DEVELOPMENT
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EXTENDED PHASE 1 HABITAT SURVEY

29 MOORE ROAD
BARWELL
LEICESTERSHIRE

A Report to Khoury Architects

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July 2009

EXTENDED PHASE 1 HABITAT SURVEY

29 MOORE ROAD
BARWELL
LEICESTERSHIRE

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01 OF 02

01 KHOURY ARCHITECTS
02 MIDDLEMARCH ENVIRONMENTAL LTD

This report was compiled by:
John Polley AIEEM

The contents of this report are the responsibility of Middlemarch Environmental Ltd.
It should be noted that, whilst every effort is made to meet the client's brief,
no site investigation can ensure complete assessment
or prediction of the natural environment.

Contract Number C105404

July 2009

EXECUTIVE SUMMARY

Middlemarch Environmental Ltd was commissioned by Khoury Architects to carry out an initial ecological appraisal for the proposed re-development of 29 Moore Road located in Barwell. To fulfil this brief an ecological desk study and Extended Phase I Habitat Survey was undertaken.

The ecological desk study identified ten non-statutory nature conservation sites within 1 km of the proposed development site. It is unlikely that the works will affect the wildlife sites within 1 km of the site. However, if the nature of the works alters Leicestershire and Rutland Wildlife Trust must be consulted. The desk study provided multiple records of a range of protected/notable species of bird, reptile and mammal within a 1 km radius of the site.

The field survey was undertaken on 7th July 2009 by John Polley (Senior Ecological Consultant). The Extended Phase I Habitat Survey identified the presence of the following habitats within the survey area that are a notable consideration: scrub and scattered trees. Protected/notable species that have potential to occur on site and are a notable consideration include nesting birds and slow worm.

In order to ensure compliance with wildlife legislation and relevant planning policy, the following is recommended:

- A reptile survey should be undertaken prior to works commencing. This will determine if any slow worms are utilising the areas of scrub prior to its removal.
- All vegetation clearance works should be undertaken outside of the bird nesting season which runs from March to September inclusively. Any vegetation clearance works undertaken within this period should be checked prior to removal by a suitably qualified ecologist.
- Any excavation left overnight should be covered or fitted with wooden planks to provide trapped mammals a means of escape.

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1. INTRODUCTION

1.1 PROJECT BACKGROUND

In July 2009 Khoury Architects commissioned Middlemarch Environmental Ltd to undertake an initial ecological appraisal of the site of a proposed development at 29 Moore Road, Barwell in Leicestershire.

To fulfil the above brief to assess the existing ecological interest of the site, a desk study and an Extended Phase 1 Habitat Survey were undertaken on 7th July 2009.

1.2 SITE DESCRIPTION

The site is located within a rural setting in the centre of Barwell village in Leicestershire at National Grid Reference (NGR) SP 449 974. The survey area is rectangular in shape and measures 0.1 Ha in size. Moore Road forms the southern boundary of the site with a residential house (Number 31 Moore Road) to the east. A pub car park forms the western boundary, and a park borders the northern perimeter. The site is generally level in topography with habitats present including hardstanding, scrub, scattered trees and other habitat.

Land use around the site includes residential houses with their associated habitats, open parkland, hedgerows and mixed scattered trees. Within 1 km of the survey area, areas of agricultural fields with broadleaved woodland were present.

2. METHODOLOGY

2.1 DESK STUDY

A desk study was undertaken to determine the presence of any designated nature conservation sites and protected species that have been recorded within a 1 km radius of the site. This involved contacting appropriate statutory and non-statutory organisations which hold ecological data relating to the survey area. Middlemarch Environmental Ltd then assimilated and reviewed the desk study data provided by these organisations.

The consultees for the Desk Study were:

- Natural England - *MAGIC* website for statutory conservation sites;
- Leicestershire Environmental Resources Centre; and,
- National Biodiversity Network Gateway website.

The data collected from these consultees is discussed in Section 3. Raw data are provided in Appendix 1.

2.2 EXTENDED PHASE 1 HABITAT SURVEY

An Extended Phase 1 Habitat Survey was conducted following the methodology of JNCC (1993) as modified by IEA (1995). Phase 1 Habitat Survey is a standard technique for classifying and mapping British habitats. The aim is to provide a record of habitats that are present on site. During the survey, the presence, or potential presence, of protected species was noted. Data recorded during the field survey is discussed in Section 4.

A summary of legislation relevant to the ecology of the site is included in Appendix 2.

3. DESK STUDY RESULTS

3.1 INTRODUCTION

From the details provided by the consultees all relevant ecological data has been reviewed. The results from these investigations for the site are summarised below in Sections 3.2 and 3.3. Data are provided in Appendix 1.

3.2 NATURE CONSERVATION SITES

Reference to the Multi Agency Geographical Information for the Countryside (MAGIC) website and the local biodiversity information indicate that there are no nature conservation sites with statutory protection and 10 nature conservation sites with non-statutory protection occur within a 1 km radius of the survey area. These sites are summarised in Table 3.1.

Site Name	Designation	Proximity to Survey Area	Description
Non-statutory Sites			
Hedgerow 21484	Parish Level	520 m	None provided.
Grassland 21489	Parish Level	520 m	None provided.
Two Grasslands 28153	Parish Level	550 m	None provided.
Small Spinney 28158	Parish Level	650 m	None provided.
Grassland 21509	Parish Level	720 m	None provided.
Semi-improved Grassland 21479	Parish Level	750 m	None provided.
Marsh 21464	Parish Level	750 m	None provided.
Pond 21469	Parish Level	760 m	None provided.
Pond, in Grassland 21474	Parish Level	760 m	None provided.
Semi-improved Grassland 21459	Parish Level	800 m	None provided.
Key: Parish Level Wildlife Site according to Leicestershire Environmental Resource Centre wildlife site monitoring program.			

Table 3.1: Summary of Statutory Sites

3.3 PROTECTED SPECIES

Table 3.2 provides a summary of protected species records within a 1 km radius of the study area. It should be noted that the absence of records should not be taken as confirmation that a species is absent from the search area. Records of UK and local Biodiversity Action Plan have also been included within this table.

Species	No. of Records	Most Recent Record	Proximity of Nearest Record to Study Area	UK BAP?	Local BAP?	NERC?	Legislation
Reptiles							
Grass snake *Natrix natrix*	1	1978	770 m SW	-	-	-	WCA5s9
Birds							
Common buzzard *Buteo buteo*	1	2007	770 m SW	-	-	-	-
Mammals							
Common pipistrelle *Pipistrellus pipistrellus*	20	2009	750 m SW	-	✓	-	EPS, WCA5
Brown long-eared *Plecotus auritus*	1	1990	750 m SW	-	✓	-	EPS, WCA5
Bat species *Chiroptera*	15	1997	750 m SW	✓	✓	✓	EPS, WCA5
Badger *Meles meles*	1	1985	Within 1 km*	-	-	-	PBA

Key
**= Four figure grid reference only supplied, exact proximity to site not detailed*
$= Protects species from sale/trade only
EPS= European Protected Species under the Nature Conservation (& Habitats c.) Regulations 1994
WCA1 = Wildlife and Countryside Act 1981, as amended, Schedule 1
WCA5 = Wildlife and Countryside Act 1981, as amended, Schedule 5
WCA5s9 = Wildlife and Countryside Act 1981, as amended, Schedule 5, section 9
PBA = Protection of Badgers Act 1992

Table 3.2: Summary of Protected/Notable Species Records Within 1 km Radius of Study Site

4. EXTENDED PHASE 1 HABITAT SURVEY

4.1 INTRODUCTION

The results of the Extended Phase 1 Habitat Survey are presented in Section 4.2. An annotated Extended Phase 1 Habitat Survey Drawing (Middlemarch Environmental Ltd Drawing Number C105404-01) is attached in Appendix 3. This drawing illustrates the location and extent of all habitat types recorded on site. Any notable features or features too small to map are detailed using target notes.

The survey was carried out on 7th July 2009 by John Polley (Senior Ecological Consultant). Table 4.1 details the weather conditions at the time of the survey.

Parameter	Condition
Temperature (°C)	16
Cloud (%)	100
Wind	3
Precipitation	Heavy Rain

Table 4.1: Weather Conditions During Survey Period

4.2 SURVEY CONSTRAINTS

No constraints were experienced during the survey. Heavy rain may have resulted in no fauna being recorded.

4.3 HABITATS

The following habitat types were recorded on site during the field survey:

- Fence
- Hardstanding
- Other Habitat
- Scattered trees.
- Scrub
- Wall

These habitats are described below. They are ordered alphabetically, not in order of ecological importance.

Fence

Wooden panel fencing formed sections of the eastern and western boundaries. A low metal wire fence with concrete posts was located along the northern boundary. Generally the fences supported limited vegetation.

Hardstanding

Along the southern section of the site hardstanding was present in the form of asphalt, gravel and small sections of brick paving. This habitat supported limited vegetation.

Other Habitat

The survey area predominantly comprised plant species typical of derelict land which was dominated by broad-leaved dock *Rumex obtusifolius*, nettle *Urtica dioica* and buddleia *Buddleia davidii.* Additional species included Yorkshire fog *Holcus lanatus*, perennial rye grass *Lolium perenne*, creeping buttercup *Ranunculus repens*, purple toadflax *Linaria purpurea*, white clover *Trifolium repens*, spear thistle *Cirsium vulgare,* dandelion *Taraxacum officinale agg.* and red dead nettle *Lamium purpureum.*

Scattered trees

Scattered trees were present within the survey area including field maple *Acer campestre,* hawthorn *Crataegus monogyna* and hazel *Corylus avellana.* The trees were young and in good condition generally being of around 4 m in height.

Scrub

Bramble *Rubus fruticosus agg.* dominated scrub was located along the northern and eastern boundaries of the site. Additional species present included elder *Sambucus nigra*, mallow *Malva sylvestris*, hedge bindweed *Calystegia sepium* and ivy *Hedera helix.*

Wall

Along the eastern boundary of the site a section of wall from number Number 31 Moore Road was present. This supported limited vegetation.

4.4 FAUNA

No evidence of fauna was recorded during the field visit.

5. DISCUSSIONS AND CONCLUSIONS

5.1 NATURE CONSERVATION SITES

Non-Statutory Sites

A total of 10 nature conservation sites with non-statutory protection occur within a 1 km radius of the survey area. The closest of these are located 520 m from the proposed works area. As such the distance of this along with the lack of connecting habitats between the two sites would result in there being no risk of these or any of the conservation areas being disturbed or adversely affected by development works.

5.2 HABITATS

It is understood from the client that a single building containing a number of residential units is to be constructed within the survey area. As such the habitats on site are to be affected by the proposed works.

The ecological importance of the habitats present on site is assessed against their presence on the UK and Local BAPs and on Section 41 of the NERC Act and their ability to support protected or notable species. Those habitats which meet any of these criteria and are considered likely to be impacted by the proposals are highlighted as notable considerations. This is summarised in Table 5.1 and further discussed in the text below.

Habitat Type	UK BAP?	Local BAP?	NERC Act?	Is Habitat a Notable Consideration?
Fence	No	No	No	No
Hardstanding	No	No	No	No
Other Habitat	No	No	No	No
Scattered trees	No	No	No	Yes
Scrub	No	No	No	Yes
Wall	No	No	No	No

Table 5.1: Summary of Ecological Importance of Habitats on Site

Areas of other habitat, fencing, wall and hard standing are not notable considerations with respect to the proposed re-development of the site as they do not support populations of protected/notable species and/or can be easily recreated.

Areas of scrub are a notable consideration for the proposed re-development, due to the habitats capability to support a variety of protected/notable species (i.e. nesting birds, slow worms). The proposed site plan (Khoury Architects Drawing 085.E.01.G01) indicates that this habitat will be potentially removed to facilitate the re-development of the site. Therefore these works have the potential to impact protected/notable species and this habitat is thus a notable consideration with respect to the proposed development of the site.

Scattered broadleaved trees on site have the potential to be utilised by a variety of bird species noted within the desk study. These habitats are therefore a notable consideration with respect to the proposed development of the site.

5.3 PROTECTED/NOTABLE SPECIES

Table 5.2 summarises which species are notable considerations for any development of the survey area. It also states whether these species are targeted by national or local Biodiversity Action Plans (BAPs) or afforded some protection under the NERC Act 2006.

Species	UK BAP?	Local BAP?	NERC Act?	Is Species a Notable Consideration?
Common pipistrelle	No	Yes	No	Yes – suitable foraging and commuting habitat present on site
Badger	No	No	No	No
Bats	Species dependant	Yes	Species depentdant	Yes – suitable foraging habitat present on site
Buzzard	No	No	No	No
Brown long-eared	Yes	Yes	Yes	Yes – suitable foraging habitat present on site
Grass snake	No	No	No	No

Table 5.2: Summary of Ecological Importance of Species on Site

Birds

The desk study contained records of common buzzard within 1 km of the survey area. The site contains unsuitable habitat for this species, providing very limited foraging or nesting habitat for the species. Therefore common buzzard is not a notable consideration with respect to the proposed re-development of the site.

The scrub and trees on site do however provide suitable breeding habitat for a variety of common species. Although no birds were recorded foraging or singing during the field survey it was heavily raining which would limit bird activity. The proposed re-development will have a direct and/or indirect impact on these habitats and therefore nesting birds are a notable consideration for the re-development.

Mammals

Records of badger occurring within 1 km of the site were detailed within the desk study data. The site offers potential foraging habitat for badgers but it is limited in size. No mammal tracks or badger setts were recorded on site. It is considered unlikely that this species will be affected by the proposed development scheme.

The desk study contained records of protected bat species (common pipistrelle, pipistrelle species and brown long-eared) approximately 750 m from the site. No structures on site could support a roosting bat however the perimeter vegetation along the northern and southern boundaries could provide foraging and commuting habitat for bats. Due to the limited sections of vegetation on site it is unlikely that these species will be affected by the proposed development scheme.

Reptiles

Records of grass snake occurring 770 m from the site were detailed within the desk study data. The site offers limited foraging habitat for this species as they prefer wetland areas. Additionally no compost heaps or piles of rubble were recorded which could provide potential hibernacula.

The scrub and adjacent habitats within the residential garden which abuts the eastern boundary could provide habitat for slow worm *Anguis fragilis*. The proposed re-development will have a direct and/or indirect impact on these habitats and therefore slow worms are a notable consideration for the re-development.

6. RECOMMENDATIONS

6.1 Nature Conservation Sites

It is unlikely that the works will affect the wildlife sites within 1 km m of the site. However, if the nature of the works alters Leicestershire and Rutland Wildlife Trust must be consulted.

6.2 Habitats

The following recommendations are made regarding the habitats present on site:

- **Habitat Loss:** In accordance with the provision of Planning Policy Statement 9 (Biodiversity & Geological Conservation) and Local Planning Policy, a habitat/species enhancement scheme should be incorporated into the landscaping scheme of any proposed works to maximise the ecological value of the site.
- **Trees:** Any trees on site, or overhanging the site, which are not to be removed as a part of any proposed works should be protected in accordance with British Standard "Trees in relation to construction - Recommendations" BS5837:2005. Protection should be installed on site prior to the commencement of any works on site.

6.3 Protected / Notable Species

The following recommendations are made regarding protected species that are potentially present on site:

- A reptile survey should be undertaken prior to works commencing. This will determine if any slow worms are utilising the areas of scrub prior to its removal.
- All vegetation clearance works should be undertaken outside of the bird nesting season which runs from March to September inclusively. Any vegetation clearance works undertaken within this period should be checked prior to removal by a suitably qualified ecologist.
- Any excavation left overnight should be covered or fitted with wooden planks to provide trapped mammals a means of escape.

REFERENCES AND BIBLIOGRAPHY

IEA (1995) Guidelines for Baseline Ecological Assessment, Institute of Environmental Assessment. E&FN Spon, An Imprint of Chapman and Hall. London.

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

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UK Biodiversity Partnership. (no date). *'UK Biodiversity Action Plan'*. Available: http://www.ukbap.org.uk

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APPENDICES

APPENDIX 1: Desk Study Data

APPENDIX 2: Overview of Relevant Legislation

APPENDIX 3: Extended Phase I Habitat Survey Drawing C105404-01

APPENDIX 1

Desk Study Data

Leicestershire Environmental Resources Centre

Leicestershire County Council





Biodiversity Information Services

Report: Data search - Moore Road, Barwell, Leics **Job:** 09-068

1km radius around SP449974

Statutory & non-statutory sites. Protected species. Notable species

Client: Damon Hall

Operations Assistant

Middlemarch Environmental Ltd

"A Local Records Centre is a not-for-profit service run in partnership for the public benefit, which collects, collates, manages and disseminates information of known quality relating to the wildlife, wildlife sites and habitats of a defined geographical area"

Date: 09/07/09

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Making Biodiversity Information Work Harder

Biodiversity Information Report

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Coverage.spatial	1km radius around SP449974
Coverage.services	Statutory & non-statutory sites. Protected species. Notable species
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Date.issued	09/07/09
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Identifier.invoice	C105404
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 - Moore Road, Barwell, Leics
Type	Standard

Confidentiality

Environmental Information Regulations guidance has been taken into account by Leicestershire Environmental Resources Centre, acting on behalf of the suppliers of information on sensitive information contained within this document, between whom Data Exchange Agreements are in force.
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.

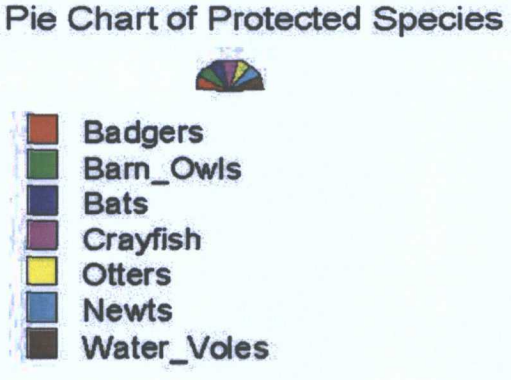
4 Biodiversity Action Plan habitats (on request)

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:

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 is January 2009.

The map shows the presence of the protected species listed below and was created using a GIS layer. Take care to examine the species lists as species records on these lists after the map's date will not appear on the map.



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)

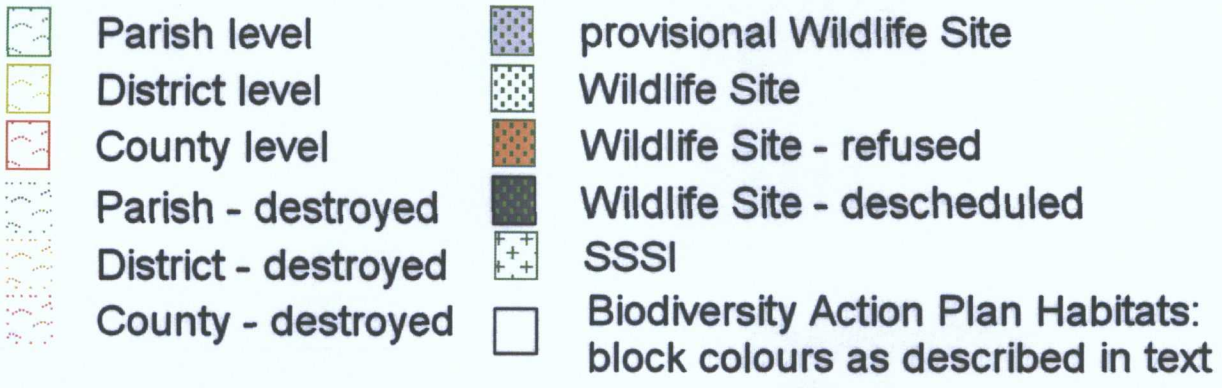
Map locations

1Km	Location name	Object	Grid ref	Status	Reference	Area (ha)
SK5016	Buck Hill, Wood Brook north	00001330	SK506169	Wildlife Site	W5016/2 [25392]	0.02
SK5018	Holywell Wood	00013806	SK506182	Wildlife Site	W5018/2/6 (13811)	6.73
SK5117	Woodland & Wetland (Wood Brook)	00016292	SK519177	Parish level	1212.70.36.029	0.08
SK5017	Burleigh Wood	00017330	SK508176	Wildlife Site	W5018/2/7 (25394)	8.48
SK5017	Charnwood Canal	00017335	SK501175	Parish level	1217.70.36.028	0.93
SK5017	Nanpanton Resevoir	00017340	SK507170	Parish level	1212.70.36.034	3.25
SK4918	Dismantled railway line.	00017345	SK498185	Parish level	1212.70.36.025	1.94
SK5016	Nanpanton Hill	00017350	SK500169	Parish level	1212.70.36.033	3.91
SK5116	Out Woods SSSI	00017355	SK514164	SSSI	1233.20.28.22	63.71
SK4918	Woodland	00017366	SK494182	Parish level	1212.70.36.026	0.35
SK5018	Woodland	00017371	SK500180	Parish level	1212.70.36.027	0.87
SK4818	Home Covert West.	00017376	SK489186	District level	1222.10.52.058	4.16
SK4917	Longcliff Plantation	00017381	SK492170	Parish level	1222.10.82.071	22.17
SK5016	Buck Hill, three outcrops	00023366	SK509168	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.

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Data search - Moore Rd, Barwell

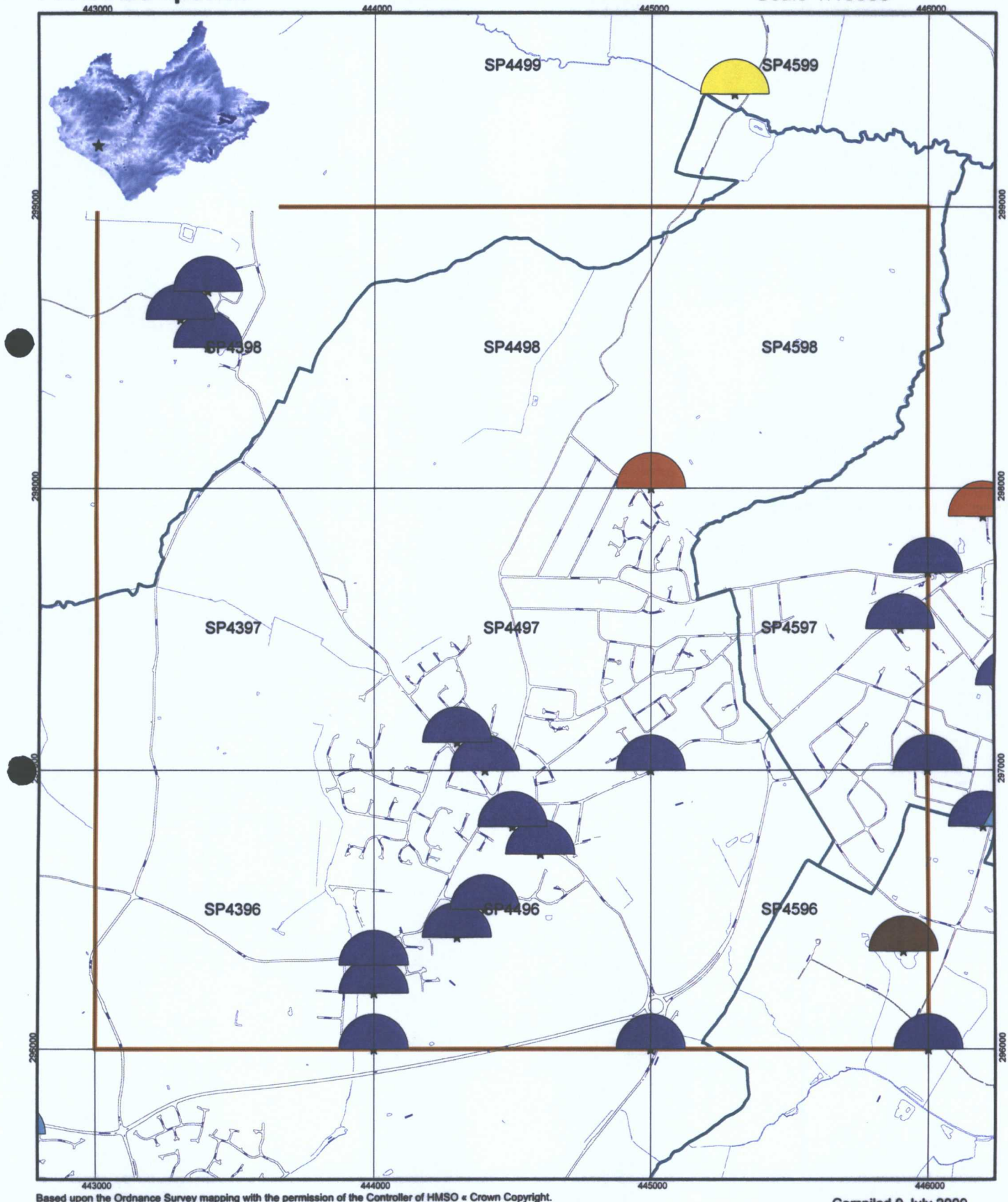
This map displays the distribution of Protected species. Last updated 07/Feb/2009. Please check the current lists in this report for more recent data.

Job: 09-068

Protected species

Leicestershire County Council. Licence number LA 076724

Scale 1:18000



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Protected species

Selected Designated Species

Date	Location	Grid reference	Species		Recorder
1959	St.Mary's Church (Bat roost)	SP444965	Vespertilionidae	Vespertilionidae	Unknown
02/06/1978		SP445969	Natrix natrix	Grass Snake	Unknown
01/01/1980 - 31/12/1980		SP4396	Pipistrellus	Common Pipistrelle	Unknown
01/01/1980 - 31/12/1980		SP4597	Pipistrellus	Common Pipistrelle	Unknown
01/01/1983 - 31/12/1983		SP4596	Vespertilionidae	Vespertilionidae	English Nature
01/01/1983 - 31/12/1983	Lovelace Crescent (Bat roost)	SP4596	Chiroptera	Bats	Nature Conservancy Council
02/06/1983	Lovelace Crescent (Bat roost)	SP4596	Pipistrellus	Common Pipistrelle	Nature Conservancy Council
02/06/1983	Lovelace Crescent (Bat roost)	SP4596	Pipistrellus	Common Pipistrelle	Nature Conservancy Council
02/06/1983		SP4596	Pipistrellus	Common Pipistrelle	English Nature
02/06/1983		SP4596	Pipistrellus	Common Pipistrelle	English Nature
01/01/1985 - 31/12/1985	The Brockey Sett	SP4598	Meles meles	Badger	Ray Morris
22/07/1985		SP440962	Vespertilionidae	Vespertilionidae	English Nature
22/07/1985	Waterfall Way (Bat roost)	SP440962	Chiroptera	Bats	Nature Conservancy Council
18/08/1986	School Lane, Stapleton (Bat roost)	SP434987	Chiroptera	Bats	Jan Dawson
18/08/1986	School Lane, Stapleton (Bat roost)	SP434987	Vespertilionidae	Vespertilionidae	Jan Dawson
27/01/1987		SP443971	Pipistrellus	Common Pipistrelle	English Nature
13/07/1988	High Street (Bat roost)	SP446967	Pipistrellus	Common Pipistrelle	Nigel Bailey
13/07/1988	High Street (Bat roost)	SP446967	Pipistrellus	Common Pipistrelle	Nigel Bailey
13/07/1988		SP446967	Pipistrellus	Common Pipistrelle	Nigel Bailey
08/08/1988		SP4496	Vespertilionidae	Vespertilionidae	Val Hennessy
24/08/1988		SP459975	Pipistrellus	Common Pipistrelle	Jan Dawson
15/07/1990		SP4596	Vespertilionidae	Vespertilionidae	Val Hennessy
15/07/1990	Lovelace Crescent b (Bat roost)	SP4596	Chiroptera	Bats	Val Hennessy
26/07/1990	Green La, Stplton (Bat roost)	SP433986	Chiroptera	Bats	Val Hennessy
26/07/1990	Green La, Stplton (Bat roost)	SP433986	Vespertilionidae	Vespertilionidae	Val Hennessy
29/08/1990	St.Mary's Church (Bat roost)	SP444965	Plecotus auritus	Brown Long-eared Bat	Mary Fullylove

Confidential: 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. Environmental Information Regulations Exception (12)(g).



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Date	Location	Grid reference	Species		Recorder
29/08/1990	St.Mary's Church (Bat roost)	SP444965	Pipistrellus	Common Pipistrelle	Mary Fullylove
29/05/1992		SP4497	Vespertilionidae	Vespertilionidae	Val Hennessy
24/09/1992		SP445968	Pipistrellus	Common Pipistrelle	Nigel Bailey
05/03/1993	Elmesthorpe Lane Oak Tree (Bat roost)	SP4584096570	Vespertilionidae	Vespertilionidae	Peter Gilbertson
09/06/1993		SP4496	Pipistrellus	Common Pipistrelle	Jan Dawson
29/06/1993	Waterfall Way (Bat roost)	SP440962	Chiroptera	Bats	Occupier/owner
29/06/1993		SP440962	Vespertilionidae	Vespertilionidae	Unknown
05/07/1993	The Leecrofts (Bat roost)	SP4596	Pipistrellus	Common Pipistrelle	Jan Dawson
05/07/1993	The Leecrofts (Bat roost)	SP4596	Pipistrellus	Common Pipistrelle	Jan Dawson
05/07/1993		SP4596	Pipistrellus	Common Pipistrelle	Jan Dawson
26/07/1993		SP4597	Pipistrellus	Common Pipistrelle	Jan Dawson
05/06/1997	Church Lane, Stapleton, nr Market Harborough	SP434985	Chiroptera	Bats	Unknown
03/12/2001	Elmesthorpe, Bridle Path Road	SP45919635	Arvicola terrestris	European Water Vole	Unknown
05/06/2002	Waterfall Way, Barwell (Bat roost)	SP443964	Pipistrellus	Pipistrelle	Jenny Harris
21/06/2002	Waterfall Way, Barwell (Bat roost)	SP443964	Pipistrellus	Pipistrelle	Jenny Harris
16/06/2004	Waterfall Way, Barwell (Bat roost)	SP440963	Pipistrellus sp.	Pipistrelle Bat species	Jenny Harris
21/09/2005	Stapleton Lane, Barwell	SP444970	Pipistrellus	Common Pipistrelle	Nathalie Cossa;Mrs Malpas
03/08/2007	Barwell - Hkly & Bos	SP445969	Buteo buteo	Common Buzzard	Hayes IH
14/01/2009	Duncan Avenue (Bat Roost)	SP451976	Chiroptera	Chiroptera	Kathrin Kraft;Middlemarch

Total number of observations =45

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Key Species

Key species inventory: Leicestershire & Rutland (Leicestershire Biodiversity Action

Date	Location	Grid reference	Species		Recorder
01/01/1941	Burbage Site	SP450964	Acaulon muticum	Rounded Pygmy-moss	A.R. Horwood
27/01/2007	Stapleton - Hkly & Bos	SP435986	Falco tinnunculus	Common Kestrel	Gamble DJS
02/04/2007	Stapleton - Hkly & Bos	SP435986	Falco tinnunculus	Common Kestrel	Gamble DJS
03/08/2007	Barwell - Hkly & Bos	SP445969	Buteo buteo	Common Buzzard	Hayes IH

Total number of observations =4

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Map locations - Parish, District, County sites

1Km	Location name	Object	Grid ref	Status	Reference	Area (ha)
SP4395	Hedgerow	00014324	SP432959	Parish level	1408.10.95.010	0.13
SP4596	Grassland	00021449	SP452962	Parish level	1408.12.81.034/240	1.12
SP4596	Semi-improved grassland	00021454	SP452963	Parish level	1408.12.81.032	1.59
SP4596	Semi-improved grassland	00021459	SP452966	Parish level	1408.12.81.030	0.78
SP4596	Marsh	00021464	SP452968	Parish level	1408.12.81.021	1.30
SP4596	Pond	00021469	SP452967	Parish level	1408.12.81.026	0.06
SP4596	Pond, in grassland	00021474	SP453967	Parish level	1408.12.81.027	0.09
SP4596	Semi-improved grassland	00021479	SP453969	Parish level	1408.12.81.023/239	0.51
SP4597	Hedgerow	00021484	SP453979	Parish level	1408.12.81.007	0.15
SP4597	Grassland.	00021489	SP450979	Parish level	1408.12.81.008	0.81
SP4596	Grassland	00021509	SP450969	Parish level	1408.000.000	0.88
SP4598	Two Grasslands	00028153	SP451984	Parish level	1408.12.81.004	2.17
SP4598	Small spinney	00028158	SP451989	Parish level	1408.10.93.006	0.15
SP4297	Pond	00057408	SP429979	Parish level	1414.11.52.190	0.01

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Data search - Moore Rd, Barwell

Ref.: Job no. 09-068

Section: Hinckley

Leicestershire County Council. Licence number LA 100019271

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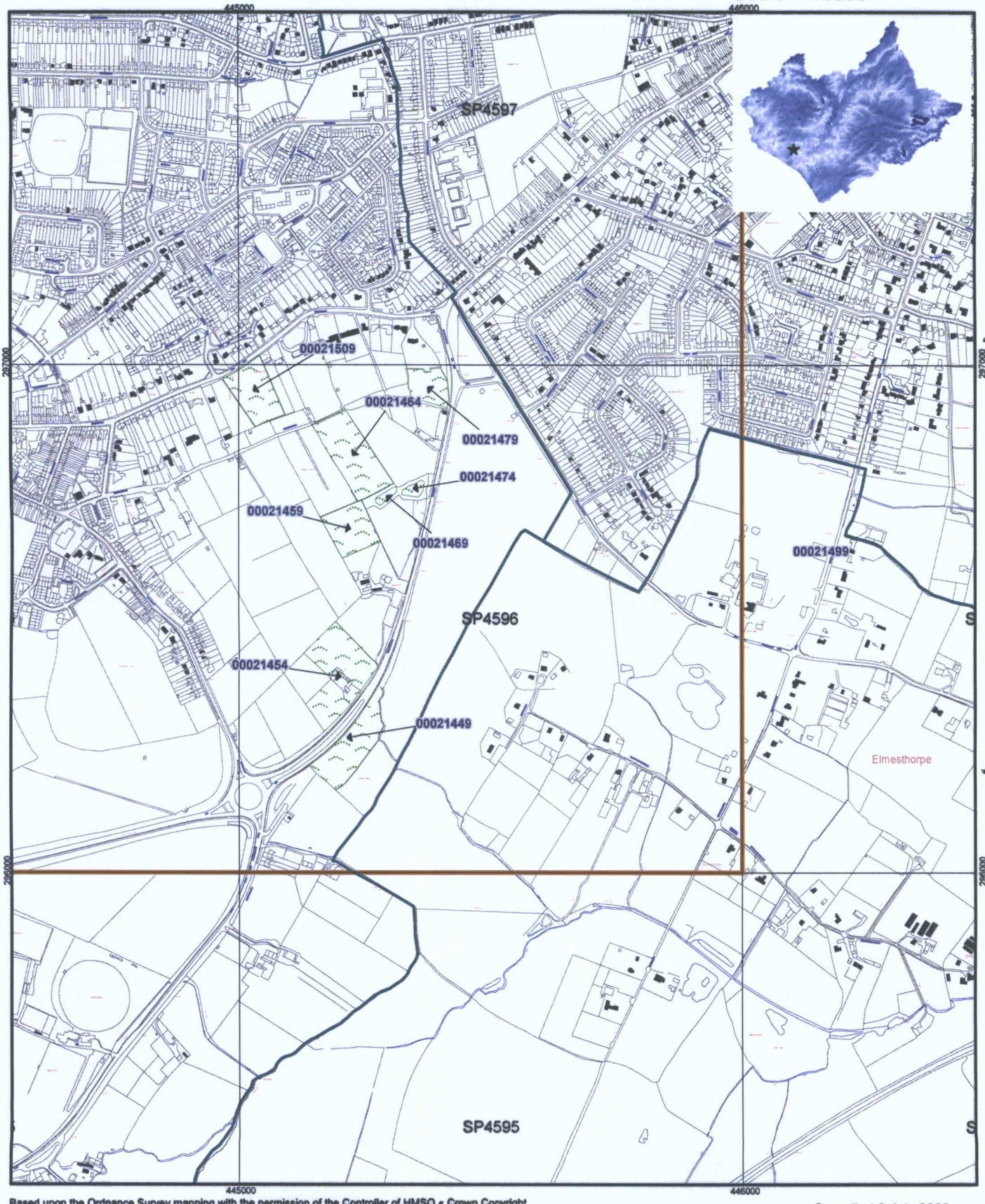

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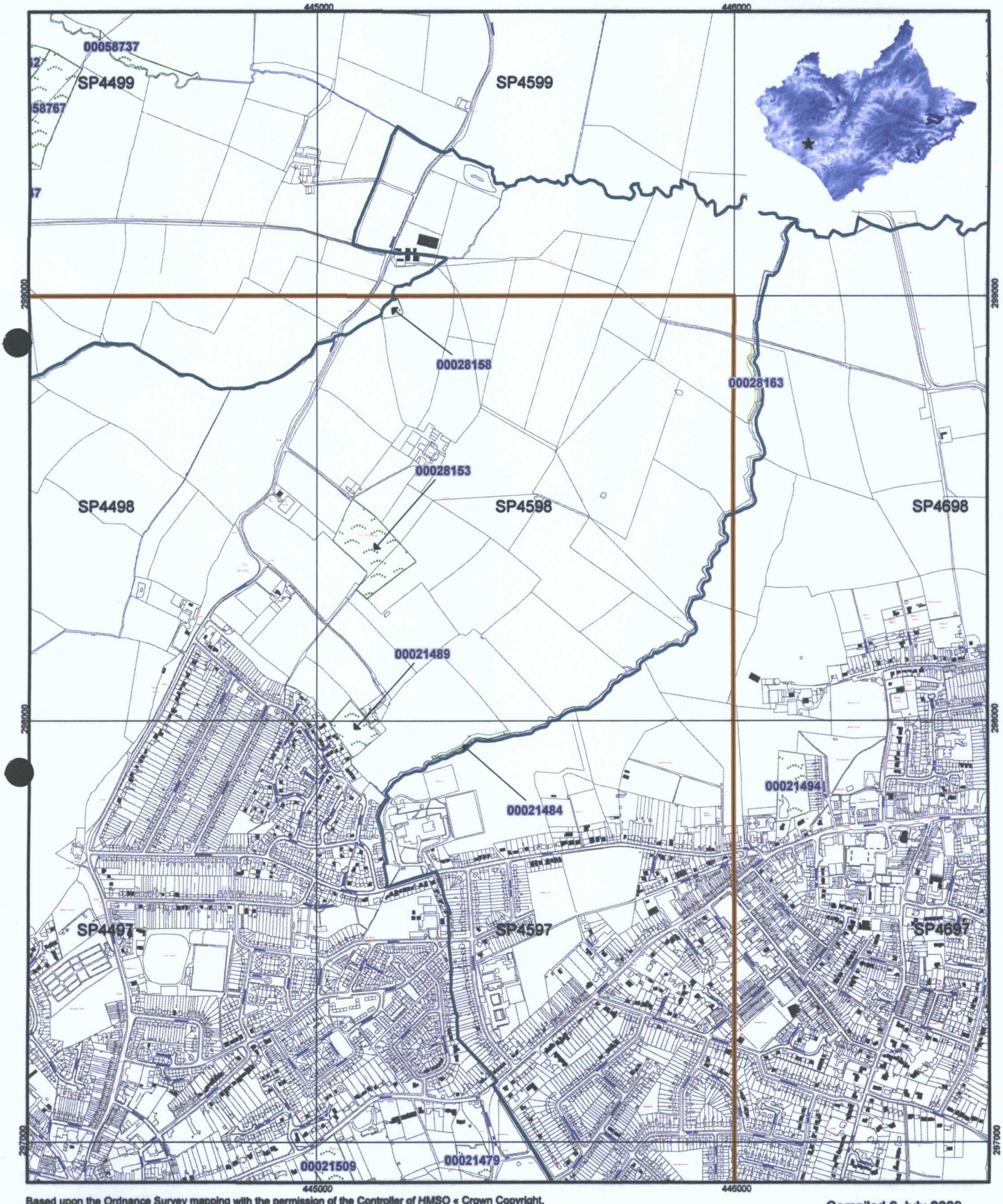

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Ref.: Job no. 09-068

Section: Hinckley & Bosworth

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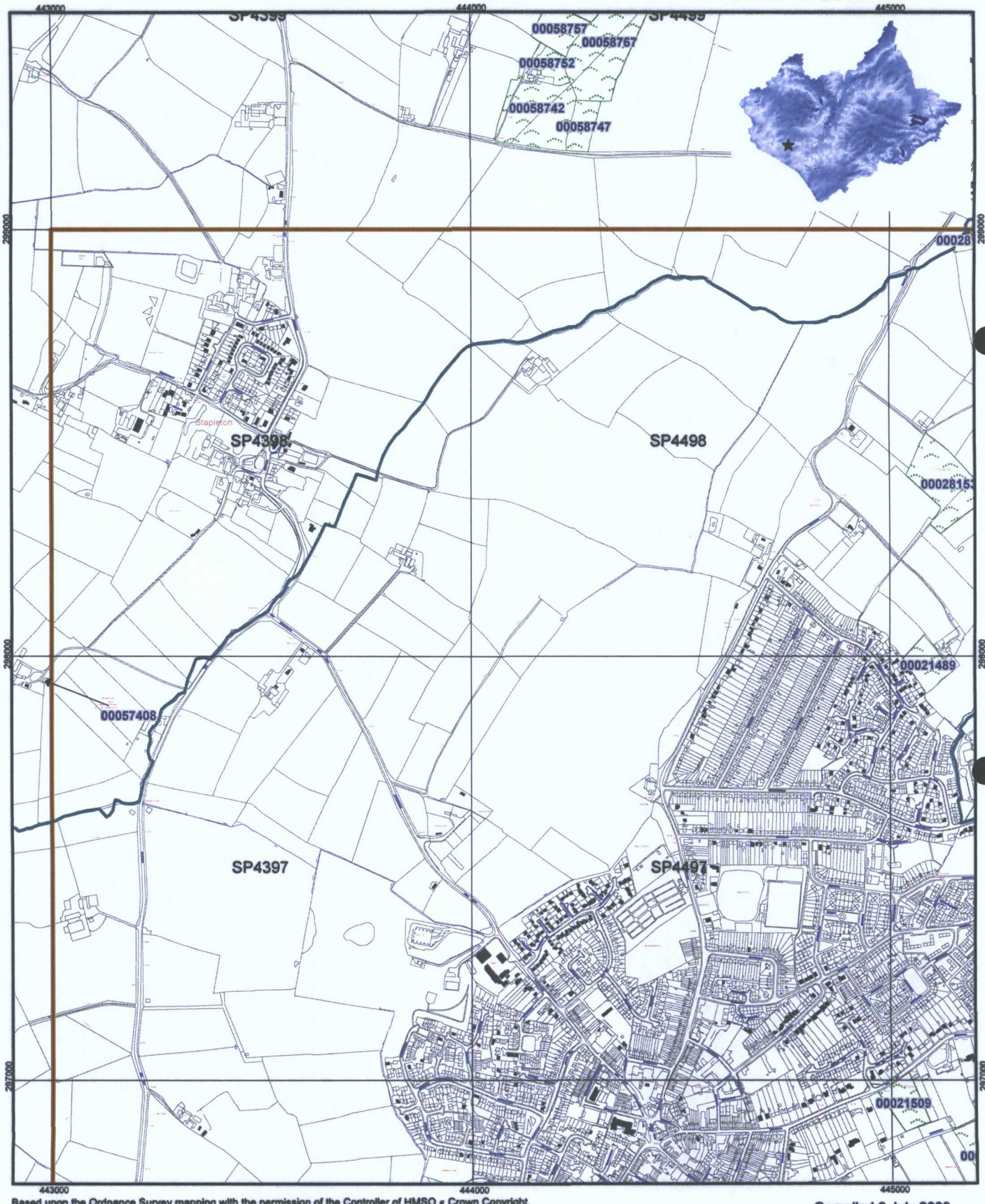

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Data search - Moore Rd, Barwell

Ref.: Job no. 09-068

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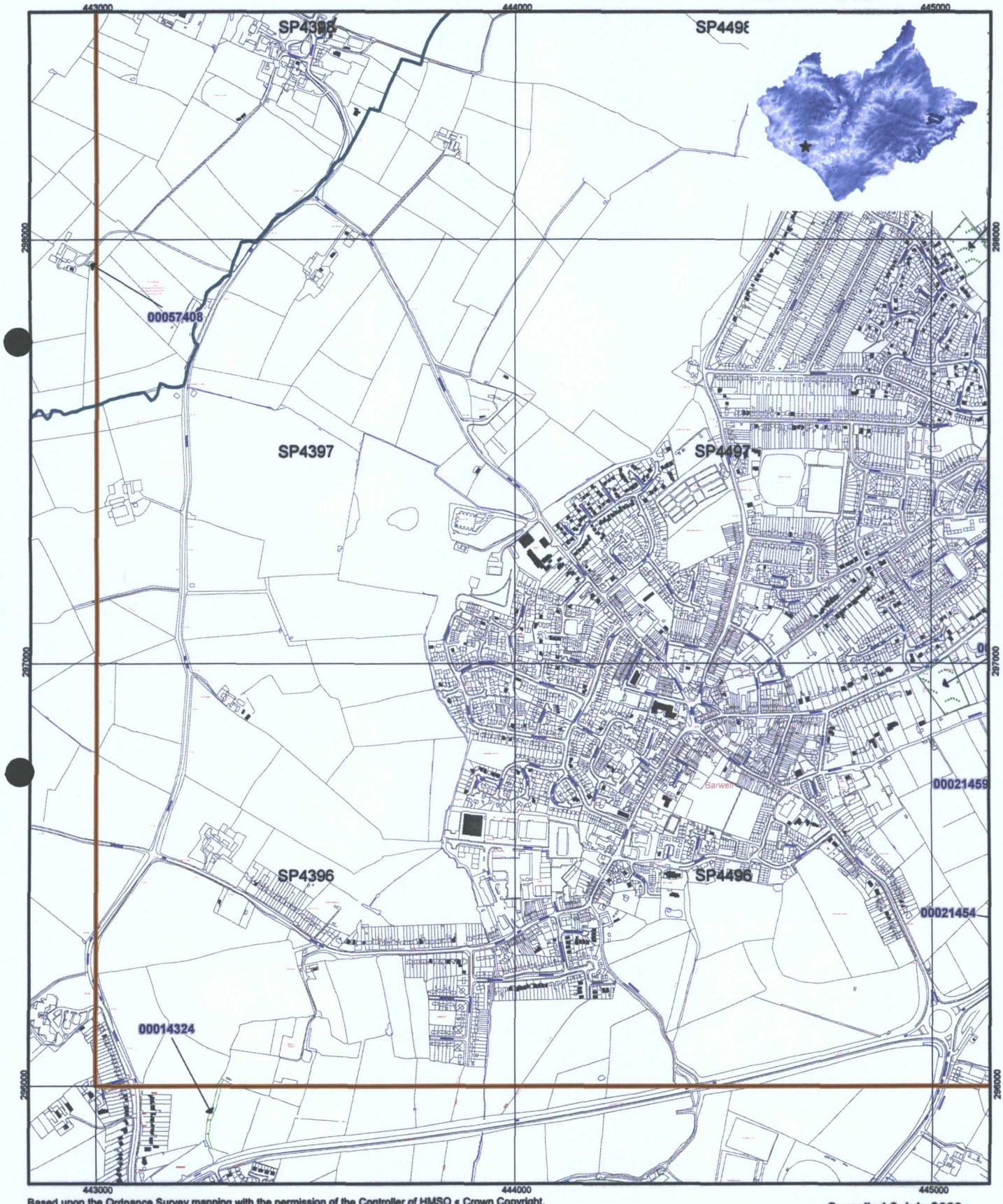

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Map locations - Local Wildlife sites

1Km	Location name	Object	Grid ref	Status	Reference	Area (ha)
SP4397	Little Fields Farm Meadow	00028229	SP435975	Wildlife Site	LRWT39755	0.97

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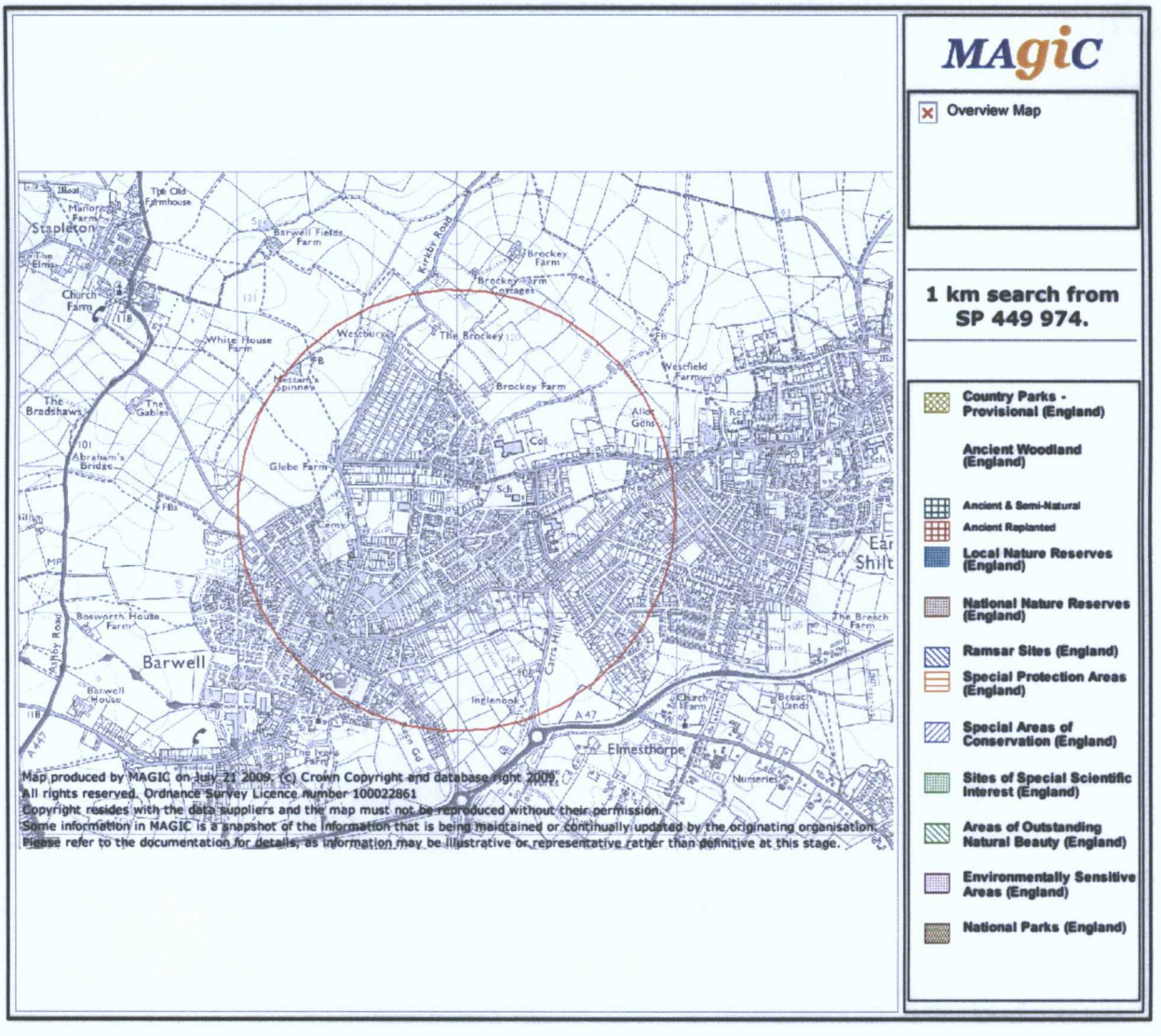
MAGIC
Overview Map
1 km search from SP 449 974.
Country Parks - Provisional (England)
Ancient Woodland (England)
Ancient & Semi-Natural
Ancient Replanted
Local Nature Reserves (England)
National Nature Reserves (England)
Ramsar Sites (England)
Special Protection Areas (England)
Special Areas of Conservation (England)
Sites of Special Scientific Interest (England)
Areas of Outstanding Natural Beauty (England)
Environmentally Sensitive Areas (England)
National Parks (England)
Stapleton
Barwell
Elmesthorpe
Earl Shilton
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Please refer to the documentation for details, as information may be illustrative or representative rather than definitive at this stage.

Site Check Report

Report generated on July 21 2009.

You clicked on the point:
Grid Ref: SP 449 974
Full Grid Ref: 444997 , 297464

The following features have been found within 1,000 metres of your search point:

Counties, Metropolitan Districts and Unitary Authorities (GB)

Geographic Level	Name
COUNTY	LEICESTERSHIRE

NUTS1 - Government Office Regions (GB)

Hotlink	Name	Reference
http://www.statistics.gov.uk/geography/nuts_em.asp	EAST MIDLANDS	UKF

Country Parks - Provisional (England)
There are no features within your search area.

Ancient Woodland (England)
There are no features within your search area.

Local Nature Reserves (England)
There are no features within your search area.

National Nature Reserves (England)
There are no features within your search area.

Ramsar Sites (England)
There are no features within your search area.

Special Protection Areas (England)
There are no features within your search area.

Special Areas of Conservation (England)
There are no features within your search area.

Sites of Special Scientific Interest (England)
There are no features within your search area.

Areas of Outstanding Natural Beauty (England)
There are no features within your search area.

Environmentally Sensitive Areas (England)
There are no features within your search area.

National Parks (England)
There are no features within your search area.

To save the report, select "Save" or "Save As" from the File menu. You should save the file with a **.html** extension and give it a name of your choice.
You can then open your report using your web browser software.

Print Report | Close Window

APPENDIX 2

Overview of Relevant Legislation

General Legislation and Policy Overview

This section provides an overview of the framework of legislation and policy which underpins nature conservation and is a material consideration in the planning process in England.

The Conservation (Natural Habitats. &c.) Regulations 1994 (as amended)

The Habitat Regulations 1994 (as amended 2009) transpose EEC Council Directive 92/43 (The Habitats Directive) into UK law. The regulations place duty upon the relevant authority of the UK government to identify sites which are of importance to the habitats and species listed in Annexes I and II of the Habitats Directive. Those sites which meet the criteria are, in conjunction with the European Commission, designated as Sites of Community Importance, which are subsequently identified as Special Areas of Conservation (SAC) by the European Union member states. The regulations also place a duty upon the UK government to maintain a register of European protected sites designated as a result of EC Directive 79/409/EEC on the Conservation of Wild Birds (The Birds Directive). These sites are termed Special Protection Areas (SPA) and, in conjunction with SACs, form a network of sites known as Natura 2000.

The regulations also provide for the protection of individual species of fauna and flora of European conservation concern listed in Schedules 2 and 4 respectively. Schedule 2 includes species such as otter and great crested newt for which the UK population represents a significant proportion of the total European population. It is an offence to deliberately kill, injure, disturb or trade these species in the UK. Schedule 4 plant species are protected from unlawful destruction, uprooting or trade under the regulations.

The Wildlife and Countryside Act (WCA)1981

The WCA, as amended, consolidates and amends pre-existing national wildlife legislation in order to implement the Bern Convention and the Birds Directive. It compliments the Conservation (Natural Habitats. &c.) Regulations 1994 (as amended), offering protection to a wider range of species. The Act also provides for the designation and protection of national conservation sites of value for their floral, faunal or geological features, termed Sites of Special Scientific Interest (SSSIs).

Schedules of the act provide lists of protected species, both flora and fauna, and detail the possible offences that apply to these species. All relevant species specific legislation is detailed later in this Appendix.

The Countryside and Rights of Way (CRoW) Act 2000

The CROW Act, introduced in England and Wales in 2000, amends and strengthens existing wildlife legislation detailed in the WCA. It places a duty on government departments and the National Assembly for Wales to have regard for biodiversity, and provides increased powers for the protection and maintenance of SSSIs.

The Act also contains lists of habitats and species (Section 74) for which conservation measures should be promoted, in accordance with the recommendations of the Convention on Biological Diversity (Rio Earth Summit) 1992.

The Natural Environment and Rural Communities (NERC) Act 2006

Section 40 of the NERC Act places a duty upon all local authorities and public bodies in England and Wales to promote and enhance biodiversity in all of their functions. Sections 41 (England) and 42 (Wales) list habitats and species of principal importance to the conservation of biodiversity. These species and habitats are a material consideration in the planning process.

The Hedgerow Regulations 1997

The Hedgerow Regulations make provision for the identification of important hedgerows which may not be removed without permission from the Local Planning Authority.

UK BIODIVERSITY ACTION PLAN

The United Kingdom Biodiversity Action Plan (UKBAP), first published in 1994 and updated in 2007, is a government initiative designed to implement the requirements of the Convention of Biological Diversity to conserve and enhance species and habitats. The UKBAP contains a list of priority habitats and species of conservation concern in the UK, and outlines biodiversity initiatives designed to enhance their conservation status. Lists and Broad and Local habitats are also included. The priority habitats and species correlate with those listed on Section 74 of the CRoW Act and Section 41/42 of the NERC Act.

The UKBAP requires that conservation of biodiversity is addressed at a County level through the production of Local BAPs. These are complimentary to the UKBAP, however are targeted towards species of conservation concern characteristic of each area. In addition, a number of local authorities and large organisations have produced their own BAPs.

UKBAP and Local BAP targets with regard to species and habitats are a material consideration in the planning process.

PLANNING POLICY

Planning Policy Statement 9

Planning Policy Statement 9 provides guidance to local authorities regarding the protection of biodiversity and geology through the planning system in England. Key principles relating to biodiversity include:

- Development plan policies and planning decisions should be based upon up-to-date information about the environmental characteristics 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.

- Plan policies and planning decisions should aim to maintain, and enhance, restore or add to 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.

- Plan policies should promote opportunities for the incorporation of beneficial biodiversity and geological features within the design of development.

National planning policy is implemented through local and regional planning policies.

Species Specific Legislation

Nesting and Nest Building Birds

Nesting and nest building birds are protected under the Wildlife and Countryside Act WCA 1981 (as amended). Some species (listed in Schedule 1 of the WCA) are protected by special penalties.

Subject to the provisions of the act, if any person intentionally –

(a) kills, injures or takes any wild bird;
(b) takes, damages or destroys the nest of any wild bird while that nest is in use or being built; or
(c) takes or destroys an egg of any wild bird,

he shall be guilty of an offence.

'Reckless' offences with regard to the disturbance of nesting wild birds included in Schedule 1 of the Wildlife and Countryside Act were added by the Countryside and Rights of Way Act 2000.

Legislation Protecting UK Reptiles (2005)

All of the UK's native reptiles are protected by law. The two rarest species – sand lizard (*Lacerta agilis*) and smooth snake (*Coronella austriaca*) benefit from the greatest protection.

Common lizard (*Lacerta vivipara*), slow-worm (*Anguis fragilis*), adder (*Vipera berus*) and grass snake (*Natrix natrix*) are protected under the Wildlife and Countryside Act 1981 as amended from intentional killing or injuring.

Sand lizard and smooth snake are protected under the Wildlife and Countryside Act 1981 (as amended) and the Conservation (Natural Habitats, & c.) Regulations 1994 which together make it illegal to kill, injure, capture, handle or disturb these animals. Places they use for breeding, resting, shelter and protection are protected from being damaged or destroyed. It is also illegal to obstruct these animals from using such areas.

In England and Wales, this Act has been amended by the Countryside and Rights of Way Act 2000 (CroW), which adds an extra offence, makes species offences arrestable, increases the time limits for some prosecutions and increases penalties. The Natural Environment and Rural Communities

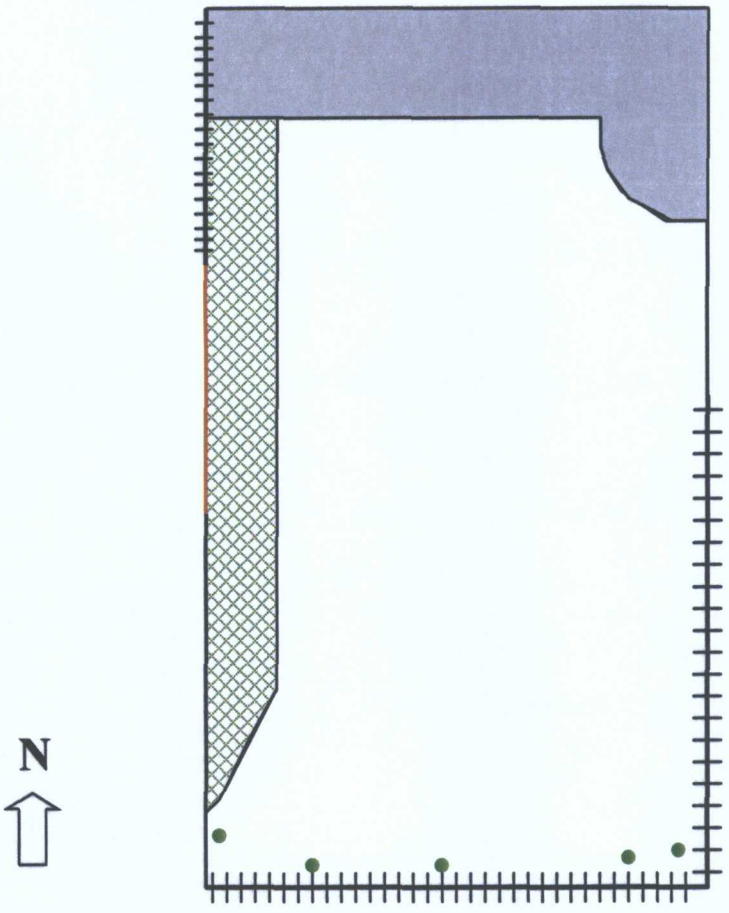
(NERC) Act 2006 places a duty on Government Departments to have regard for the conservation of biodiversity and maintains lists of species and habitats which are of principal importance for the purposes of conserving biodiversity in England and Wales. All native reptile species are included on these lists.

The reader is referred to the original legislation for the definitive interpretation.

This is a simplified description of the legislation. In particular, the offences mentioned here may be absolute, intentional, deliberate or reckless. Note that where it is predictable that reptiles are likely to be killed or injured by activities such as site clearance, this could legally constitute intentional killing or injuring.

APPENDIX 3

Middlemarch Environmental Ltd Drawing C105404-01
Extended Phase 1 Habitat Survey



Key	
	Fence
	Hard standing
	Other Habitat
	Scattered trees
	Scrub
	Wall

MIDDLEMARCH ENVIRONMENTAL

Extended Phase 1 Habitat Survey

Client:	Khoury Architects
Site:	29 Moore Road
Drawing N°:	C105404-01
Scale:	Do Not Scale
Date:	July 2009
Drawn by:	JP
Checked by:	AD

MIDDLEMARCH ENVIRONMENTAL LTD

QUALITY ASSURANCE

TITLE: 29 MOORE ROAD
BARWELL
LEICESTERSHIRE

EXTENDED PHASE 1 HABITAT SURVEY

A Report to Khoury Architects

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