ECOLOCATION

08/00959/LBC

Protected Species Surveys for Development

11 DEC 2008

The Old Dairy 25 Brookside Stretton-on-Dunsmore Rugby Warwickshire CV23 9NH 02476 541776 george.burton@sky.com

2008-09 (1)

RECEIVED
11 DEC 2008
DEVELOPMENT SERVICES

10th December 2008

Tracy Darke
Development and Policy Manager
Hinckley & Bosworth Borough Council
Council Offices
Argents Mead
Hinckley
Leicestershire
LE10 1BZ

For the attention of Cathy Horton

Dear Madam,

Re: Goddard Building and Associated Sites, Lower Bond Street, Hinckley
Phase I Ecological Study

Further to your recent instructions we have pleasure in enclosing a copy of the Phase I Study for the above which should be read in conjunction with the previously provided Bat Survey Report.

A copy of the report has been issue to RPS and Corstorphine & Wright for their information and we can confirm that a meeting has recently been held with the latter to discuss the implications of the bat roost in the Goddard Building.

We trust you find the enclosed suitable for your immediate purpose though should you have any queries please do not hesitate to contact the undersigned. In the meantime we await your purchase order in order that we may invoice for this part of the work as discussed with Alison White.

Following discussions with RPS we will also be providing shortly a quotation for further surveying in relation to the bat roosts in order to inform the future Natural England License Application which will be based on the ultimate design of the enclosure of the relevant parts of the building.

We also await your advice as to when you will require further inspections once scaffold is erected in respect of re-roofing works.

Yours faithfully,

George Burton
Ecolocation

Enc. Phase I Study Report

Copy to: RPS
Corstorphine & Wright

ECOLOCATION is a trading style of George Burton ARCHITECTURE & ECOLOGY Ltd. Incorporated in England, Registered No. 6458127.

ECOLOCATION

Protected Species Surveys for Development

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Phase I Study Report

at

The Goddard Building
Lower Bond Street
Hinckley
Leicestershire
LE10 1QU

for

Hinckley & Bosworth Borough Council

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1.0 INTRODUCTION

1.1 SUMMARY

ECOLOCATION were commissioned by Hinckley & Bosworth Borough Council, Argents Mead, Hinckley, Leicestershire LE10 1BZ to undertake an ecological assessment of parcels of land off Lower Bond Street, Hinckley (hereafter referred to as the Site) which is understood will be subject to a planning application for the renovation of the existing Goddard Building and erection of new buildings for use by North Warwickshire & Hinckley College.

1.2 SURVEY AIMS

The aims of the survey were to:

- provide a description of the habitats present on site
- identify the potential for the presence of protected species on site
- determine the need for further ecological surveys
- assess the ecological impact of the proposals
- identify any ecological constraints/opportunities on site

2.0 METHODOLOGY

2.1 DESK-TOP STUDY

Prior to the ecological survey of the Site, a desk-top data gathering exercise was undertaken. Leicestershire Environmental Resources Centre were contacted for records within 1km of the Site. The results of these searches are presented in section 6.4.

2.2 PHASE 1 HABITAT SURVEY

On 22nd November 2008 a walkover survey of the Site was carried out in accordance with standard methodology for Phase 1 habitat assessment (Joint Nature Conservation Committee, 1993). Habitats and features were classified and recorded together with target notes identifying any particular areas of ecological interest.

2.3 HABITAT EVALUATION

Habitats classified using Phase 1 methodology (JNCC, 1993) were then evaluated against the recognised and well-used Ratcliffe Criteria in order to give them a scale of importance. Such criteria included size, species diversity, presence of Local BAP or UK BAP habitats and species together with presence of other notable species. The classifications were as follows:

- Low
- Low-medium
- Medium
- Medium-high
- High

3.0 RESULTS

3.1 DESK-TOP STUDY RESULTS

3.1.1 Sites

There are no statutory sites within 1km of the Site.

Four non-statutory sites are located within 1km of the Site and all are listed as Wildlife Sites within Clarendon Park. These are summarised in Table 1. For full details please refer to Appendix 6.4.

Table 1. Non-statutory sites within 1km of the Site

Site	National Grid Reference	Ecological Summary	Approximate Distance to Site
Clarendon Park Arboretum	SP4193	Wildlife Site 2.5ha. No further information available.	600m south-west
Mature Ash 1, Clarendon Park	SP4193	Wildlife Site 0.06ha. No further information available.	600m south-west
Mature Ash 2, Clarendon Park	SP4193	Wildlife Site 0.05ha. No further information available.	600m south-west
Mature Ash 3, Clarendon Park	SP4193	Wildlife Site 0.05ha. No further information available.	600m south-west

3.1.2 Species

The desk-top study revealed a number of protected species records within 1km of the Site. There are six such species within 1km of the site and these are presented in Table 2. For full species lists please refer to Appendix 6.4.

Table 2. Protected species records within 1km of the Site

Common Name	Latin Name	Date of Record	Distance to Site	Local BAP	UK BAP	Protection
Indeterminate bat (roost)		1988	400m	Yes		WCA, HR
Brown long-eared bat	*Plecotus auritus*	1983	400m	Yes		WCA. HR
Indeterminate bat		1988	1km	Yes		WCA, HR
Brown long-eared bat (roost)	*Plecotus auritus*	2006	900m	Yes		WCA. HR
Indeterminate pipistrelle (roost)	*Pipistrellus spp.*	2006	900m	Yes	Yes	WCA. HR
Whiskered bat (roost)	*Myotis mystacinus*	2006	900m	Yes		WCA. HR

WCA – Wildlife & Countryside Act 1981 (as amended) *Nationally protected*
HR – Habitat Regulations 1994 *Internationally protected*

3.2 PHASE 1 HABITAT SURVEY RESULTS

An annotated Phase 1 habitat survey map is provided in Appendix 6.2. This illustrates the location of all habitat types recorded at the Site together with target notes depicting features of ecological interest. A full species list is provided in Appendix 6.3.

3.2.1 Habitats

The following habitats were recorded at the Site on 22nd November 2008.

- Hardstanding
- Buildings
- Ephemeral/short perennial
- Introduced shrub
- Tall ruderal

The Site comprised four distinct areas on either side of Lower Bond Street, Hinckley (please see the map in Appendix 6.2). Each of the areas was characterised by hardstanding, either as a car park or due to recent demolition. Around the edges of the hardstanding in all four areas were either patches of ephermal/short perennial vegetation or tall ruderals. A large building (Goddard Building) was present in area 1 (as marked on the map) adjacent to Lower Bond Street and its potential for use by protected species is discussed in a separate bat report undertaken by Ecolocation in October 2008.

Hardstanding

Areas 1 and 2 support large areas of hardstanding due to recent demolition.

Areas 3 and 4 are mostly laid to hardstanding for what appeared to be use as a car park.

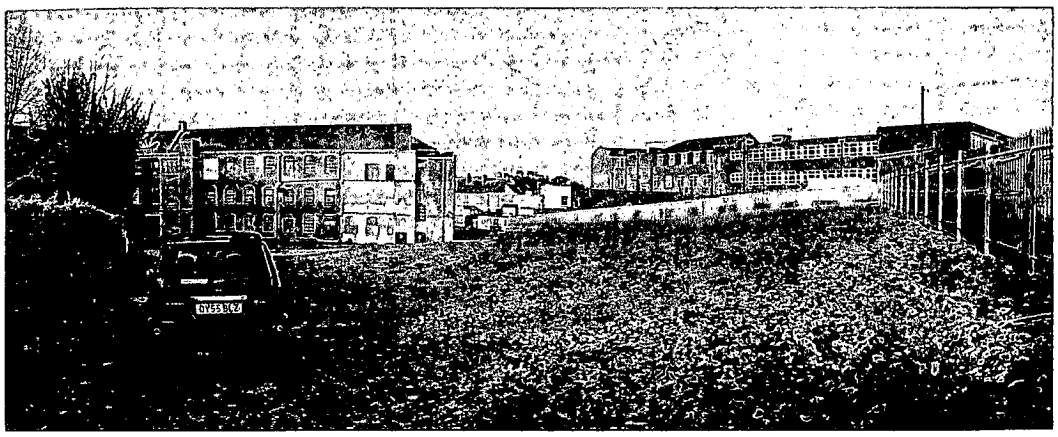

Plate 1. Recent demolition in area 1

Buildings

A large brick building known as the Goddard Building was present within area 1. The occasional male fern was recorded here growing out of cracks in the walls or gaps below the guttering. In the north-west of area 4 was a line of garages backing onto residential gardens. Accordingly, patches of garden escapees were recorded immediately in front of the garages within area 4 and along its northern boundary.



Plate 2. Rear elevation Goddard building in area 1

Ephemeral/short perennial

Within area 1, much of this habitat was found sparsely distributed close to the gate in the east of the site as well as around the edges of the building and the perimeter of the site. Within the remaining areas this habitat was typically recorded around the boundaries. Areas 3 and 4 also included patches of non-native garden escapees including clematis and oregano cultivars. In area 3, these were recorded to the rear of the 30 Lower Bond Street and in area 4 they were recorded growing over the gate and in front of the garages.

Species characteristic of ephemeral/short perennial habitat were commonly recorded within all four areas. Such species included occasional dandelion, oxford and common ragwort, common chickweed, broad-leaved dock, greater plantain, creeping buttercup and herb Robert.

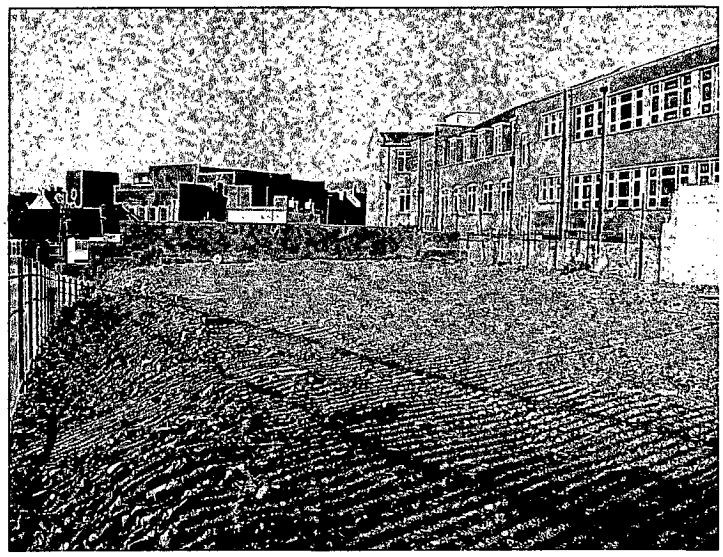

Plate 3. Ephemeral/short perennial habitat in areas 1 and 3

Introduced shrub

Buddleia was commonly recorded around the perimeter of all four areas. In addition to this a patch of cotoneaster was noted in area 3 to the rear of the building and garden.

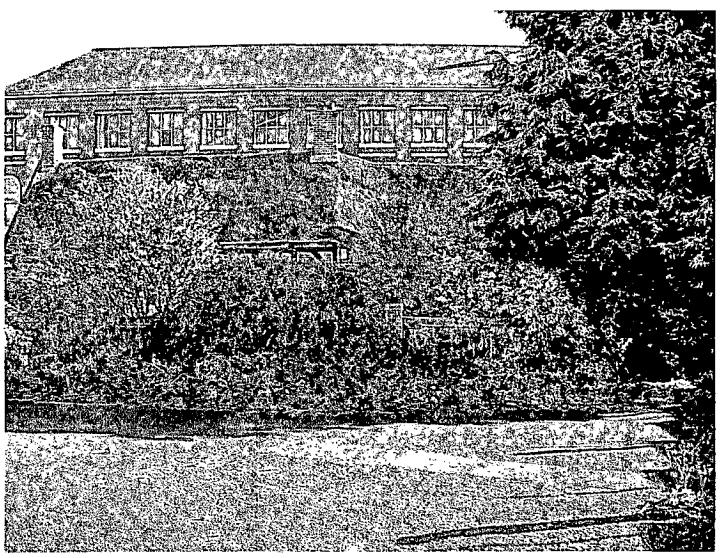

Plate 4. Introduced shrubs in area 3

Tall ruderal

This habitat was recorded within areas 1, 2 and 4 with a patchy distribution around the perimeter of each area. Typical species recorded included bramble, false oat-grass, common nettle, creeping thistle, broad-leaved willowherb, Canadian fleabane, smooth sow thistle and hedge parsley.

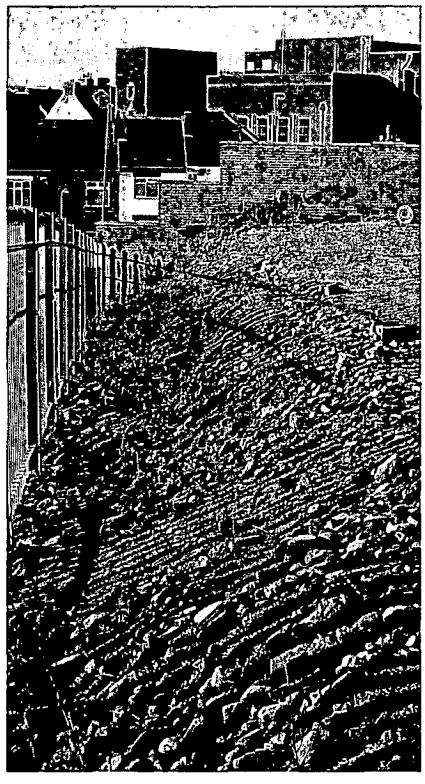

Plate 5. Tall herbs recorded in area 2

3.2.2 Species

The following species were recorded at the Site on 22nd November 2008.

Birds

Mistle thrush, greenfinch, blackbird and starling were noted within the grounds of the Great Meeting Chapel, to the east of the Goddard Building and outside area 1. At some point during the survey all of these birds, plus carrion crow were also noted overhead.

Within and adjacent to areas 3 and 4, pied wagtail, dunnock and blue tit were all recorded.

4.0 EVALUATION

4.1 NATURE CONSERVATION SITES

The desk-top study did not indicate the presence of any statutory sites within 1km of the Site. The closest non-statutory site was Clarendon Park and its associated Wildlife Sites approximately 600m from the Site. Due to the distance from the Site it is not considered likely that these Wildlife Sites will be adversely affected by any proposed development within the survey area.

4.2 HABITAT EVALUATION

Presented in Table 2 is a summary and evaluation of the ecological habitats recorded on the Site:

Table 2. Summary evaluation of habitats on Site

Habitat	LBAP habitat	UKBAP habitat	Overall Importance
Hardstanding			Low
Buildings			Medium –support bats and nesting birds, see supplementary bat report
Introduced shrub			Low – although non-native, buddleia is attractive to butterflies
Ephemeral/short perennial			Low
Tall ruderal			Low

4.3 SPECIES EVALUATION

The desk-top study identified six protected species records within 1km of the Site. The potential for the presence of protected species on Site is described as follows:

Bats

Please refer to the supplementary bat report "Bat Survey Report at The Goddard Building, Lower Bond Street, Hinckley" undertaken by Ecolocation in October 2008, which assesses the potential of the Goddard Building for its use by bats. It should be noted that the use of this building by bats has been confirmed.

Badgers

No signs of badgers such as setts, latrines, paths or hairs were recorded within the Site and there were few if any features capable of supporting this species. The surrounding urban environment is also of limited value to badgers. There is a LOW potential for badgers on Site.

Great Crested Newt

There were no watercourses present within the site (nor any recorded nearby) and the terrestrial habitat is considered sub-optimal for use by great crested newts. As such the Site is classified as having LOW great crested newt potential.

Reptiles

The patches of ruderal vegetation within the Site are small and sparsely distributed within a hostile, urban environment, largely unsuitable for use by foraging, basking or overwintering reptiles. The Site has a LOW potential for reptiles.

Otter

No watercourses were present within or close to the Site and the potential for this species is considered LOW.

Water vole

No watercourses were present within or close to the Site. The potential for this species on Site is considered LOW.

White-clawed crayfish

No watercourses were present within or close to the Site and the ditch along the northern boundary was dry. The potential for this species on Site is considered LOW.

Dormice

No suitable features for use by this species were recorded on Site and therefore its potential presence on Site is considered LOW.

Breeding birds

Several common bird species were recorded flying over areas 1, 3 and 4. Mistle thrush are amber listed although these were largely recorded in the Great Meeting Chapel grounds adjacent to area 1. The scattered shrubs within the Site such as elder or buddleia provide only limited opportunities for breeding birds. It is more likely that the existing Goddard Building may support nesting birds, as feral pigeon were noted within area 1 at the time of the survey. As such there is a MEDIUM potential for breeding birds within the Site.

4.4 CONCLUSION

Although the Phase 1 survey was conducted at a sub-optimal time of year, the habitats present are generally not considered to be typically species-rich. Therefore, the findings are considered to offer a satisfactory analysis of the ecological value of the Site.

To summarise, the Site (with the exception of the Goddard Building) provided habitats of only limited ecological value for use by protected or notable species.

The supplementary bat report confirms the use of the Goddard Building by bats and possible nesting birds and makes appropriate recommendations to safeguard these species within the Site.

The remaining habitats offer limited connectivity through the site and have a low intrinsic ecological value.

5.0 RECOMMENDATIONS

The desk-top study and the Phase 1 Habitat Survey of the Site indicated the potential for protected species, such as bats, to be within the area for proposed development. The supplementary bat report confirms the use of the Goddard Building by bats and possible nesting birds. Although the exact nature of the proposed development is unknown, in order to safeguard protected species that do occur on Site the following additional ecological surveys are recommended prior to determination:

- The bat report by ECOLOCATION in October 2008 was undertaken in response to the intention to re-roof the Goddard Building. However, the Phase 1 survey was undertaken in relation to the redevelopment of the whole site. As bats have been confirmed using the site and the current proposed works could enclose the area used by this species, thereby resulting in disturbance, a licence from Natural England will be required to carry out the works. In order to inform the licence application, evening activity and/or dawn swarming surveys should be undertaken during May-September in accordance with the BCT 'Bat Survey Guidelines' (2007). The resultant mitigation design should also accompany the planning application.

As recommended by the supplementary bat report:

- Subject to the timing of any works the buildings should be surveyed prior to commencement for the presence of active nests of breeding birds by a person competent to do so. Any evidence of such activity at that stage should be taken into account and disturbance avoided until young birds are fledged and have left the nest(s).

The following, more general, recommendation is also made:

- There is scope for biodiversity enhancement in accordance with PPS9: Biodiversity and Geological Conservation within the Site. This could include an appropriate soft landscaping scheme of local, native species of trees and shrubs attractive to birds/butterflies or night-scented flowers attractive to moths/bats. Any soft landscaping scheme should aim to maximise connectivity through the site for the

purposes of maintaining and enhancing flightlines for use by bats and birds, in particular. Further details can be provided if required.

APPENDIX 6.1

REFERENCES

BSI (2005) *Trees in Relation to Construction. BS 5837:2005*

The Conservation (Natural Habitats &c) Regulations (1994) HMSO

Ecolocation (2008) *Bat Survey Report at The Goddard Building, Lower Bond Street, Hinckley* Unpublished.

IEA (1995) *Guidelines for Baseline Ecological Assessment.* Institute of Environmental Assessment, E & FN Spon.

JNCC (1993) *Handbook for Phase 1 Habitat Survey: A technique for environmental audit.* Joint Nature Conservation Committee, Peterborough.

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Planning Policy Statement 9: Biodiversity and Geological Conservation (2005) HMSO

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Stace, C (1997) *New flora of the British Isles.* Cambridge University Press

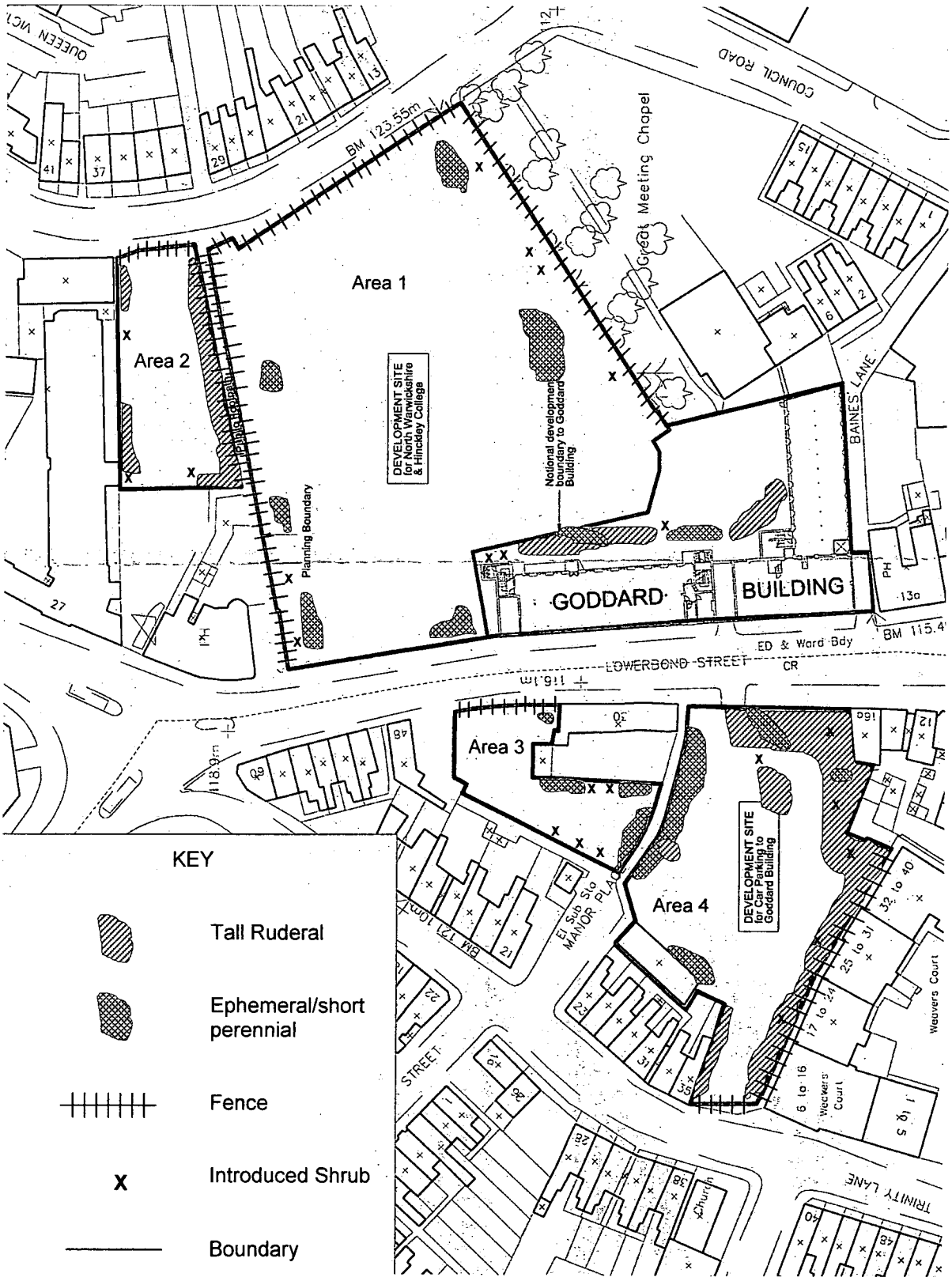
UK BAP www.ukbap.org.uk

Wildlife & Countryside Act (1981) HMSO

Site Plan reproduced by kind permission of Corstorphine & Wright, H&BBC and RPS

APPENDIX 6.2

ECOLOCATION



SITE MAP

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APPENDIX 6.2



ECOLOCATION

APPENDIX 6.3

Phase 1 Habitat Survey Species lists 22/11/08.

Area 1

Annual meadow-grass *Poa annua*
Bramble *Rubus fruticosus agg.*
Broad-leaved dock *Rumex obtusifolius*
Broad-leaved willowherb *Epilobium montanum*
Buddleia
Canadian fleabane *Conyza Canadensis*
Common chickweed *Stellaria media*
Common nettle *Urtica dioica*
Common ragwort *Senecio jacobaea*
Creeping buttercup *Ranunculus repens*
Creeping thistle *Cirsium arvense*
Dandelion spp. *Taraxacum spp.*
Elder *Sambucus nigra*
False oat-grass *Arrhentherum elatius*
Greater plantain *Plantago major*
Herb-robert *Geranium robertianium*
Male fern *Dryopteris filix-mas*
Nipplewort *Lapsana communis*
Oxford ragwort *Senecio squalidus*
Perennial rye-grass *Lolium perenne*
Smooth sow thistle *Sonchus oleraceus*

Area 2

Bramble *Rubus fruticosus agg.*
Broad-leaved willowherb *Epilobium montanum*
Buddleia
Common chickweed *Stellaria media*
Common ragwort *Senecio jacobaea*
Dandelion spp. *Taraxacum spp.*
Elder *Sambucus nigra*
Nipplewort *Lapsana communis*
Oxford ragwort *Senecio squalidus*
Upright hedge parsley *Torilis japonica*
Smooth sow thistle *Sonchus oleraceus*

Area 3
Bramble *Rubus fruticosus agg.*
Buddleia
Centranthus spp.
Cleavers *Galium aparine*
Clematis, *Clematis tangutica*
Common chickweed *Stellaria media*
Common mouse-ear *Cersatium holosteoides*
Common ragwort *Senecio jacobaea*
Cotoneaster
Dandelion spp. *Taraxacum spp.*
Dead-nettle spp. *Lamium spp.*
Elder *Sambucus nigra*
Hedge bindweed *Calystegia sepium*
Herb-robert *Geranium robertianium*
Male fern *Dryopteris filix-mas*
Origanum spp.
Oxford ragwort *Senecio squalidus*
Perennial rye-grass *Lolium perenne*
Poppy (cultivar) *Papaver spp.*
Rowan *Sorbus aucuparia*
Smooth sow thistle *Sonchus oleraceus*
Wavy bittercress *Cardamine flexuosa*
Yew *Taxus baccata*

Yorkshire fog *Holcus lanatus*

Area 4
Autumn hawkbit *Leontodon autumnalis*
Broad-leaved willowherb *Epilobium montanum*
Buddleia
Canadian fleabane *Conyza Canadensis*
Cleavers *Galium aparine*
Clematis spp.
Colt's foot *Tussilago farfara*
Common chickweed *Stellaria media*
Common nettle *Urtica dioica*
Dandelion spp. *Taraxacum spp.*
Elder *Sambucus nigra*
False oat-grass *Arrhenatherum elatius*
Herb-robert *Geranium robertianium*
Oxford ragwort *Senecio squalidus*
Rose-of-Sharon *Hypericum calycinum*
Smooth sow thistle *Sonchus oleraceus*
Spear thistle *Cirsium vulgare*
White clover *Trifolium repens*
Yew *Taxus baccata*
Yorkshire fog *Holcus lanatus*

Casual sightings

Mistle thrush - c.10 in trees outside site adjacent to Great Meeting Chapel (s.e.) boundary of area 1
Greenfinch - c.10 in trees outside site adjacent to Great Meeting Chapel (s.e.) boundary of area 1
Starling – 1 in trees outside site adjacent to Great Meeting Chapel (s.e.) boundary of area 1
Feral pigeon – area 1
All of the above noted overhead at some time during the survey, to east of Goddard Building
Blackbird – 1 Great Meeting Chapel hedge, adjacent to area 1
Carrion Crow – 2 overhead n.w. area of main (Goddard Building) site
Pied wagtail – 1 overhead west of 30 Lower Bond Street, area 3
Dunnock – rear gardens r/o 23-35 Trinity Lane, area 4
Blue tit – leylandii – s.w. corner, garden of 30 Lower Bond Street, area 3

Leicestershire Environmental Resources Centre

Leicestershire County Council

APPENDIX 6.4

Biodiversity Information Report

Addressee.name	Sharon
Addressee.position	Administration Team
Addressee.organisation	George Burton ARCHITECTURE & ECOLOGY Ltd
Addressee.address	The Old Dairy 25 Brookside Stretton-On-Dunsmore Rugby Warwickshire CV23 9NH
Addressee.fax	
Coverage.spatial	1km radius of grid ref SP425941
Coverage.services	1. Statutory & non-statutory sites. 2. Protected species 3. Notable species
Creator	☐ **Darwyn Sumner** **Senior Information Officer** Holly Hayes, 216 Birstall Road, Birstall, Leicestershire, LE4 4DG Tel: 0116 267 0008 Email: dsumner@leics.gov.uk ☑ **Elaine Connor** **Assistant Projects Officer** Holly Hayes, 216 Birstall Road, Birstall, Leicestershire, LE4 4DG Tel: 0116 267 0010 Email: econnor@leics.gov.uk
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Mandate	Biodiversity Information Enquiry
Publisher	Leicestershire Environmental Resources Centre
Rights.copyright	Leicestershire County Council
Source	Leicestershire Environmental Resources Centre
Status	Version 6
Subject	Biodiversity Information Enquiry
Title	Data search
Type	Standard

Confidentiality

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Environmental Exceptions (12(5)(g) and others) within the meaning of the Act apply to the information contained within this report which may therefore not be published or in any way disclosed to a third party without first negotiating with Leicestershire Environmental Resources Centre and the parties for whom it acts.
Leicestershire Environmental Resources Centre publishes on the NBN Gateway.

This report contains sensitive information about the location of protected species and has been provided in confidence to assist you in your work. Because of this OS Grid References must be withheld from documents destined for public consumption.

The following is part of LERC's "Terms of Use" agreed with data providers:
"Data may be used as required in support of the planning process, but will not be made public in any other documents or in any other media without written permission from LERC. If items of a sensitive nature are indicated by LERC, published grid references will not locate them with accuracy greater than 1km without written permission from LERC."

Guidelines to LERC's biodiversity information services

This brief guide to Leicestershire Environmental Resources Centre's commercial biodiversity information services is provided as an outline of typical procedures and interpretation.

Procedure

A typical request for biodiversity information will take the following path:

1 Initial request from client in which the individual 1Km squares are listed, together with a list of the biodiversity information required - the following example would be sufficient:

"Grantham Canal species 1Km squares: SK7635, SK7735, SK7835, SK7634, SK7734, SK7834.

a. Statutory & non-statutory sites.

b. Protected species, [BAP], [BoCC], [HSDir], [WCAct],

[c. Key species inventory],

[d. Red Data Book species = IUCN 1994]"

- items in square brackets are optional, their inclusion will increase the time needed to do the job

2 LERC responds with an Authorisation form, usually sent and received back by fax. If we have reason to suppose you are a new client we would also send you a copy of our Charging Policy and Guide to Protected Species legislation.

3 LERC carries out the work within 10 working days (except for larger jobs) and sends it to you electronically (nowadays we are able to produce almost everything as Adobe pdf files.)

4 We send our Estimate to our LCC Finance Department for processing (we do not deal with Invoices directly) and you receive an Invoice from them.

For more complex jobs please consult LERC staff (Elaine Connor or Darwyn Sumner). Our use of GIS means we can produce a better job using the client's own GIS shape files to precisely define the study areas.

Please note that a check on the NBN Gateway (www.searchnbn.net) - where we have placed our sites and species records - may be an informative first step.

Species searches

Reports are created by referencing lists of species which are maintained in groups as follows:

1. Species protected through National & International Legislation

These are taken mainly from the CRoW Act, WCAct & Biodiversity Action Plans and form the core area of interest for legislation.

A. Our **Protected species list** is recommended as the one which provides maximum cover of species designated under various legislation and comprises the following:

- CRoW Act Section 74 species (= section 42 of NERC Act)
- BAP species (Habitat Regulations)
- Protection of Badgers Act 1992
- Wildlife & Countryside Act 1981 (the killing/injuring categories not necessarily present in CRoW or local BAP)
- Species described under the terms of Data Exchange Agreements with regional recording groups (e.g. selected items from KSI)
- KSI species currently being used in Local Wildlife Site criteria (see "Guide to protected species: Policy and Legislation")

We are able to produce additional lists which cover just individual legislation as follows:

1. **The UK Biodiversity Action Plan (BAP)** - all species in the region which fall into the UK plan, this will also include species not selected for special attention by Leicester, Leicestershire & Rutland Biodiversity Action Plan; for example it includes The National Forest's BAP species (Adder, Bluebell, Ruddy Darter dragonfly)
2. **Birds of Conservation Concern (BoCC)** - the RSPB's Red and Amber species.
3. **Habitats & Species Directive (HSDir)** - see Defra's website www.defra.gov.uk/wildlife-countryside
4. **Wildlife & Countryside Act (WCAct)** - this replaces and incorporates previous legislation including the Berne Convention, & the EC Habitats Directive and takes into account all the Schedules within the Countryside & Rights of Way (CRoW) Act 2000 (see www.jncc.gov.uk).
5. **CRoW Act Section 74** - misleading to use on its own as it omits some species in the **Habitats & Species Directive (HSDir)**, the **UK Biodiversity Action Plan** and others.

2. Key species inventory (KSI)

- All the species listed in Lott, 1997
- Additional species groups not listed in the 1997 inventory but published elsewhere (e.g. Bryophytes)
- Additional species added from time to time when species on the various Red lists are discovered in Leicestershire and Rutland
- Any published revision to the Leicestershire & Rutland Key Species Inventory

We are also able to produce KSI lists based on individual groups such as birds, flowering plants, lepidoptera, spiders etc.

3. Red lists and Red Data Book species (RDB)

International Union for the Conservation of Nature & Natural Resources (IUCN 1994) - this organisation replaces the Red Data Book categories, see www.iucn.org

Maps

Maps produced for a single area of study depict the following categories of sites of wildlife interest:

1 Non-statutory sites: Local Wildlife Sites (standard map)

The current evaluation system is termed "Local Wildlife Sites", elsewhere in the country termed "SINCs"or even "SNCIs". The evaluation criteria are published in *Guidelines for the selection of Sites of Importance for Nature Conservation in Leicester, Leicestershire and Rutland* by a partnership including Leicestershire county Council, Leicester City Council, English Nature, Charnwood Wildlife & Leicestershire & Rutland Wildlife Trust in 2001 (copies available from this office). Revision 3 of these guidelines is to be published shortly. This system forms the only valid one for local authorities' Local Plans.

The following system is discontinued as a practise but remains on our reports and maps as it still contains valuable data:

2 Non-statutory sites: Phase 1 evaluation (standard map)

An ecological site evaluation system was employed by the Ecology Unit of Leicestershire Museums, Arts and Records Service for a number of years. Many hundreds of Phase 1 habitat surveys were carried out under this system which resulted in the development of a 3-tier categorisation (**Parish, District and County - level sites**) which was used to inform past plans. A good deal of survey information, including species lists, is held at LERC as a result of these surveys and on the whole this material remains in paper form.

The map is a useful guide to sites that have been surveyed and considered important under the original system. This system under which the Parish, District and County level sites were identified has now been discontinued. It has been superseded by a new Local Wildlife Site (LWS) system, which concentrates on evaluating Local Wildlife Sites only. Parish, District and County level sites may still retain some or all of their ecological value and with appropriate management may have improved. They are all classed as potential Local Wildlife Sites (pLWS) and are being resurveyed to establish their current status.

3 Statutory sites and others (standard map)

A map of the Statutory sites (SSSIs etc.) and others (e.g. Leicestershire & Rutland Wildlife Trust reserves) are normally included with the above two standard maps unless they obscure other details. Separate maps may be produced on request. Data sheets and formal Citations may be requested from LERC on the statutory areas depicted.

4 Biodiversity Action Plan habitats (on request)

The Leicester, Leicestershire & Rutland Biodiversity Action Plan prioritises 18 "at-risk" habitats in the region. Whilst the current evaluation system for Local Wildlife Sites includes plans to assess all the habitats detailed in the BAP, this work will take some time to complete. Maps depicting the habitats (biotopes) are currently available for the following:

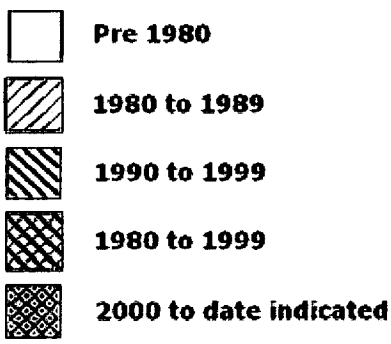
H01: Heath Grassland	H02: Hedgerows	H03: Mature trees
H04: Calcareous grassland	H07: Floodplain wetland	H08: Reedbeds
H16: Roadside verges	H17: Parkland	H18: Broadleaved woodland

These are also available in GIS formats, please request our **Data Use Agreement**.

5 Protected species

As an aid to the interpretation of the protected species lists and in response to requests by customers, these maps were introduced in September 2007 to improve our services. At the moment the production of an up-to-date layer is extremely time consuming so until we are able to develop a rapid system, please note the date on each "Protected species" map. Take care to examine the species lists as species records on these lists after the map's date will not appear on the map.

The map does not distinguish between different species, there is a limit to the amount of information which can be displayed by a single GIS layer on a single map. What the map depicts, as 100Km and 10Km square tiles, is the presence of a Protected species. The shading of the tiles indicates how long ago the records were made:



Site lists

Interpretation of site lists

Site lists are typically presented as follows:

1. **The 1Km square** into which each site occurs
2. **Location name.** This may differ from the Site name if the Site comprises more than one Location (see Reference)
3. Digitised **object** number. This uniquely identifies the digitised polygon and will be seen displayed on maps and on the NBN Gateway (if it is a Local Wildlife Site component)
4. **Grid ref.** The full grid reference - centroid of the location to 6 figures
5. **Status**: The current system of non-statutory Local Wildlife Sites is in this list as "Wildlife Sites", the discontinued system of three tiers (County, District and Parish) serve to indicate that surveys have been carried out in the past and may be obtained from LERC. Items prefixed Hnn are locations that have been flagged as belonging to the habitat which makes up the Leicester, Leicestershire and Rutland Biodiversity Action Plans; this does not automatically mean that they are Local Wildlife Sites but it most certainly means that they are scheduled for survey when time allows.
6. **Reference**: Document references (quoting these will enable us to locate older surveys should you wish further information). The bracketted number is the reference to the Local Wildlife Site.
7. **Area** (hectares)

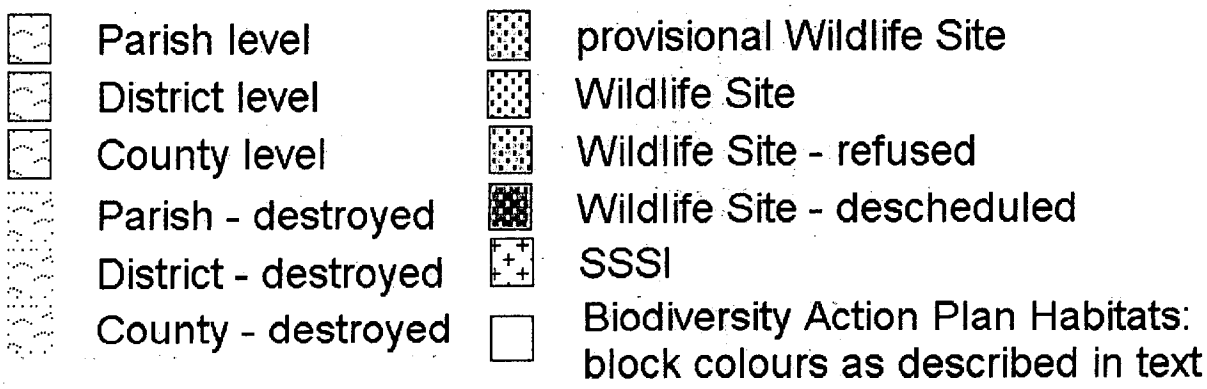
Map locations

1Km	Location name	Object	Grid ref	Status	Reference	Area (ha)
SK5016	Buck Hill, Wood Brook north	00001330		Wildlife Site	W5016/2 [25392]	0.02
SK5018	Holywell Wood	00013306		Wildlife Site	W5016/2/6 (13611)	6.73
SK5117	Woodland & Wetland (Wood Brook)	00016292		Parish level	1212.70.36.029	0.08
SK5017	Burleigh Wood	00017330		Wildlife Site	W5016/2/7 (25394)	8.48
SK5017	Charnwood Canal	00017335		Parish level	1217.70.36.028	0.93
SK5017	Nanpanton Resevoir	00017340		Parish level	1212.70.36.034	3.25
SK4918	Dismantled railway line.	00017345		Parish level	1212.70.36.025	1.94
SK5016	Nanpanton Hill	00017350		Parish level	1212.70.36.033	3.91
SK5116	Out Woods SSSI	00017355		SSSI	1233.20.28.22	63.71
SK4918	Woodland	00017366		Parish level	1212.70.36.026	0.35
SK5018	Woodland	00017371		Parish level	1212.70.36.027	0.87
SK4818	Home Coveri West.	00017376		District level	1222.10.52.058	4.16
SK4917	Longcliff Plantation	00017381		Parish level	1222.10.82.071	22.17
SK5016	Buck Hill, three outcrops	00023366		Parish level	1212.70.22.000	0.52

The list only includes non-statutory locations which have been digitised and are shown on the maps. There may be many more locations within the area searched, particularly those which are popular with amateur recorders (who provide about 80% of our species data) but do not necessarily record to precisely defined polygons or travel in time. The list of species provided elsewhere in this document may therefore refer to sites not listed.

Map legend

The following fill patterns and border colours are used to differentiate the different categories of site on the maps:



Please note that Biodiversity Action Plan Habitats are not normally supplied, those available may be included upon request but please be aware that they may obscure other detail.

References

Lott. D. 1997. *An Inventory of Key Species in Leicestershire and Rutland.* Leicestershire County Council

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Department of the Environment, 1995. The Habitats Directive: How it will apply in Great Britain. Department of the Environment, The Scottish Office, Joint Nature Conservation Committee

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Sumner, D., 2006. *Charging Policy 2006.* Leicestershire Environmental Resources Centre. Leicestershire County Council.

Leicestershire Environmental Resources Centre

County Council

Holly Hayes, 216 Birstall Road, Birstall, Leicestershire LE4 4DG
Fax: 0116 267 7112 Tel 0116 267 0010/0008 (Switchboard 0000)

Data search

Protected species

This map displays the distribution of Protected species. Last updated 07/Sep/2007. Please check the current lists in this report for more recent data.

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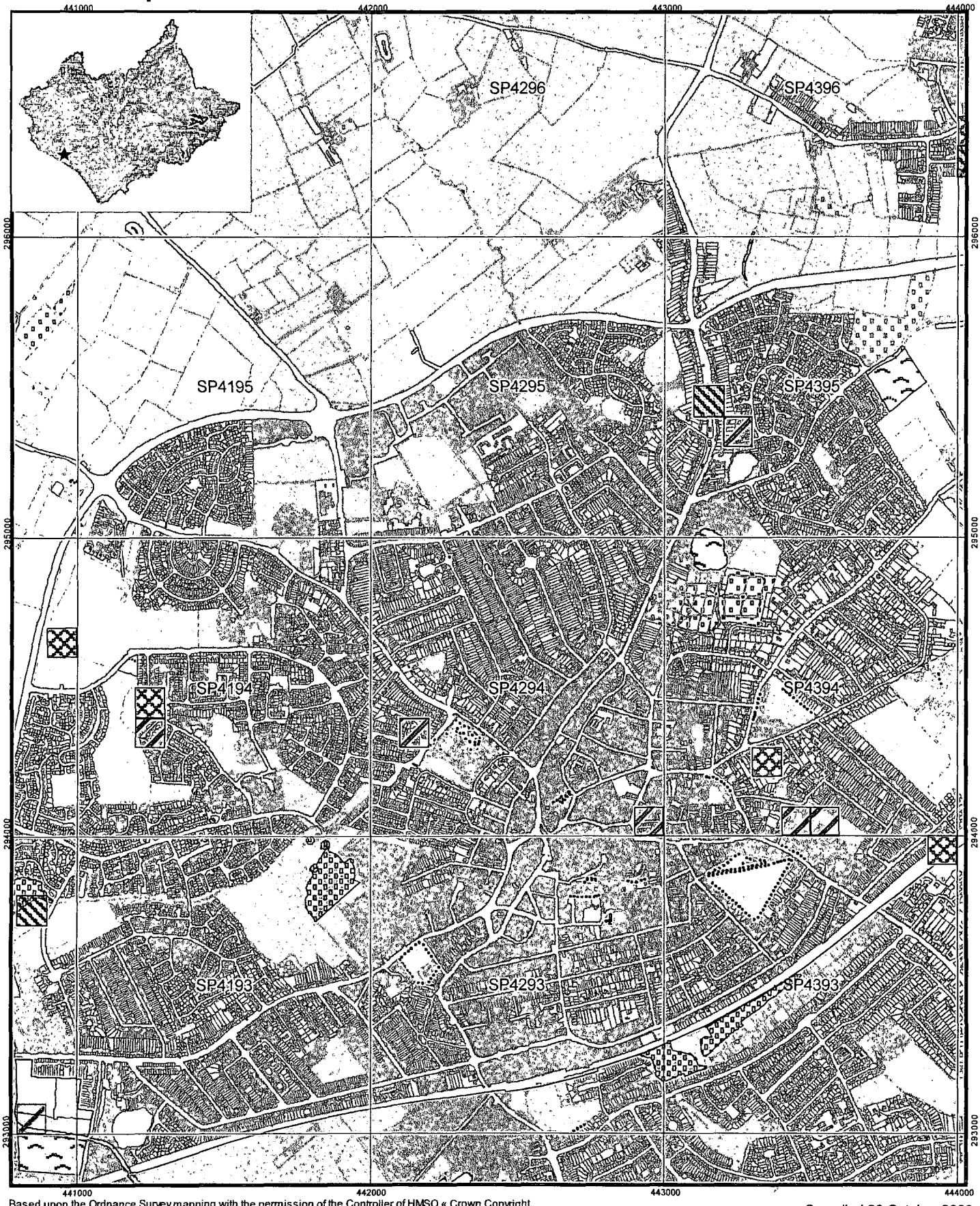
Job: 8128

Scale 1:17000



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216 Birstall Road
Birstall LE4 4DG

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Protected species

Selected Designated Species

Date	Location	Grid reference	Species		Recorder
1978 - 1982	Hinckley (and Barwell)		Natrix natrix	Grass Snake	D. J. Goldsmith
1978 - 1982	Hinckley (and Barwell)		Triturus cristatus	Great Crested Newt	D. J. Goldsmith
09/02/1983			Plecotus auritus	Brown Long-eared Bat	Jan Dawson
01/01/1987 - 31/12/1987			Natrix natrix	Grass Snake	Unknown
15/03/1988			Vespertilionidae	Vespertilionidae	Val Hennessy
04/08/1988	Bute Close (Bat roost)		Vespertilionidae	Vespertilionidae	Tony Mitchell-Jones
04/08/1988	Bute Close (Bat roost)		Chiroptera	Bats	Tony Mitchell-Jones
08/08/1988			Vespertilionidae	Vespertilionidae	Val Hennessy
11/08/1988			Vespertilionidae	Vespertilionidae	Val Hennessy
25/09/1988	Island Close (Bat roost)		Pipistrellus	Common Pipistrelle	Lucy Eakes
25/09/1988	Island Close (Bat roost)		Pipistrellus	Common Pipistrelle	Lucy Eakes
20/08/1989	Burbage Common		Sympetrum	Ruddy Darter	Helen Ikin
20/08/1989	Burbage Common		Sympetrum	Ruddy Darter	Helen Ikin
29/08/1990			Pipistrellus	Common Pipistrelle	Jan Dawson
09/06/1993			Pipistrellus	Common Pipistrelle	Jan Dawson
01/01/1998 - 31/12/1998	Burbage Common		Arvicola terrestris	European Water Vole	Bernard Gibney
08/06/2000	Ashby Road, Hinckley		Chiroptera	Chiroptera	Ray Cole
14/03/2004	Outlands Road, Nr A47, Hinckley Sett		Meles meles	Badger	Pam W. Mynott
18/12/2005	Railway Cutting, south bank Sett		Meles meles	Badger	Peter Mynott;Pam W. Mynott
30/06/2006	Glenbank (Bat roost)		Plecotus auritus	Brown Long-eared Bat	Jenny Harris
30/06/2006	Glenbank (Bat roost)		Chiroptera	Chiroptera	Jenny Harris
30/06/2006	Glenbank (Bat roost)		Pipistrellus	Pipistrellus	Jenny Harris
30/06/2006	Glenbank (Bat roost)		Myotis mystacinus	Whiskered Bat	Jenny Harris
19/03/2007	Hinckley - Hkly & Bos		Buteo buteo	Common Buzzard	Moore B
06/04/2007	Springfield Park		Triturus cristatus	Great Crested Newt	Bernard Gibney
09/07/2007	Hinckley - Hkly & Bos		Milvus milvus	Red Kite	per SML

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Holly Hayes
216 Birstall Road
Birstall LE4 4DG

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Date	Location	Grid reference	Species	Recorder

Total number of observations =26

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Holly Hayes
216 Birstall Road
Birstall LE4 4DG

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Key Species

Key species inventory: Leicestershire & Rutland (Leicestershire Biodiversity Action

Date	Location	Grid reference	Species		Recorder
01/01/1941	Hinckley (and Barwell)		Campyliadelphus chrysophyllus	Golden Feather-moss	A.R. Horwood
1978 - 1982	Hinckley (and Barwell)		Alauda arvensis	Sky Lark	D. J. Goldsmith
1978 - 1982	Hinckley (and Barwell)		Alcedo atthis	Common Kingfisher	D. J. Goldsmith
1978 - 1982	Hinckley (and Barwell)		Anas clypeata	Northern Shoveler	D. J. Goldsmith
1978 - 1982	Hinckley (and Barwell)		Anas crecca	Eurasian Teal	D. J. Goldsmith
1978 - 1982	Hinckley (and Barwell)		Aythya ferina	Common Pochard	D. J. Goldsmith
1978 - 1982	Hinckley (and Barwell)		Aythya fuligula	Tufted Duck	D. J. Goldsmith
1978 - 1982	Hinckley (and Barwell)		Carduelis cannabina	Common Linnet	D. J. Goldsmith
1978 - 1982	Hinckley (and Barwell)		Columba oenas	Stock Pigeon	D. J. Goldsmith
1978 - 1982	Hinckley (and Barwell)		Cygnus olor	Mute Swan	D. J. Goldsmith
1978 - 1982	Hinckley (and Barwell)		Emberiza schoeniclus	Reed Bunting	D. J. Goldsmith
1978 - 1982	Hinckley (and Barwell)		Falco tinnunculus	Common Kestrel	D. J. Goldsmith
1978 - 1982	Hinckley (and Barwell)		Fulica atra	Common Coot	D. J. Goldsmith
1978 - 1982	Hinckley (and Barwell)		Gallinago gallinago	Common Snipe	D. J. Goldsmith
1978 - 1982	Hinckley (and Barwell)		Hirundo rustica	Barn Swallow	D. J. Goldsmith
1978 - 1982	Hinckley (and Barwell)		Larus ridibundus	Black-headed Gull	D. J. Goldsmith
1978 - 1982	Hinckley (and Barwell)		Motacilla cinerea	Grey Wagtail	D. J. Goldsmith
1978 - 1982	Hinckley (and Barwell)		Muscicapa striata	Spotted Flycatcher	D. J. Goldsmith
1978 - 1982	Hinckley (and Barwell)		Numenius arquata	Eurasian Curlew	D. J. Goldsmith
1978 - 1982	Hinckley (and Barwell)		Oenanthe oenanthe	Northern Wheatear	D. J. Goldsmith
1978 - 1982	Hinckley (and Barwell)		Passer montanus	Eurasian Tree Sparrow	D. J. Goldsmith
1978 - 1982	Hinckley (and Barwell)		Phylloscopus collybita	Common Chiffchaff	D. J. Goldsmith
1978 - 1982	Hinckley (and Barwell)		Phylloscopus sibilatrix	Wood Warbler	D. J. Goldsmith
1978 - 1982	Hinckley (and Barwell)		Picus viridis	Green Woodpecker	D. J. Goldsmith
1978 - 1982	Hinckley (and Barwell)		Pluvialis apricaria	European Golden Plover	D. J. Goldsmith
1978 - 1982	Hinckley (and Barwell)		Podiceps cristatus	Great Crested Grebe	D. J. Goldsmith

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Holly Hayes
216 Birstall Road
Birstall LE4 4DG

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Date	Location	Grid reference	Species		Recorder
1978 - 1982	Hinckley (and Barwell)		Prunella modularis	Hedge Accentor	D. J. Goldsmith
1978 - 1982	Hinckley (and Barwell)		Pyrrhula pyrrhula	Common Bullfinch	D. J. Goldsmith
1978 - 1982	Hinckley (and Barwell)		Rallus aquaticus	Water Rail	D. J. Goldsmith
1978 - 1982	Hinckley (and Barwell)		Streptopelia turtur	European Turtle Dove	D. J. Goldsmith
1978 - 1982	Hinckley (and Barwell)		Sturnus vulgaris	Common Starling	D. J. Goldsmith
1978 - 1982	Hinckley (and Barwell)		Sylvia atricapilla	Blackcap	D. J. Goldsmith
1978 - 1982	Hinckley (and Barwell)		Tadorna tadorna	Common Shelduck	D. J. Goldsmith
1978 - 1982	Hinckley (and Barwell)		Turdus merula	Common Blackbird	D. J. Goldsmith
1978 - 1982	Hinckley (and Barwell)		Turdus philomelos	Song Thrush	D. J. Goldsmith
1978 - 1982	Hinckley (and Barwell)		Tyto alba	Barn Owl	D. J. Goldsmith
1978 - 1982	Hinckley (and Barwell)		Vanellus vanellus	Northern Lapwing	D. J. Goldsmith
1978 - 1982	Hinckley (and Barwell)		Perdix perdix	Grey Partridge	D. J. Goldsmith
1978 - 1982	Hinckley (and Barwell)		Prunella modularis	Hedge Accentor	D. J. Goldsmith
1978 - 1982	Hinckley (and Barwell)		Tachybaptus ruficollis	Little Grebe	D. J. Goldsmith
1978 - 1982	Hinckley (and Barwell)		Triturus cristatus	Great Crested Newt	D. J. Goldsmith
1978 - 1982	Hinckley (and Barwell)		Campanula trachelium	Nettle-leaved Bellflower	D. J. Goldsmith
1978 - 1982	Hinckley (and Barwell)		Persicaria bistorta	Common Bistort	D. J. Goldsmith
1978 - 1982	Hinckley (and Barwell)		Populus nigra	Black-poplar	D. J. Goldsmith
20/08/1989	Burbage Common		Sympetrum sanguineum	Ruddy Darter	Helen Ikin
20/08/1989	Burbage Common		Sympetrum sanguineum	Ruddy Darter	Helen Ikin
27/08/1989	Sheepy Wood		Xylota tarda	Xylota tarda	Neil Frankum
1996	Clarendon Park, Hinckley		Pluvialis apricaria	Golden Plover	Kirk Lathbury
April 1997	Clarendon Park, Hinckley		Gallinago gallinago	Snipe	Kirk Lathbury
26/10/1997	Clarendon Park, Hinckley		Carduelis carduelis	Goldfinch	Kirk Lathbury
26/10/1997	Clarendon Park, Hinckley		Gallinago gallinago	Snipe	Kirk Lathbury
21/10/2006	Hinckley - Hkly & Bos		Falco tinnunculus	Common Kestrel	Panter GC
06/04/2007	Springfield Park		Triturus cristatus	Great Crested Newt	Bernard Gibney
25/03/2008	Land opposite superstore, Stoke Road		Sturnus vulgaris	Starling	FPCR

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Holly Hayes
216 Birstall Road
Birstall LE4 4DG

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Date	Location	Grid reference	Species		Recorder
25/03/2008	Land opposite superstore, Stoke Road		Turdus merula	Blackbird	FPCR
04/04/2008	Hinckley - Hkly & Bos		Phylloscopus collybita	Common Chiffchaff	Bradley GD

Total number of observations =56

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Map locations

1Km	Location name	Object	Grid ref	Status	Reference	Area (ha)
SP4093	Grasslands	00014160		Parish (damaged)	1408.12.81.253	1.94
SP4093	Grasslands	00014165		Parish (damaged)	1408.12.81.253	1.22
SP4093	Grasslands	00014170		Parish (damaged)	1408.12.11.253	1.20
SP4093	Harrow Brook	00014180		Parish level	1408.12.81.191	0.09
SP4093	Ashby Canal	00014185		District level	1408.12.81.186,190,	4.27
SP4193	Clarendon Park Arboretum	00014207		Wildlife Site	SP49/08 [not listed] [	2.50
SP4395	Lake, in former quarry	00014252		Parish (descheduled)	1408.12.81.116	0.72
SP4295	Pond	00014288		Parish level	1408.12.81.128	0.02
SP4194	Marsh	00014293		Parish level	1408.12.81.200	0.28
SP4395	Hedgerow	00014314		Parish level	1408.10.96.002	0.16
SP4395	Semi-improved grassland	00014319		Parish level	1408.10.94.001	2.15
SP4395	Hedgerow	00014324		Parish level	1408.10.95.010	0.13
SP4394	Pond	00014329		Parish level	1408.12.81.118	1.31
SP4495	Barwell Lane	00016318		Parish level	1408.10.94.004	0.93
SP4495	Pond	00016323		Parish level	1408.10.94.005	0.04
SP4495	Pond	00016362		Parish level	1408.12.81.048	0.02
SP4495	Mature Ash, off Barwell Lane	00021875		Wildlife Site	SP49/07 [25871]	0.04
SP4093	Brodick Road Flood Retention Area	00027004		Wildlife Site	SP49/10 [25873]	2.13
SP4393	Courting Stiles	00027009		Wildlife Site	SP49/15 [25878]	1.60
SP4193	Mature Ash 3, Clarendon Park	00014190		Wildlife Site	SP49/04 [25868]	0.05
SP4193	Mature Ash 1, Clarendon Park	00014196		Wildlife Site	SP49/02 [25866]	0.06
SP4193	Mature Ash 2, Clarendon Park	00014201		Wildlife Site	SP49/03 [25867]	0.05
SP4495	Mature Oak, off Barwell Lane	00021870		Wildlife Site	SP49/06 [25870]	0.08
SP4393	Burbage Flood Retention Area	00026999		Wildlife Site	SP49/05 [25869]	1.41
SP4495	Burbage Common & Woods - Burbage Common	00016328		Wildlife Site	SP49/01 [25865]	26.44

Leicestershire Environmental Resources Centre
County Council

Holly Hayes, 216 Birstall Road, Birstall, Leicestershire LE4 4DG
Fax: 0116 267 7112 Tel 0116 267 0010/0008 (Switchboard 0000)

Data search

Ref.: Job no. 8128

Section: Hinckley & Bosworth

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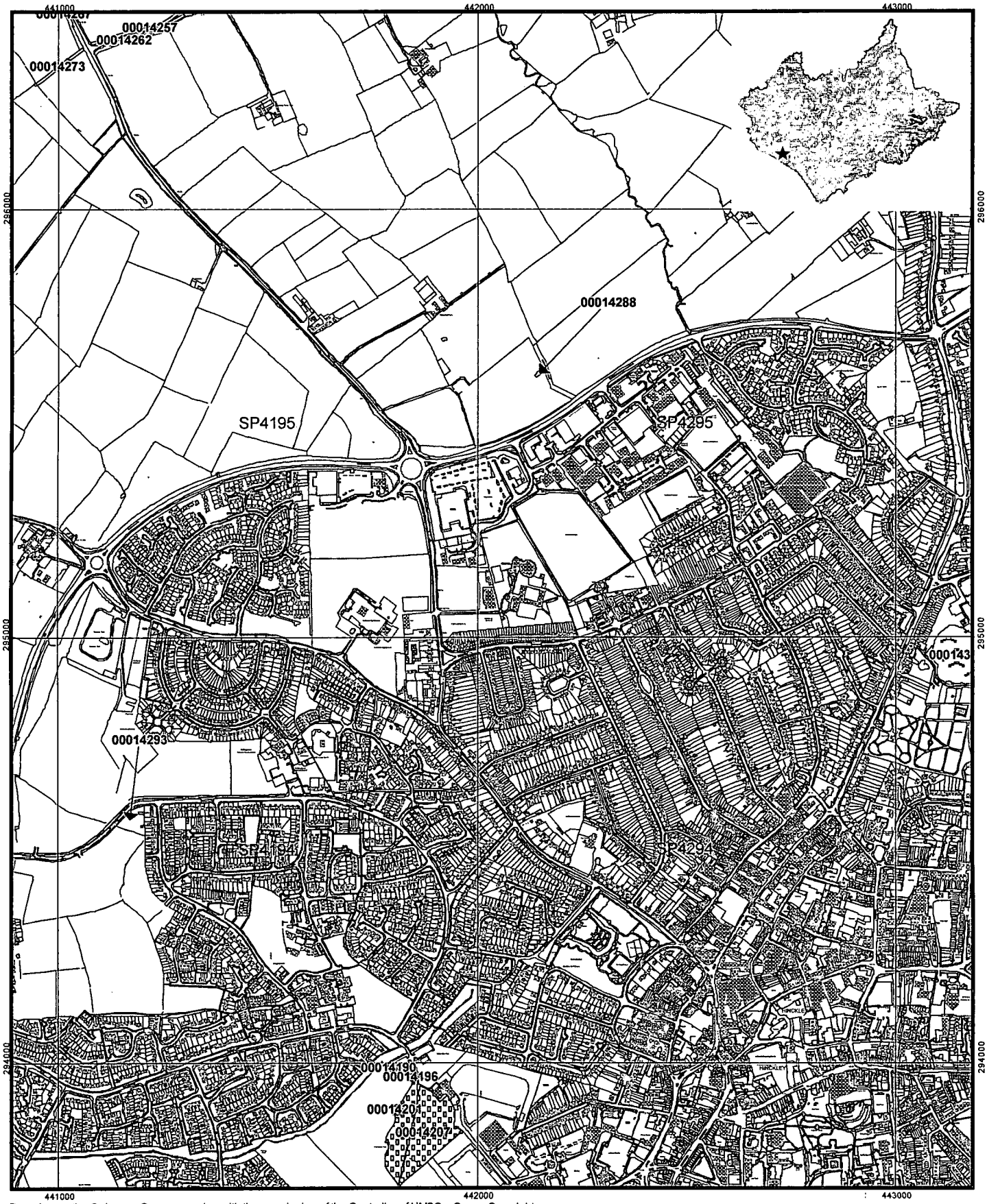
Scale 1:12000



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Fax: 0116 267 7112 Tel 0116 267 0010/0008 (Switchboard 0000)

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