Map	04-Aug-86
Prunella modularis	Duncock	present	S097158950	SO98NE 1:10,000 Map	10-Nov-86
Prunella modularis	Duncock	present	S097758978	SO98NE 1:10,000 Map	10-Nov-86
Prunella modularis	Duncock	present	S096619052	SO99SE 1:10,000 Map	15-Apr-86
Prunella modularis	Duncock	present	S0995900	Birmingham Canal Complex	01-Oct-87
Prunella modularis	Duncock	present	S0995900	Birmingham Canal Complex	01-Oct-87
Prunella modularis	Duncock	present	S0985895	Birmingham Canal Complex	15-Sep-87
Prunella modularis	Duncock	present	S0985895	Birmingham Canal Complex	22-Sep-87
Prunella modularis	Duncock	present	S0985895	Birmingham Canal Complex	23-Sep-87
Prunella modularis	Duncock	present	S0981907	Brades Hall	29-Sep-87
Prunella modularis	Duncock	present	S0985925	Great Bridge to West Bromwich Railway	13-Jul-87
Prunella modularis	Duncock	present	S0968912	Groveland Road	11-Sep-87
Prunella modularis	Duncock	present	S0974911	John's Lane Sewage Works	08-Jun-87
Prunella modularis	Duncock	present	S0969909	Land at Tipton Road (307)	06-Jul-87
Prunella modularis	Duncock	present	S0982927	Land off Brickhouse Lane	29-Jun-87

Scientific Name	Common Name	Abundance	Grid Ref	Main Site Name	Date
Prunella modularis	Dunnoch	present	S0975890	Rowley Hills	22-Jun-87
Prunella modularis	Dunnoch	present	S0975890	Rowley Hills	19-May-87
Prunella modularis	Dunnoch	present	S097359210	Sheepwash Lane Urban Park	01-May-87
Prunella modularis	Dunnoch	present	S0995915	Snow Hill to Wolverhampton Railway	03-Aug-87
Prunella modularis	Dunnoch	present	S0995915	Snow Hill to Wolverhampton Railway	30-Jul-87
Prunella modularis	Dunnoch	present	S0995915	Snow Hill to Wolverhampton Railway	04-Aug-87
Prunella modularis	Dunnoch	present	S0995915	Snow Hill to Wolverhampton Railway	16-Jul-87
Prunella modularis	Dunnoch	present	S0995915	Snow Hill to Wolverhampton Railway	22-Jul-87
Prunella modularis	Dunnoch	present	S0984892	Shidas Lane Pond (62)	25-Oct-88
Prunella modularis	Dunnoch	present	S0993921	Swan Village Gasworks Pond (200)	28-Oct-88
Prunella modularis	Dunnoch	present	S09791	Sheepwash Lane Urban Park	OCT 1998 - MAY 1999
Pyrrhula pyrrhula	Bullfinch	present	S0973916	Sheepwash Lane Urban Park	23-Jun-80
Pyrrhula pyrrhula	Bullfinch	present	S0975890	Rowley Hills	01 JUL 1986 - 31 AUG 1986
Pyrrhula pyrrhula	Bullfinch	present	S097958995	SO98NE 1:10,000 Map	10-Nov-86
Pyrrhula pyrrhula	Bullfinch	present	S0995900	Birmingham Canal Complex	01-Oct-87
Pyrrhula pyrrhula	Bullfinch	present	S0985895	Birmingham Canal Complex	15-Sep-87
Pyrrhula pyrrhula	Bullfinch	present	S0975890	Rowley Hills	22-Jun-87
Rana temporaria	Common Frog	present	S0975914	Sheepwash Lane Urban Park	16 AUG 1975 - 22 AUG 1975
Rana temporaria	Common Frog	present	S0975913	Rattlechain Tip	Mar-85
Rana temporaria	Common Frog	present	S0974910	John's Lane Sewage Works	08-Jun-87
Rana temporaria	Common Frog	2	S0975890	Rowley Hills	19-May-87
Rana temporaria	Common Frog	present	S0995915	Snow Hill to Wolverhampton Railway	03-Aug-87
Rana temporaria	Common Frog	present	S097828923	Rowley Hills	18-Jul-08
Regulus regulus	Goldcrest	present	S0975913	Rattlechain Tip	1984
Regulus regulus	Goldcrest	present	S0995900	Birmingham Canal Complex	01-Oct-87
Saxicola torquata	Stonechat	present	S0973916	Sheepwash Lane Urban Park	23-Jun-80
Saxicola torquata	Stonechat	2 pairs	S0975913	Rattlechain Tip	Winter 1983
Saxicola torquata	Stonechat	2 pairs	S0975913	Rattlechain Tip	JAN 1985 - FEB 1985
Saxicola torquata	Stonechat	several	S09791	Rattlechain Tip	1985 - 1998
Semiothisa clathrata	Latticed Heath	present	SP00179118	Snow Hill to Wolverhampton Railway	16-Jun-86
Semiothisa clathrata	Latticed Heath	present	S097708935	Rowley Hills	01-Aug-90
Semiothisa clathrata	Latticed Heath	2	S0975891	Staffordshire Vice-county	23-May-07
Sterna paradisaea	Arctic Tern	1	S0975917	Sheepwash Lane Urban Park	06-Jun-01
Sturnus vulgaris	Starling	1	S0977894	Rowley Hills	09-Jun-75
Sturnus vulgaris	Starling	21	S0977894	Rowley Hills	19-May-75
Sturnus vulgaris	Starling	1	S0977894	Rowley Hills	09-Jun-75
Sturnus vulgaris	Starling	21	S0977894	Rowley Hills	19-May-75
Sturnus vulgaris	Starling	present	S0982927	Land off Brickhouse Lane	11-Sep-85
Sturnus vulgaris	Starling	present	S096809180	Birmingham Canal Complex	16-May-86
Sturnus vulgaris	Starling	present	S099208906	Birmingham Canal Complex	01-Aug-86
Sturnus vulgaris	Starling	present	S099658952	Birmingham Canal Complex	01-Aug-86
Sturnus vulgaris	Starling	present	SP003914	Christ Church Churchyard (236)	16-Jun-86
Sturnus vulgaris	Starling	present	S096719008	Darby's Hill Quarry	15-Apr-86
Sturnus vulgaris	Starling	present	S096959120	Dudley Canal Complex	16-May-86
Sturnus vulgaris	Starling	present	S098308995	Land at Brades Village	04-Aug-86
Sturnus vulgaris	Starling	present	S098308995	Land at Brades Village	04-Aug-86
Sturnus vulgaris	Starling	present	S0983901	Land at Brades Village	25-Jun-86
Sturnus vulgaris	Starling	present	S099318972	River Tame	01-Aug-86
Sturnus vulgaris	Starling	present	S0975890	Rowley Hills	01 JUL 1986 - 31 AUG 1986
Sturnus vulgaris	Starling	present	S097458900	Rowley Hills	08-Aug-86
Sturnus vulgaris	Starling	present	S097359210	Sheepwash Lane Urban Park	19-May-86
Sturnus vulgaris	Starling	present	S097459150	Sheepwash Lane Urban Park	13-May-86
Sturnus vulgaris	Starling	present	S099509210	Snow Hill to Wolverhampton Railway	02-Jun-86
Sturnus vulgaris	Starling	present	SP00179118	Snow Hill to Wolverhampton Railway	16-Jun-86
Sturnus vulgaris	Starling	present	S099459227	Snow Hill to Wolverhampton Railway	02-May-86
Sturnus vulgaris	Starling	400	S098698999	SO98NE 1:10,000 Map	04-Aug-86
Sturnus vulgaris	Starling	present	S098558880	SO98NE 1:10,000 Map	06-Aug-86
Sturnus vulgaris	Starling	present	S097188994	SO98NE 1:10,000 Map	10-Nov-86
Sturnus vulgaris	Starling	present	S097308940	SO98NE 1:10,000 Map	10-Nov-86
Sturnus vulgaris	Starling	present	S097758978	SO98NE 1:10,000 Map	10-Nov-86
Sturnus vulgaris	Starling	present	S097958995	SO98NE 1:10,000 Map	10-Nov-86
Sturnus vulgaris	Starling	present	S097039228	SO99SE 1:10,000 Map	19-May-86
Sturnus vulgaris	Starling	present	S096429082	SO99SE 1:10,000 Map	15-Apr-86
Sturnus vulgaris	Starling	present	S097829038	SO99SE 1:10,000 Map	19-May-86
Sturnus vulgaris	Starling	present	S099259221	Swan Village Gasworks Pond (200)	02-Jun-86
Sturnus vulgaris	Starling	present	S0985918	Balls Hill Branch Canal	25-Aug-87
Sturnus vulgaris	Starling	present	S0995900	Birmingham Canal Complex	24-Sep-87
Sturnus vulgaris	Starling	present	S0995900	Birmingham Canal Complex	01-Oct-87
Sturnus vulgaris	Starling	present	S0985895	Birmingham Canal Complex	22-Sep-87
Sturnus vulgaris	Starling	present	S0981907	Brades Hall	29-Sep-87
Sturnus vulgaris	Starling	present	S0974910	John's Lane Sewage Works	08-Jun-87
Sturnus vulgaris	Starling	present	S0982927	Land off Brickhouse Lane	29-Jun-87
Sturnus vulgaris	Starling	present	S0975890	Rowley Hills	22-Jun-87
Sturnus vulgaris	Starling	present	S0975890	Rowley Hills	19-May-87
Sturnus vulgaris	Starling	present	S097359210	Sheepwash Lane Urban Park	01-May-87
Sturnus vulgaris	Starling	present	S0995915	Snow Hill to Wolverhampton Railway	03-Aug-87
Sturnus vulgaris	Starling	present	S0995915	Snow Hill to Wolverhampton Railway	04-Aug-87
Sturnus vulgaris	Starling	present	S0995915	Snow Hill to Wolverhampton Railway	30-Jul-87
Sturnus vulgaris	Starling	present	S0995915	Snow Hill to Wolverhampton Railway	22-Jul-87
Sturnus vulgaris	Starling	present	S0984892	Shidas Lane Pond (62)	25-Oct-88
Sturnus vulgaris	Starling	present	S09791	Sheepwash Lane Urban Park	OCT 1998 - MAY 1999
Sturnus vulgaris	Starling	present	S0987907	Birmingham Canal Complex	2003 - 2004
Tringa nebularia	Greenshank	2	S0975913	Rattlechain Tip	Aug-84
Tringa ochropus	Green Sandpiper	present	S0975913	Rattlechain Tip	01-Apr-84
Tringa totanus	Redshank	present	S0973916	Sheepwash Lane Urban Park	23-Jun-80
Triturus vulgaris	Smooth Newt	2	S0975914	Sheepwash Lane Urban Park	16 AUG 1975 - 22 AUG 1975
Triturus vulgaris	Smooth Newt	present	S0975913	Rattlechain Tip	1984
Triturus vulgaris	Smooth Newt	present	S0985918	Balls Hill Branch Canal	25-Aug-87
Triturus vulgaris	Smooth Newt	present	S0974910	John's Lane Sewage Works	08-Jun-87
Triturus vulgaris	Smooth Newt	present	S0995915	Snow Hill to Wolverhampton Railway	03-Aug-87
Turdus philomelos	Song Thrush	at least 2 pairs	S0975913	Rattlechain Tip	27-Mar-85
Turdus philomelos	Song Thrush	present	S099318972	River Tame	01-Aug-86
Turdus philomelos	Song Thrush	present	S0975890	Rowley Hills	01 JUL 1986 - 31 AUG 1986
Turdus philomelos	Song Thrush	present	S0985918	Balls Hill Branch Canal	25-Aug-87
Turdus philomelos	Song Thrush	present	S0995915	Snow Hill to Wolverhampton Railway	22-Jul-87
Turdus philomelos	Song Thrush	present	S0995915	Snow Hill to Wolverhampton Railway	30-Jul-87
Turdus philomelos	Song Thrush	present	S0995915	Snow Hill to Wolverhampton Railway	03-Aug-87
Turdus pilaris	Fieldfare	present	S09791	Sheepwash Lane Urban Park	OCT 1998 - MAY 1999
Turdus viscivorus	Mistle Thrush	1	S0977894	Rowley Hills	19-May-75



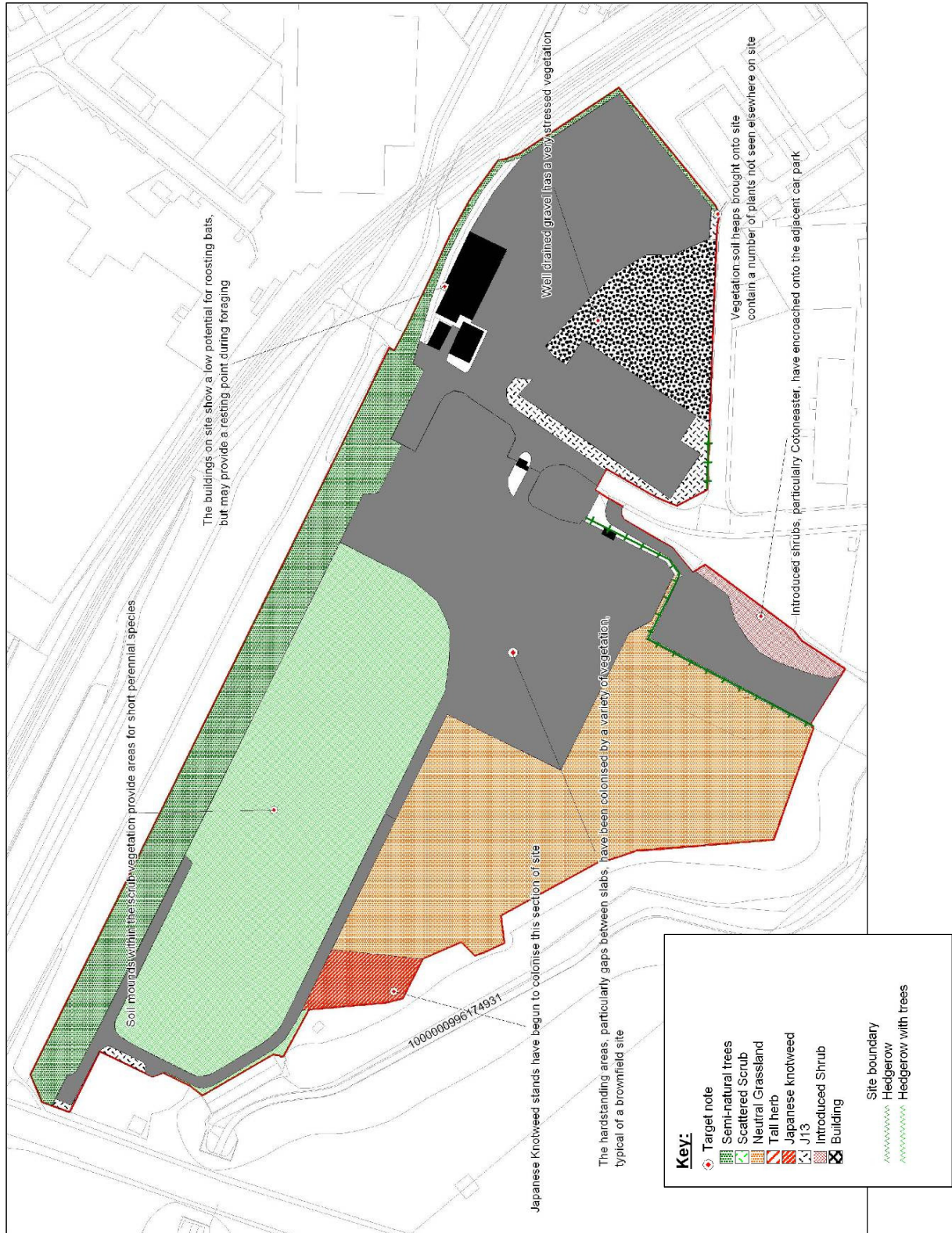
Scientific Name	Common Name	Abundance	Grid Ref	Main Site Name	Date
Turdus viscivorus	Mistle Thrush		2 SO977894	Rowley Hills	09-Jun-75
Turdus viscivorus	Mistle Thrush		1 SO977894	Rowley Hills	19-May-75
Turdus viscivorus	Mistle Thrush		2 SO977894	Rowley Hills	09-Jun-75
Turdus viscivorus	Mistle Thrush	present	SO96719008	Darby's Hill Quarry	15-Apr-86
Turdus viscivorus	Mistle Thrush	present	SO975890	Rowley Hills	01 JUL 1986 - 31 AUG 1986
Turdus viscivorus	Mistle Thrush	present	SO975890	Rowley Hills	22-Jun-87
Turdus viscivorus	Mistle Thrush	present	SO975890	Rowley Hills	19-May-87
Turdus viscivorus	Mistle Thrush	present	SO97359210	Sheepwash Lane Urban Park	01-May-87
Turdus viscivorus	Mistle Thrush	present	SO984892	Shidas Lane Pond (62)	25-Oct-88
Tyria jacobaeae	Cinnabar	present	SO982927	Land off Brickhouse Lane	11-Sep-85
Tyria jacobaeae	Cinnabar	present	SO99208906	Birmingham Canal Complex	01-Aug-86
Tyria jacobaeae	Cinnabar	present	SO970914	Dudley Canal Complex	10-Sep-87
Tyria jacobaeae	Cinnabar	present	SO985918	Balls Hill Branch Canal	21-Aug-98
Tyto alba	Barn Owl	present	SO973916	Sheepwash Lane Urban Park	23-Jun-80
Vanellus vanellus	Lapwing	present	SO975917	Sheepwash Lane Urban Park	05-Jun-91
Vanellus vanellus	Lapwing		27 SO9791	Sheepwash Lane Urban Park	OCT 1998 - MAY 1999

## Invasive species records within 2km of the site at the former Shell tank farm, Union Road, Oldbury (provided by EcoRecord)

Scientific Name	Common Name	Abundance	GridRef	Main Site Name	Date
Fallopia japonica	Japanese Knotweed	present	S0985918	Balls Hill Branch Canal	21-Aug-98
Fallopia japonica	Japanese Knotweed	present	S0989906	Balls Hill Branch Canal	25-Aug-87
Fallopia japonica	Japanese Knotweed	present	S0998898	Birmingham Canal Complex	08-Nov-88
Fallopia japonica	Japanese Knotweed	present	S0966918	Birmingham Canal Complex	2003 - 2004
Fallopia japonica	Japanese Knotweed	present	S0999896	Birmingham Canal Complex	22-Sep-87
Fallopia japonica	Japanese Knotweed	present	SP000899	Birmingham Canal Complex	08-Nov-88
Fallopia japonica	Japanese Knotweed	present	S0975913	Birmingham Canal Complex	2003 - 2004
Fallopia japonica	Japanese Knotweed	present	S0977903	Birmingham Canal Complex	15 SEP 1987 - 18 SEP 1987
Fallopia japonica	Japanese Knotweed	present	S0981907	Brades Hall	29-Sep-87
Fallopia japonica	Japanese Knotweed	present	S09794900	Brades Hall	20-May-86
Fallopia japonica	Japanese Knotweed	present	SP003914	Christ Church Churchyard (236)	22-Apr-75
Fallopia japonica	Japanese Knotweed	present	SP003914	Christ Church Churchyard (236)	16-Jun-86
Fallopia japonica	Japanese Knotweed	present	SP003914	Christ Church Churchyard (236)	15-Sep-81
Fallopia japonica	Japanese Knotweed	present	S0967896	Darby's Hill Quarry	19-Aug-98
Fallopia japonica	Japanese Knotweed	present	S0967896	Darby's Hill Quarry	11-Aug-98
Fallopia japonica	Japanese Knotweed	present	S0986894	Darby's Hill Quarry	22-Sep-88
Fallopia japonica	Japanese Knotweed	present	S0970914	Dudley Canal Complex	10-Sep-87
Fallopia japonica	Japanese Knotweed	present	S0980907	Gower Branch Canal	10-Aug-98
Fallopia japonica	Japanese Knotweed	present	S0980907	Gower Branch Canal	04-Aug-87
Fallopia japonica	Japanese Knotweed	present	S0985925	Great Bridge to West Bromwich Railway	13-Jul-87
Fallopia japonica	Japanese Knotweed	present	S0968912	Groveland Road	11-Sep-87
Fallopia japonica	Japanese Knotweed	present	S0983901	Land at Brades Village	25-Jun-86
Fallopia japonica	Japanese Knotweed	present	S0987903	Land at West Bromwich Street (335)	23-Jun-87
Fallopia japonica	Japanese Knotweed	present	S0982927	Land off Brickhouse Lane	11-Sep-85
Fallopia japonica	Japanese Knotweed	present	S0992924	Ridgacre Branch Canal (208)	14-Sep-87
Fallopia japonica	Japanese Knotweed	present	S0993897	River Tame	28-May-86
Fallopia japonica	Japanese Knotweed	present	S099109035	River Tame	21-Apr-86
Fallopia japonica	Japanese Knotweed	present	S09776242	River Tame	16-May-86
Fallopia japonica	Japanese Knotweed	present	S099318972	River Tame	01-Aug-86
Fallopia japonica	Japanese Knotweed	present	S0975890	Rowley Hills	19 MAY 1987 - 20 MAY 1987
Fallopia japonica	Japanese Knotweed	present	SP09	Sandwell Valley Complex	30 OCT 1988 - 28 FEB 1989
Fallopia japonica	Japanese Knotweed	present	S0972917	Sheepwash Lane Urban Park	OCT 1998 - MAY 1999
Fallopia japonica	Japanese Knotweed	present	S0976919	Sheepwash Lane Urban Park	OCT 1998 - MAY 1999
Fallopia japonica	Japanese Knotweed	present	S097359210	Sheepwash Lane Urban Park	01-May-87
Fallopia japonica	Japanese Knotweed	present	S09791	Sheepwash Lane Urban Park	1999
Fallopia japonica	Japanese Knotweed	present	S097359210	Sheepwash Lane Urban Park	19-May-86
Fallopia japonica	Japanese Knotweed	present	S0973921	Sheepwash Lane Urban Park	28-Jul-87
Fallopia japonica	Japanese Knotweed	present	S097359210	Sheepwash Lane Urban Park	19-May-86
Fallopia japonica	Japanese Knotweed	present	S097479186	Sheepwash Lane Urban Park	28-Jul-87
Fallopia japonica	Japanese Knotweed	present	S0974915	Sheepwash Lane Urban Park	28-Jul-87
Fallopia japonica	Japanese Knotweed	present	S097459150	Sheepwash Lane Urban Park	13-May-86
Fallopia japonica	Japanese Knotweed	present	S0984892	Shidas Lane Pond (62)	25-Oct-88
Fallopia japonica	Japanese Knotweed	present	SP00309109	Snow Hill to Wolverhampton Railway	16-Jun-86
Fallopia japonica	Japanese Knotweed	present	S099759142	Snow Hill to Wolverhampton Railway	27-Jul-87
Fallopia japonica	Japanese Knotweed	present	S099529185	Snow Hill to Wolverhampton Railway	27-Jul-87
Fallopia japonica	Japanese Knotweed	present	S099529185	Snow Hill to Wolverhampton Railway	20-May-86
Fallopia japonica	Japanese Knotweed	present	S099959127	Snow Hill to Wolverhampton Railway	30-Jul-87
Fallopia japonica	Japanese Knotweed	present	S099509210	Snow Hill to Wolverhampton Railway	27-Jul-87
Fallopia japonica	Japanese Knotweed	present	SP00179118	Snow Hill to Wolverhampton Railway	16-Jun-86
Fallopia japonica	Japanese Knotweed	present	S098018937	S098NE 1:10,000 Map	06-Jan-94
Fallopia japonica	Japanese Knotweed	present	S098008936	S098NE 1:10,000 Map	04-Aug-86
Fallopia japonica	Japanese Knotweed	present	S099158978	S098NE 1:10,000 Map	30-Jul-86
Fallopia japonica	Japanese Knotweed	present	S097758978	S098NE 1:10,000 Map	10-Nov-86
Fallopia japonica	Japanese Knotweed	present	S097309117	S099SE 1:10,000 Map	13-May-86
Fallopia japonica	Japanese Knotweed	present	S098679122	S099SE 1:10,000 Map	12-May-86
Fallopia japonica	Japanese Knotweed	present	S097869016	S099SE 1:10,000 Map	19-May-86
Fallopia japonica	Japanese Knotweed	present	S097829038	S099SE 1:10,000 Map	19-May-86
Fallopia japonica	Japanese Knotweed	present	S096619052	S099SE 1:10,000 Map	15-Apr-86
Fallopia japonica	Japanese Knotweed	present	S097829038	S099SE 1:10,000 Map	19-May-86
Fallopia japonica	Japanese Knotweed	present	S0972915	S099SE 1:10,000 Map	OCT 1998 - MAY 1999
Fallopia japonica	Japanese Knotweed	present	S098629145	S099SE 1:10,000 Map	12-May-86
Fallopia japonica	Japanese Knotweed	present	S09991	Staffordshire Vice-county	2004
Fallopia japonica	Japanese Knotweed	present	S09790	Staffordshire Vice-county	2000
Fallopia japonica	Japanese Knotweed	present	SP0092	Staffordshire Vice-county	2001
Fallopia japonica	Japanese Knotweed	present	SP0091	Staffordshire Vice-county	1997
Fallopia japonica	Japanese Knotweed	present	S09890	Staffordshire Vice-county	2000
Fallopia japonica	Japanese Knotweed	present	S09990	Staffordshire Vice-county	1997
Fallopia japonica	Japanese Knotweed	present	S09989	Staffordshire Vice-county	2003
Fallopia japonica	Japanese Knotweed	present	S09892	Staffordshire Vice-county	2004
Fallopia japonica	Japanese Knotweed	present	SP0091	Staffordshire Vice-county	2001
Fallopia japonica	Japanese Knotweed	present	SP0092	Staffordshire Vice-county	1999
Fallopia japonica	Japanese Knotweed	present	S09792	Staffordshire Vice-county	13-Oct-07
Fallopia japonica	Japanese Knotweed	present	SP0091	Staffordshire Vice-county	2007
Fallopia japonica	Japanese Knotweed	present	S0993921	Swan Village Gasworks Pond (200)	28-Oct-88
Fallopia japonica	Japanese Knotweed	present	S0980924	Walsall Canal	21-Aug-87
Fallopia japonica	Japanese Knotweed	present	S0983920	Walsall Canal	24-Aug-87
Fallopia japonica	Japanese Knotweed	present	S09889	Worcestershire Vice-county	1998
Fallopia japonica	Japanese Knotweed	present	SP0091	Staffordshire Vice-county	2001
Hyacinthoides hispanica	Spanish Bluebell	present	S0987907	Birmingham Canal Complex	2003 - 2004
Impatiens glandulifera	Indian Balsam	present	S0981907	Brades Hall	29-Sep-87
Impatiens glandulifera	Indian Balsam	present	S09792	Staffordshire Vice-county	2007
Impatiens glandulifera	Indian Balsam	present	S09792	Staffordshire Vice-county	13-Oct-07
Impatiens glandulifera	Indian Balsam	present	S09890	Staffordshire Vice-county	2000
Impatiens glandulifera	Indian Balsam	present	S09990	Staffordshire Vice-county	2004
Rhododendron ponticum	Rhododendron	present	S0975890	Rowley Hills	19 MAY 1987 - 20 MAY 1987

## Appendix V

### Habitat plan of the site at the former Shell tank farm, Union Road, Oldbury



## Appendix VI

### Floral species present at the site at the former Shell tank farm, Union Road, Oldbury

Scientific Name	Common Name
<i>Acer plantanoides</i>	Norway Maple
<i>Acer pseudoplatanus</i>	Sycamore
<i>Achillea millefolium</i>	Yarrow
<i>Agrostis stolonifera</i>	Creeping Bent
<i>Alliaria petiolata</i>	Garlic Mustard
<i>Alnus cordata</i>	Italian Alder
<i>Anisantha sterilis</i>	Barren Broome
<i>Anthriscus sylvestris</i>	Cow Parsley
<i>Anthyllis vulneraria</i>	Kidney Vetch
<i>Aquilegia vulgaris</i>	Columbine
<i>Arabidopsis thaliana</i>	Thale Cress
<i>Arenaria serpyllifolia</i>	Thyme-leaved Sandwort
<i>Arrhenatherum elaius</i>	False Oat-grass
<i>Artemisia absinthium</i>	Wormwood
<i>Artemisia vulgaris</i>	Mugwort
<i>Barbarea vulgaris</i>	Winter-cress
<i>Berberis thunbergii</i> 'Atropurpurea'	Thunberg's Barberry
<i>Bellis perennis</i>	Daisy
<i>Betula pendula</i>	Silver Birch
<i>Bromus hordeaceus</i> ssp.	Soft Brome
<i>Buddleja davidii</i>	Butterfly-bush
<i>Calystegia silvatica</i>	Large Bindweed
<i>Centaurea nigra</i>	Common Knapweed
<i>Centaureum erythraea</i>	Common Centaury
<i>Centranthus ruber</i>	Red Valerian
<i>Cerastium fontanum</i>	Common Mouse-ear
<i>Cerastium glomeratum</i>	Sticky Mouse-ear
<i>Cerastium tomentosum</i>	Snow-in-summer
<i>Chamerion angustifolium</i>	Rosebay Willowherb
<i>Chelidonium majus</i>	Greater Celandine
<i>Cirsium arvense</i>	Creeping Thistle
<i>Cirsium vulgare</i>	Spear Thistle
<i>Clematis vitalba</i>	Traveller's Joy
<i>Convolvulus arvensis</i>	Field Bindweed
<i>Cornus</i> sp.	Dogwood sp.
<i>Cortaderia selloana</i>	Pampas-grass
<i>Cotoneaster dammeri</i>	Bearberry Cotoneaster
<i>Cotoneaster integrifolius</i>	Entire-leaved Cotoneaster
<i>Cotoneaster rehderi</i>	Bullate Cotoneaster
<i>Corylus avellana</i>	Hazel
<i>Crataegus monogyna</i>	Hawthorn
<i>Crepis vesicaria</i>	Beaked Hawk's-beard
<i>Cytisus scoparius</i>	Broom
<i>Dactylis glomerata</i>	Cock's-foot
<i>Daucus carota</i>	Wild Carrot
<i>Deschampsia cespitosa</i>	Tufted Hair-grass
<i>Digitalis purpurea</i>	Foxglove
<i>Dryopteris filix-mas</i> agg.	Male Fern
<i>Epilobium montanum</i>	Broad-leaved Willowherb
<i>Equisetum arvense</i>	Field Horsetail

Scientific Name	Common Name
<i>Erigeron acer</i>	Blue Fleabane
<i>Euonymus europaeus</i>	Spindle
<i>Fallopia japonica</i>	Japanese Knotweed
<i>Festuca rubra</i>	Red Fescue
<i>Fraxinus excelsior</i>	Ash
<i>Galium aparine</i>	Cleavers
<i>Geranium endressii</i>	French Crane's-bill
<i>Geranium lucidum</i>	Shining Crane's-bill
<i>Geranium pyrenaicum</i>	Hedgerow Crane's-bill
<i>Geranium robertianum</i>	Herb-robert
<i>Hedera helix</i>	Ivy
<i>Heracleum sphondylium</i>	Hogweed
<i>Hieracium</i> sp.	Hawkweed
<i>Hirschfeldia incana</i>	Hoary Mustard
<i>Holcus lanatus</i>	Yorkshire-fog
<i>Hordeum murinum</i>	Wall Barley
<i>Hypericum maculatum</i>	Imperforate St. John's-wort
<i>Hypericum perforatum</i>	Perforate St. John's-wort
<i>Hypochaeris radicata</i>	Cat's-ear
<i>Kniphofia uvaria</i>	Red-hot-poker
<i>Lactuca serriola</i>	Prickly Lettuce
<i>Lepidium draba</i>	Hoary Cress
<i>Leucanthemum vulgare</i>	Oxeye Daisy
<i>Linaria purpurea</i>	Purple Toadflax
<i>Linaria vulgaris</i>	Common Toadflax
<i>Lolium perenne</i>	Perennial Rye-grass
<i>Lonicera pileata</i>	Box-leaved Honeysuckle
<i>Lotus corniculatus</i>	Common Bird's-foot-trefoil
<i>Lupin albus</i>	White Lupin
<i>Medicago lupulina</i>	Black Medick
<i>Mycelis muralis</i>	Wall Lettuce
<i>Papaver rhoeas</i>	Common Poppy
<i>Persicaria maculosa</i>	Redshank
<i>Phyllitis scolopendrium</i>	Hart's-tongue
<i>Pilosella officinarum</i>	Mouse-ear Hawkweed
<i>Pinus sylvestris</i>	Scots Pine
<i>Plantago lanceolata</i>	Ribwort Plantain
<i>Plantago major</i>	Greater Plantain
<i>Poa annua</i>	Annual Meadow-grass
<i>Poa trivialis</i>	Rough Meadow-grass
<i>Prunus</i> sp.	An evergreen Cherry
<i>Pteridium aquilinum</i>	Bracken
<i>Ranunculus acris</i>	Meadow Buttercup
<i>Ranunculus repens</i>	Creeping Buttercup
<i>Reseda luteola</i>	Weld
<i>Rosa canina</i>	Dog Rose
<i>Rubus fruticosus</i> agg.	Bramble
<i>Rubus laciniatus</i>	Cut-leaved Bramble
<i>Rumex acetosella</i> s.l.	Sheep's Sorrell
<i>Rumex crispus</i>	Curled Dock
<i>Rumex obtusifolius</i>	Broad-leaved Dock
<i>Salix caprea</i>	Goat Willow
<i>Salix viminalis</i>	Osier
<i>Sambucus nigra</i>	Alder
<i>Santolina chamaecyparissus</i>	Lavender-cotton
<i>Scrophularia nodosa</i>	Common Figwort

Scientific Name	Common Name
<i>Sedum spectabile</i>	Butterfly Stonecrop
<i>Senecio jacobea</i>	Common Ragwort
<i>Senecio squalidus</i>	Oxford Ragwort
<i>Senecio vulgaris</i>	Groundsel
<i>Silene dioica</i>	Red Campion
<i>Silene latifolia</i>	White Campion
<i>Silene vulgaris</i>	Bladder Campion
<i>Sisymbrium officinale</i>	Hedge Mustard
<i>Sisymbrium orientale</i>	Eastern Rocket
<i>Solidago virgaurea</i>	Goldenrod
<i>Sonchus oleraceus</i>	Smooth Sow-thistle
<i>Sorbus aucuparia</i>	Rowan
<i>Tanacetum vulgare</i>	Tansy
<i>Taraxacum officinale</i> agg.	Dandelion
<i>Tragopogon pratensis</i>	Goat's-beard
<i>Trifolium arvense</i>	Hare's-foot Clover
<i>Trifolium dubium</i>	Lesser Trefoil
<i>Trifolium pratense</i>	Red Clover
<i>Trifolium repens</i>	White Clover
<i>Tripleurospermum inodorum</i>	Scentless Mayweed
<i>Tussilago farfara</i>	Colt's-foot
<i>Urtica dioica</i>	Common Nettle
<i>Veronica arvensis</i>	Wall Speedwell
<i>Vicia hirsute</i>	Hairy Tare
<i>Vicia sativa</i> ssp. <i>segetalis</i>	Common Vetch
<i>Vulpia bromoides</i>	Squirreltail Fescue
<i>X Cupressocyparis leylandii</i>	Leyland Cypress

**Avifaunal species present at the site (or flying over) the former Shell tank farm,  
Union Road, Oldbury**

Scientific Name	Common Name
<i>Ardea cinerea</i>	Grey Heron
<i>Columba palumbus</i>	Woodpigeon
<i>Corvus corone</i>	Carrion Crow
<i>Cyanistes caeruleus</i>	Blue Tit
<i>Larus ridibundus</i>	Black-headed Gull
<i>Pica pica</i>	Magpie
<i>Sylvia communis</i>	Whitethroat
<i>Turdus merula</i>	Blackbird

**Invertebrate species present at the site at the former Shell tank farm, Union Road, Oldbury**

<b>Scientific Name</b>	<b>Common Name</b>
<i>Anthocharis cardamines</i>	Orange-tip
<i>Coenonympha pamphilus</i>	Small Heath
<i>Euclidia glyphica</i>	Burnet Companion
<i>Inachis io</i>	Peacock
<i>Pararge aegeria</i>	Speckled Wood
<i>Pieris brassicae</i>	Large White
<i>Pieris rapae</i>	Small White
<i>Polyommatus icarus</i>	Common Blue
<i>Vanessa cardui</i>	Painted Lady

## **Appendix VII**

### **Site photographs**



#### **Plate 1**

##### *Main site entrance*

A former industrial area, the site on Union Road contains a mixture of habitats including: grassland, large areas of concrete and vandalised buildings and immature woodland scrub. Looking at the age of vegetation, as well as input from local businesses, it is estimated that the site has probably been abandoned for 20 years.



#### **Plate 2**

##### *Site buildings close to entrance*

The flat roofs and single skin brick wall construction offers little bat roost potential and no evidence of bats using the site was found. However, the majority of buildings are near collapse and a thorough examination could not be undertaken.



**Plate 3***Buildings at the north-west side of site*

This section of buildings included two large maintenance buildings, badly vandalised but structurally sound, and a large former office that has been completely burnt-out, both of which show low potential for roosting bats

**Plate 4***Eastern side of site*

The majority of the site east of the main entrance is hardstanding where vegetation has grown in the margins between patches and up through cracks in the concrete. The dominant vegetation is Butterfly-bush (*Buddleja davidii*) and Perennial Rye-grass (*Lolium perenne*).

**Plate 5***Well drained gravel*

A large area of well drained gravel also occupies a portion of the eastern side of site. This habitat contains a similar brownfield vegetation assemblage to the rest of site but extremely stressed, as well as some other less common species including: Blue Fleabane (*Erigeron acer*).

**Plate 6***Western side of site*

The habitat on the west side of site is split between open grassland to the south and a denser scrub area to the north, again interspersed with areas of hardstanding concrete and tarmac. It is bounded on two sides by the River Tame and the Birmingham Canal Navigation, Mainline Canal.

**Plate 7***Grassland habitat*

The dominant species in the grassland area are: Rough Meadow-grass (*Poa trivialis*), Perennial Rye-grass and False Oat-grass (*Arrhenatherum elatius*) with small immature stands of Broom (*Cytisus scoparius*), Silver Birch (*Betula pendula*) and Goat Willow (*Salix caprea*).

**Plate 8***Stands of Japanese Knotweed*



A number of stands of Japanese Knotweed (*Fallopia japonica*) are located close to the western boundary of site, near the River Tame. In their present condition they are manageable but left untreated they could spread right across site.

**Plate 9***Scrubland area*

The vegetation in the north-west corner of site is scrubbier than the adjacent grassland. The area has a number of undulating soils mounds which have been colonised by a range of plants: Oxeye Daisy (*Leucanthemum vulgare*), Colt's-foot (*Tussilago farfara*), Broad-leaved Dock (*Rumex obtusifolia*) and Common Nettle (*Urtica dioica*).

**Plate 10***Disused railway tracks*

Running parallel to the canal, along the north boundary, are two sets of railway tracks. This area has a particularly sparse groundcover predominately consisting of Rosebay Willowherb (*Chamerion angustifolium*) and Hawkweed (*Hieracium* sp.) with immature Silver Birch, Goat Willow and Buddleia providing a low canopy layer.

	<p><b>Plate 11</b></p> <p><i>Vegetated mounds</i></p> <p>Dotted around the boundaries of site are vegetated mounds, originally put in place to limit access to the site. A number of plant species were only found on these vegetated mounds, including: Groundsel (<i>Senecio vulgaris</i>), Common Poppy (<i>Papaver rhoeas</i>) and Scentless Mayweed (<i>Tripleurospermum inodorum</i>).</p>
	<p><b>Plate 12</b></p> <p><i>Tarmac car park and shrubs</i></p> <p>A large area of tarmac car park has is covered by Bearberry Cotoneaster (<i>Cotoneaster dammerii</i>) which has encroached from the planted ornamental border. Although non-native the Cotoneaster does provide an excellent food resource for invertebrates, particularly bees.</p>

## Appendix VIII

### Native 'bat-friendly' planting

(Taken from the Bat Conservation Trust's leaflet 'Gardening for bats')

#### Gardening for bats

Aim at having flowers in bloom through the year, including both annuals and herbaceous perennials.

Below are some suggestions, but this is by no means an exhaustive list. See what grows well in YOUR garden, and what seems most attractive to insects.

Flowering times are approximate, varying in different areas. Regular dead-heading extends flowering period in many flowers. A=annual, HA=hardy annual, HHA=half-hardy annual, P=perennial, W=wild flower.

Flowers for borders			
St John's Wort	<i>Hypericum</i>	P	March-
marigolds	<i>Calendula</i>	H/A	March – Oct.
aubretia	<i>a. deltoidea</i>	P	March-June
honesty	<i>Lunaria rediva</i>	HB	March
forget-me-not	<i>Myosotis sp.</i>	A/P	March - May
elephant ears	<i>Bergenia</i>	P	April
Wallflowers	<i>Erysimum</i>	B	April - June
Cranesbills	<i>Geranium sp</i>	P	May – Sept.
Yarrow	<i>Achillea</i>	P	May -
Poppies	<i>Papaver sp.</i>	A	May - July
Dames violet	<i>Hesperis matronalis</i>	P	May - August
Red Valerian	<i>Centranthus ruber</i>	P	May – Sept.
Poached egg plant	<i>Limnanthes</i>	HA	June – Aug.
Knapsweed	<i>Centaurea nigra</i>	P	June- Sept.
Phacelia		HA	June – Sept.
Ox-eye daisy	<i>Leucanthemum vulgare</i>	P	June – Aug.
Evening primrose	<i>Oenothera biennis</i>	B	June-Sept.
Candytuft	<i>Iberis umbellata</i>	HA	June – Sept.
Sweet William	<i>Dianthus barbatus</i>	B	June - July
Blanket flowers	<i>Gaillardia</i>	P	June -
Verbena	<i>V.bonariensis</i>	HHA	June – Oct.
Scabious	<i>knautia arvensis</i>	P	July-Aug.
Night-scented stock	<i>matthiola bicomia</i>	HA	July-Aug.
Pincushion flower	<i>Scabious sp.</i>	A/P	July – Sept.
Cherry pie	<i>heliotrope</i>	HHA	July – Oct.
Mexican aster	<i>Cosmos sp.</i>	A/P	July – Oct.
Cone flower	<i>Rudbeckia sp.</i>	A/P	August-Nov.
Mallow	<i>lavatera sp.</i>	P	August-Oct.
Michaelmas daisy	<i>Aster sp.</i>	P	August-Sept.
Ice plant 'Pink lady'	<i>Sedum spectabile</i>	P	Sept.
Herbs – both leaves and flowers are fragrant			
Fennel	<i>Foeniculum vulgare</i>		July – Sept.
Bergamot	<i>Monarda didyma</i>		June - Sept
Sweet Cicely	<i>Myrrhis odorata</i>		April - June
Hyssop	<i>Hyssopus officianlis</i>		July - Sept
Feverfew	<i>Tanacetum parthenium</i>		June – Sept.
Borage	<i>Borago officinalis</i>		May – Sept.

Rosemary	<i>Rosemary officinalis</i>		March - May
Lemon balm	<i>Melissa officinalis</i>		
Coriander	<i>Copriannum sativum</i>		June - August
Lavenders	<i>Lavendula sp.</i>		
Marjoram	<i>Origanum sp</i>		
Trees, shrubs and climbers important to insects			
Oak	<i>Quercus sp.</i>		large gardens only
Silver birch	<i>Betula pendula</i>		
Common alder	<i>Alnus glutinosa</i>		Suitable for coppicing
Hazel	<i>Corylus avellana</i>		Suitable for coppicing
Elder	<i>Sambucus nigra</i>		Small
Pussy willow	<i>Salix caprea</i>		Suitable for coppicing
Hawthorn	<i>Crataegus monogyna</i>		Suitable for coppicing
Honeysuckle	<i>Lonicera sp.</i>		grow a variety for succession.
Dog rose	<i>Rosa canina</i>		Climber
Bramble	<i>Rubus fruticosus</i>		Climber
Ivy	<i>hedera helix</i>		Climber
Buddleia	<i>Buddleia davidii</i>		shrub
Guelder rose	<i>Vibernum opulus</i>		shrub
Gorse	<i>Ulex sp.</i>		shrub
Plants for pond edges and marshy areas			
Purple loosestrife	<i>Lythrum salicaria</i>	W	June – Aug.
Meadow sweet	<i>Filipendula ulmaria</i>	W	June – Sept.
Lady's smock	<i>Cardamine pratensis</i>	W	April - June
Water mint	<i>mentha aquatica</i>	W	July – Sept.
Angelica	<i>Angelica sylvestris</i>	W	July – Sept
Hemp agrimony	<i>Eupatorium cannabinum</i>	W	July – Sept.
Marsh marigold	<i>Caltha palustris</i>	W	March – May
Creeping Jenny	<i>Lysimachia nummularia</i>	W	May - August
Fringed water lily	<i>Nymphoides peltata</i>	W	June – Sept.
Water forget-me-not	<i>Myosotis scorpioides</i>	W	June – Sept.

Allow part of your lawn to grow long in summer and cut in autumn, removing the clippings. Avoid using fertilizers. Compost heaps are good producers of insects too.

*Add a seat to watch your garden come to life!*