

Castle Hill,
Huddersfield

Preliminary Ecological Appraisal

April 2017

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1 Introduction and Background

This report presents the results of a Preliminary Ecological Appraisal undertaken on land at Castle Hill Side, Huddersfield HD4 6TA in relation to a proposed new building on the existing car park. The study area (see Figures 1 and 2) extends to approximately 70 metres x 70 metres (max) and is located at approximate grid reference SE152140.

The aims of this assessment were to identify the broad habitat types present on the site, to search for evidence of protected species, to assess the potential for protected sites and protected / notable species to be affected by the development and to make any recommendations for further surveys or assessments which may be required to inform a subsequent planning application.

A preliminary ecological appraisal was conducted on 29th March 2017 by Toby Fisher MCIEEM CEnv. A desk-based study was also undertaken to obtain existing ecological records for the site and the surrounding area.

Figure 1. Study area outlined in red (aerial image dated 2016)



2 Survey Methodology

2.1 Desk Study

West Yorkshire Ecology Service (WYES) was contacted for searches of protected sites and records of protected species within a 2 km radius of the site centre.

In addition, the following data sources were searched for statutorily protected sites and additional ecological data of relevance to the assessment such as off-site waterbodies:

- Multi Agency Geographic Information for the Countryside (MAGIC).
- Ordnance Survey 1:10,000 mapping.
- Aerial imagery (dated 2016).

2.2 Personnel

The Preliminary Ecological Appraisal survey was undertaken by Toby Fisher CEnv MCIEEM^{1 2}.

2.3 Preliminary Ecological Field Survey

A Preliminary Ecological Field Survey was conducted on 29th March 2017 by Toby Fisher MCIEEM CEnv. In accordance with the standard survey methodology³, the habitats on the site were assessed and mapped. The habitats were categorised in order to provide baseline information and subsequent interpretation of the ecological value of the site. In addition, the site was searched for evidence of protected / notable species and assessed in terms of its potential to support protected / notable species such as badger and great crested newt.

The site was assessed in term of its potential value for bats in accordance with the approach and methods described in the current best practice guidelines for bat surveys^{4 5}.

2.4 Limitations

The survey was undertaken outside the main survey seasons for phase 1 habitat survey and bat survey (i.e. May to September). At this time of year, evidence of bats and certain plant species may be absent, although it was possible to identify broad habitat types and to assess the habitat quality for bats. The survey was undertaken during suitable weather conditions. All parts of the study area were fully accessed.

Overall, given the aims of the assessment, there were no significant limitations.

¹ Natural England Class Licence Registration No. 2015-10756-CLS-CLS - CL18 Level 2 (Bats).

² Natural England Class Licence Registration No. WML- CL08:2015-16681-CLS-CLS (Great Crested Newts).

³ JNCC, (2010), Handbook for Phase 1 habitat survey - a technique for environmental audit, ISBN 0 86139 636 7.³

⁴ West Yorkshire Ecology Service. Minimum Standards for Bat Surveys in West Yorkshire (Version 5). Revised 18 July 2012. West Yorkshire Ecology Advisory Group – 19/07/2012.

⁵ Collins, J. (ed.) (2016) Bat Surveys for Professional Ecologists: Good Practice Guidelines (3rd edn). The Bat Conservation Trust, London. ISBN-13 978-1-872745-96-1.

3 Survey Results

3.1 Desk Study

Information provided by WYES is reproduced at Appendix 2.

3.1.1 Species Records

WYES provided several records of protected and notable species within the search area. This information is reproduced in Appendix 2 and the key information of relevance to this assessment is summarised below.

Amphibians

Great crested newt: 3 records within 2 km dated 2005, 2008 and 2009. The nearest of these records is approximately 1.6 km west of the site.

Common toad, common frog, smooth newt and palmate newt records between 1 km and 2 km from the site.

Birds

Large number of bird records including several species listed on Section 41 of the Natural Environment and Rural Communities (NERC) Act 2006 as Species of Principal Importance for the conservation of biodiversity in England and on Schedule 1 of the Wildlife and Countryside Act 1981 (as amended). Several of the Section 41 or Schedule 1 species records relate directly to the site itself, i.e. Linnet, Yellowhammer, Bullfinch, Dunnock and Song Thrush.

Species recorded within 2 km of the site include: Skylark, Mallard, Meadow Pipit, Tree Pipit, Swift, Linnet, Goldfinch, Stock Dove, Cuckoo, House Martin, Lesser Spotted Woodpecker, Yellowhammer, Kestrel, Brambling, Swallow, Lesser Black-Backed Gull, Black-Headed Gull, Grey Wagtail, Spotted Flycatcher, Wheatear, Willow Tit, House Sparrow, Tree Sparrow, Grey Partridge, Redstart, Wood Warbler, Willow Warbler, Green Woodpecker, Dunnock, Bullfinch, Starling, Whitethroat, Redwing, Song Thrush, Fieldfare and Mistle Thrush.

Hedgehog

One record >1 km from the site.

Brown Hare

Six records, none within 500 m of the site

Bats

WYES provided 52 bat records within 2 km of the site. The species previously recorded in the area are: Daubenton's Bat, Noctule, Pipistrelle, Common Pipistrelle, Soprano Pipistrelle, Brown Long-Eared Bat, Bats and Vesper Bat species. None of the bat records are less than 700 m from the site.

Badger

Badger records are not reproduced in this report due to the threat of illegal persecution but will be made available to *bona fide* parties on request. WYES provided six badger records within a 2 km radius of the site. None of these records are from within 1 km of the site.

3.1.2 Nationally and Internationally Designated Sites

The following nationally / internationally designated sites have been identified within 2 km of the site:

- *Honley Station Cutting SSSI* (Site of Special Scientific Interest) is located ~1.53 km south-west of the site. This is a Geological SSSI.

3.1.3 *Locally Designated Sites*

Sites of Scientific Interest (SSI)

One SSI is present within 2 km of the site:

- *Hey Wood / West Wood* is located ~1.53 km south-west of the site.

Local Wildlife Sites (LWS)

Eight LWS are present within 2 km of the site:

- *Almondbury Common* >1 km from the site.
- *Arkenley Lane* >1 km from the site.
- *Arthur, Molly Carr & Roaf Woods* is located ~0.47 km south of the site.
- **Castle Hill includes the area of the site itself.**
- *Hey Wood / West Wood* >1 km from the site.
- *Long Hill Plantation* is located ~0.83 km north-east of the site.
- *Park Wood* >1 km from the site.
- *Upper Park Wood* >1 km from the site.

Kirklees – Sites of Wildlife Significance (SWS)

Two SWS are present within 2 km of the site:

- *Park Wood* 1 km from the site.
- *Upper Park Wood* 1 km from the site.

Local Nature Reserves (LNR)

Two LNR are present within 2 km of the site:

- **Castle Hill includes the area of the site itself.**
- *Upper Park Wood* 1 km from the site.

Kirklees Wildlife Habitat Network (KWHN)

The site lies within an area identified as part of KWHN.

3.1 *Field Survey*

Please also refer to Figure 2 and photos included in Appendix 1. The site extends to approximately 70 metres x 70 metres and is approximately 2.5 km south-south-east of Huddersfield town centre.

The site is located in a prominent position at approximately 260 metres above sea level. The site is bordered on all sides by grassland and scattered scrub.

3.1.1 *Habitats*

Hard Standing

The site is dominated by hard standing which is devoid of vegetation.

Grassland

Aside from hard standing, the only other habitat type present on the site is grassland. The grassland at the margins of the hard standing is dominated by species tolerant of trampling such as perennial rye-grass *Lolium perenne*, annual meadow-grass *Poa annua*, ribwort plantain *Plantago lanceolata*, creeping thistle *Cirsium arvense*, white clover *Trifolium repens*, daisy *Bellis perennis*, dandelion *Taraxacum officinale*, red dead-nettle *Lamium purpureum* and ragwort *Senecio jacobaea*.

Further from the margins of the car park, in areas less frequently trampled, additional species include Yorkshire fog *Holcus lanatus*, common bent *Agrostis capillaris*, red fescue *Festuca rubra*, creeping buttercup *Ranunculus repens* and self-heal *Prunella vulgaris*.

At the site's northern boundary, a ditch-and-bank supports semi-improved grassland typical of less-intense cutting and trampling such as cock's-foot *Dactylis glomerata*, false oat-grass *Arrhenatherum elatius*, meadow foxtail *Alopecurus pratensis*, hogweed *Heracleum sphondylium*, common nettle *Urtica dioica*, cleavers *Galium aparine* and white dead-nettle *Lamium album*.

Invasive Weeds

No evidence of invasive weeds such as Japanese knotweed was identified at the site.

Figure 2. Phase 1 Habitat Map (aerial image dated 2016)



3.1.2 Birds

A limited range of birds was observed during the survey. Species observed within and immediately adjacent the site included carrion crow, goldfinch, wren and magpie.

No suitable bird nesting habitat was noted within the site. Birds may nest immediately outside the site in scattered hawthorn *Crataegus monogyna* scrub adjacent to the site access road to the north-east of the site.

Given the habitats and human disturbance levels, the site itself is not likely to support notable assemblages of species listed on Section 41 of the Natural Environment and Rural Communities (NERC) Act 2006 during the breeding, wintering or passage periods.

3.1.3 *Bats*

Potential Roost Features

No features capable of supporting bat roosts are present within or immediately adjacent to the site.

Foraging / Commuting Habitats

Based on the nature of the habitats present and the site's geographic location at ~260m above sea level in a very exposed position, the site is considered likely to be negligible value for foraging / commuting bats.

3.1.4 *Great Crested Newt*

No waterbodies potentially suitable for breeding great crested newts have been identified within 500m of the site. This species is therefore very unlikely to occur at the site.

3.1.5 *Badger*

No evidence of badger was observed during the survey.

3.1.6 *Other Fauna*

Hedgehog and brown hare, both species of principal importance in England (NERC Act, 2006: S41), may occur within the site.

The habitats within the site are not considered likely to support reptiles due to site's geographic location, the nature of the habitats within the site, disturbance from people and vehicles and the limited availability of good quality habitat in the wider area.

No habitats suitable for resident populations of water vole, otter or white-clawed crayfish have been identified within or adjacent to the site.

4 Conclusions & Recommendations

4.1 *Protected Sites*

The site is located within Castle Hill LWS / LNR and also within an area identified as part of the Kirklees Wildlife Habitat Network (KWHN).

Recommendations:

Given the site's position within the above listed protected sites, it will be necessary to avoid the loss of semi-natural habitats within the site. The loss of hard standing would not be considered to adversely affect the protected sites. The site currently receives relatively high numbers of visitors and it is considered unlikely that the development would result in any significant adverse effects due to increased visitor pressure, although it may be necessary to put control measures in place such as encouraging visitors to keep to made-paths and providing wildlife information boards.

It is understood that the development would not result in the loss of any grassland. It is noted that the habitat survey was undertaken during a suboptimal time of year for vegetation surveys, i.e. March; therefore if any grassland is to be affected, it will be necessary to undertake a vegetation survey at the correct time of year, i.e. May to September, to ensure that no areas of species-rich or unimproved grassland is affected.

4.2 *Habitats*

None of the habitats within the site are assessed as being of value at greater than the site level. However, see the note in Section 4.1 regarding the seasonal timing of the grassland survey.

4.3 *Birds*

The site is not likely to be of value to birds and no suitable bird nesting habitat has been identified within the site. Therefore, no bird mitigation measures are considered necessary, although the provision of artificial nest boxes at the site could form an overall biodiversity enhancement.

4.4 *Bats*

The site is not likely to be of value to bats and no suitable bat roosting features have been identified within the site. Bats may forage in the wider area adjacent to the site.

Recommendations:

It is recommended that any artificial lighting at the site should be sensitively designed in order to minimise light spill in to adjacent areas of semi-natural vegetation such as scrub. No further bat mitigation measures are considered necessary.

4.5 *Other Fauna*

No mitigation or compensation measures are required for other species such as great crested newt, brown hare or hedgehog.

Appendix 1: Photos

Photo 1. Looking south-east across the site (proposed new building footprint is on the car park in foreground)



Photo 2. Looking north-east along site's north-western boundary



Photo 3. Looking north-east across the site towards the site access road



Photo 4. Looking east along site's northern boundary



Appendix 2: Information from WYES



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**Ecology
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ECOLOGICAL RECORDS SEARCH

FOR

**CASTLE HILL SIDE,
HUDDERSFIELD,
HD4 6TA**

Ref No:- 20170404 K1024 LP

Date: 18/04/2017

Prepared For Toby Fisher

Quants Environmental Ltd

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1 Introduction

This report provides a summary of the protected and notable species, habitats and designated sites information held by West Yorkshire Ecology Service (WYES) within 2km of grid reference SE 152 140.

The information within this report is supplied subject to WYES's 'Terms and Conditions', which can be viewed on the WYES website (<http://wyjs.org.uk/ecology-service/>).

2 Species

Please see Appendix C for records held by WYES within your defined search area.

3 Designated sites

3.1 INTERNATIONALLY DESIGNATED SITE

3.1.1 Special Protection Areas

There are no Special Protection Areas within your search area.

3.1.2 Special Areas of Conservation

There are no Special Areas of Conservation within your search area.

3.2 NATIONALLY DESIGNATED SITES

3.2.1 Sites of Special Scientific Interest

'Sites of Special Scientific Interest' (SSSI) are first-tier sites for conservation. They are areas identified by Natural England as being of interest by reason of their flora, fauna,

geological or physiological features. They are of national importance and have statutory protection. Sites recorded include:

- Honley Station Cutting

Citations for SSSIs can be found on the Natural England website, <https://designatedsites.naturalengland.org.uk/>

3.3 LOCALLY DESIGNATED SITES

3.3.1 Sites of Scientific Interest

'Sites of Scientific Interest' (SSI) are areas identified by the relevant local authority as being important for their flora and fauna. They are of county wide importance. Sites recorded include:

- Hey Wood / West Wood

Citations for SSIs are provided in Appendix B.

3.3.2 Local Wildlife Sites

West Yorkshire is currently going through a process of merging 2nd and 3rd tier local sites into a single Local Wildlife Site (LWS) designation. Sites should be given the same protection as SSIs, as set out in UDPs/LDFs.

- Almondbury Common
- Arkenley Lane
- Arthur, Molly Carr & Roaf Woods
- Castle Hill
- Hey Wood / West Wood
- Long Hill Plantation
- Park Wood
- Upper Park Wood

Citations for LWS are provided in Appendix B.

Please refer to the link below for the West Yorkshire Local Wildlife Site Selection Criteria. <http://wyjs.org.uk/media/1425/240216-wy-local-sites-selection-criteria-21-01-2016-rm.pdf>

3.3.3 Kirklees – Sites of Wildlife Significance

Kirklees – Sites of Wildlife Significance (SWS) are sites of local or district-wide importance for the enjoyment, study or conservation of wildlife, geological features and landforms, but there is seldom detailed ecological information on record for them. Sites recorded include:

- Park Wood
- Upper Park Wood

Your site centroid lies within the Kirklees Wildlife Habitat Network. See Figure 1 for Kirklees Wildlife Habitat Network data.

The Wildlife Habitat Network aims to meet the requirements of paragraph 114 of the National Planning Policy Framework for Conserving and enhancing the natural environment - Local planning authorities should: “set out a strategic approach in their Local Plans, planning positively for the creation, protection, enhancement and management of networks of biodiversity and green infrastructure”.

Wildlife Habitat Network data for Kirklees can be found on the link below:
http://consult.kirklees.gov.uk/portal/dlp_pol?pointId=s1442851813908

NE5 development proposals involving land identified on the proposals map as part of a wildlife corridor should make provision for the retention of the corridor and the protection of the wildlife value of the land.

3.3.4 Local Nature Reserves

Local Nature Reserves (LNR) are sites of local or district-wide importance for the enjoyment, study or conservation of wildlife, geological features and landforms, but there is seldom detailed ecological information on record for them. Sites recorded include:

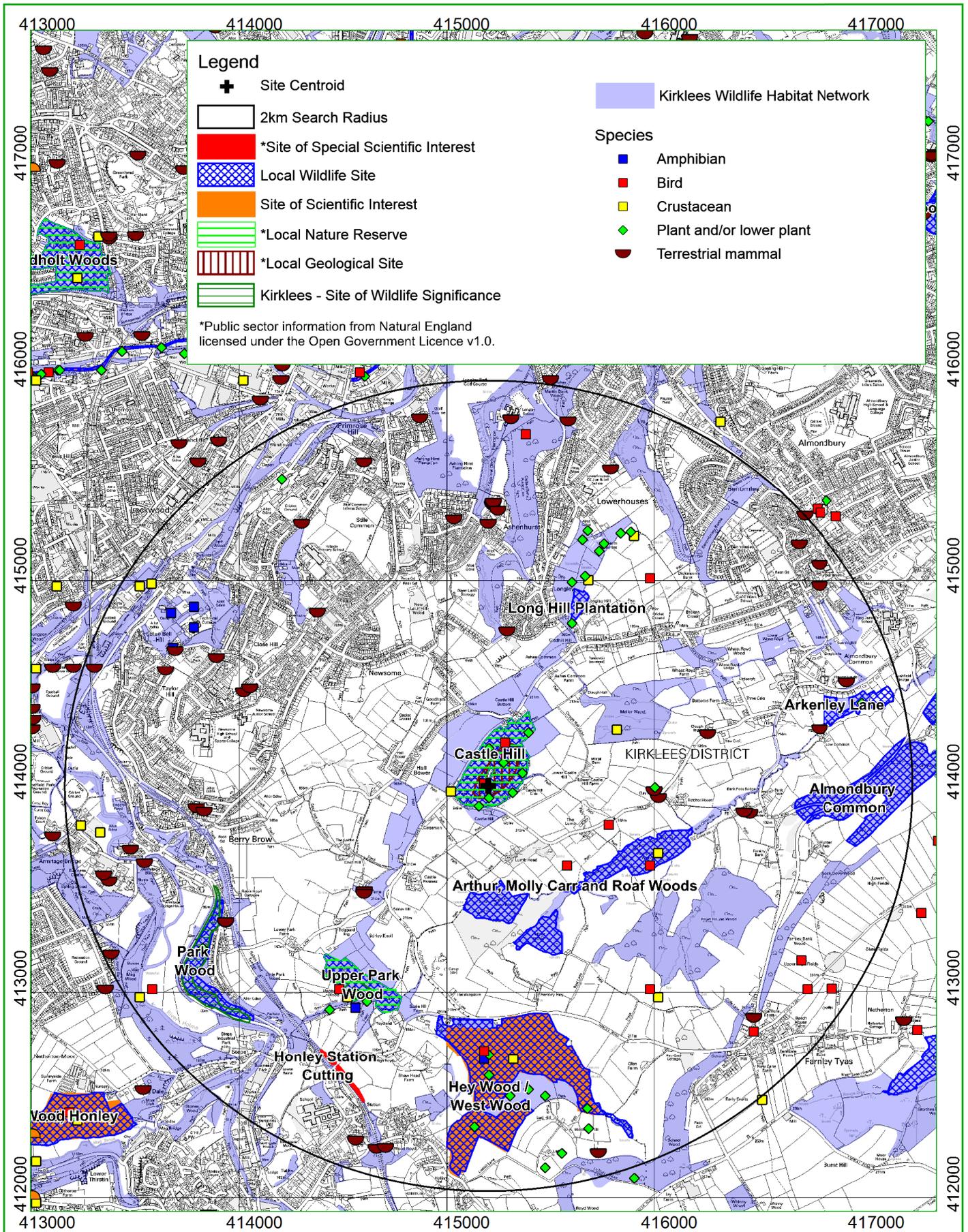
- Castle Hill
- Upper Park Wood

3.3.5 Local Geological Sites

There is a Local Geological Site (LGS) within your search area, namely Castle Hill. LGS are areas identified as being important for their geological features. More details of this or other LGS sites can be obtained from the West Yorkshire Geology Trust (team@wyorksgologytrust.org).

LGS citations are provided in Appendix B.

Figure 1 – Species and Designated Sites



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Scale 1:25000
At Size A4



West Yorkshire Ecology Service

**FIGURE 1:
SPECIES &
DESIGNATED
SITES**

4 Habitats

4.1 UK PRIORITY HABITATS

Natural England (English Nature) creates, maintains and publishes priority habitat inventories across the UK. These have been reproduced on Figure 2 with permission from Natural England. The terms of use for Natural England's Information and Data can be found at the following web site: <http://www.naturalengland.org.uk/copyright/>.

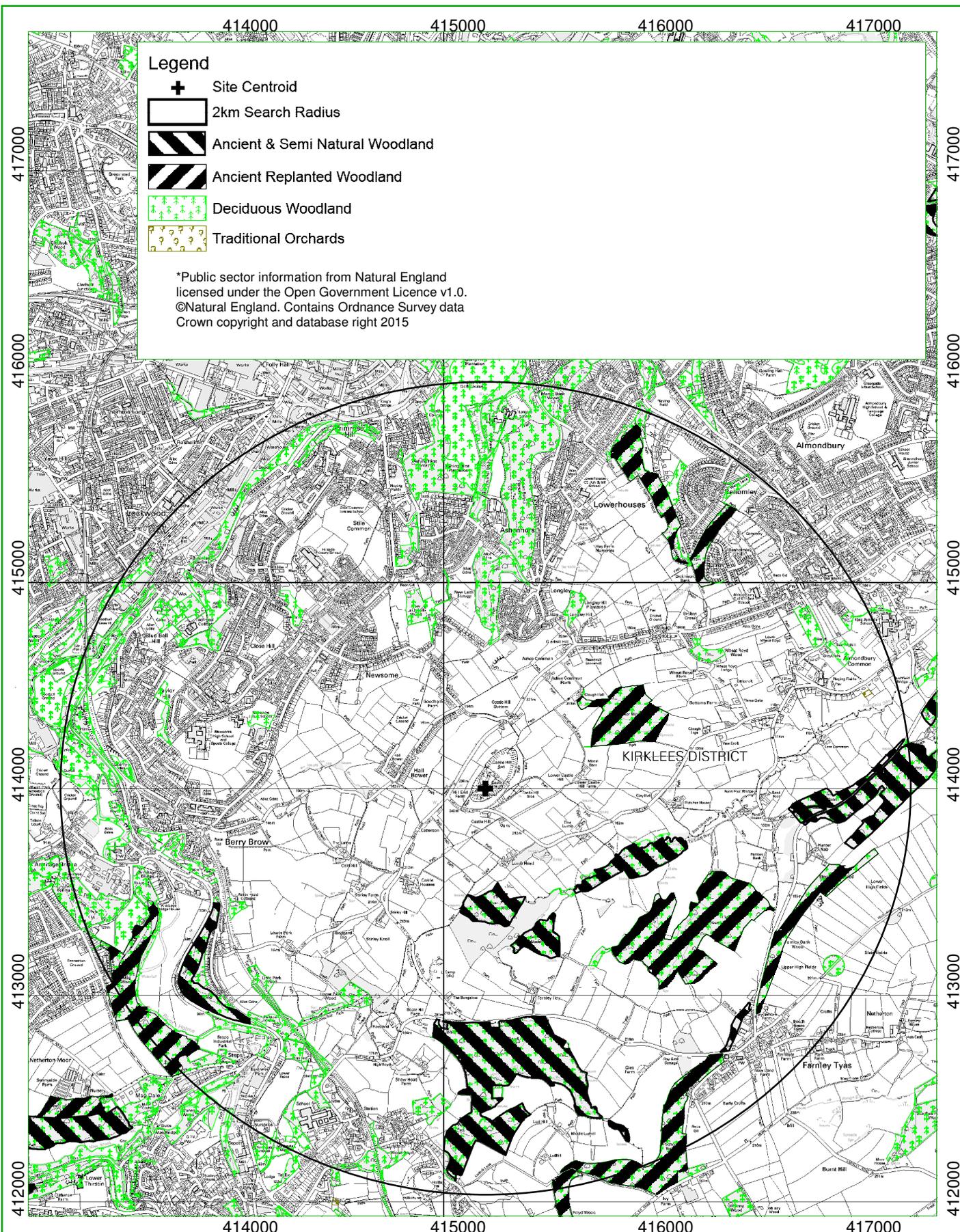
Please note that WYE has combined priority main habitats with those classified as candidate habitats. Please see the metadata description sheet produced by Natural England for further information. Detailed habitats can be supplied upon request.

The habitats identified within the search area are:

- Ancient & Semi-Natural Woodland
- Ancient Replanted Woodland
- Deciduous Woodland
- Traditional Orchards

Figure 2 – UK Priority Habitats





Legend

- Site Centroid
- 2km Search Radius
- Ancient & Semi Natural Woodland
- Ancient Replanted Woodland
- Deciduous Woodland
- Traditional Orchards

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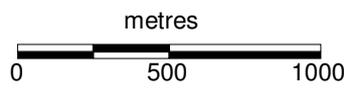
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Scale 1: 25000
At Size A4



**FIGURE 2:
UK
PRIORITY
HABITATS**



Appendix A. Explanation of Species Designations

Wildlife and Countryside Act 1981 – main designations cited

Abbreviation	Full Name	Description	Offences include, but not limited to
Sch1_part1	Schedule 1, Part 1	Birds which are protected by special penalties at all times	<ul style="list-style-type: none"> disturb any specially protected bird while it is building its nest; disturb any specially protected bird while it is near a nest containing eggs or young; or disturb the young of any of these birds before they are wholly independent.
Sch1_part2	Schedule 1, Part 2	Birds which are protected by special penalties during the close season	
Sch5	Schedule 5	Animals which are protected	<ul style="list-style-type: none"> intentional or reckless killing, injuring, taking; damage to, destruction of, obstruction of access to any structure or place used by a scheduled animal for shelter or protection; and disturbance of animal occupying such a structure or place.
Sch5_sect9.1	Schedule 5, Section 9(1)	Animals which are protected from killing and/or taking	<ul style="list-style-type: none"> intentional killing, injuring and/or taking <p>NB: certain species are only partly protected by this section. Check primary legislation for details.</p>
Sch5_sect9.5	Schedule 5, Section 9(5)	Animals which are protected from sale	<ul style="list-style-type: none"> selling, offering for sale, possessing or transporting for the purpose of sale (live or dead animal, part or derivative); and advertising for buying or selling such things
Sch8	Schedule 8	Plants which are fully protected	<ul style="list-style-type: none"> pick, uproot, trade in, or possess (for the purposes of trade).
Sch8_sect 13.2 (sale only)	Schedule 8, Sections 13(2a+2b)	Plants which are protected from sale only	<ul style="list-style-type: none"> selling, offering for sale, possessing or transporting for the purpose of sale, any plant (live or dead, part or derivative) + advertising for buying or selling such things

Sch9_part1	Schedule 9, Part 1	Animals which are established in the wild.	<ul style="list-style-type: none"> the release of animals and planting of plants listed in Schedule 9. the above offences can be made legal through the granting of licences by the appropriate authorities. NB: <i>Tyto alba</i> refers to captive bred only.
Sch9_part2	Schedule 9, Part 2	Plants which are established in the wild.	

Biodiversity Action Plans

Abbreviation	Full Name
UKBAP	UK Biodiversity Action Plan
WYBAP	West Yorkshire Priority Species List
Bradford BAP	Bradford Biodiversity Action Plan
Calderdale BAP	Calderdale Biodiversity Action Plan
Kirklees BAP	Kirklees Biodiversity Action Plan
Leeds BAP	Leeds Biodiversity Action Plan
Wakefield BAP	Wakefield Biodiversity Action Plan

Birds of Conservation Concern (BOCC) 2009

List	Description
Red	High conservation concern
Amber	Medium conservation concern

Red Data Book Categories (Based on ICUN Guidelines)

Abbreviation	Full Name
EX	Extinct
EW	Extinct in the Wild
CR	Critically Endangered
VU	Vulnerable
NT	Near Threatened
LC	Least Concern
DD	Data Deficient
NE	Not Evaluated

Nationally Notable Invertebrates:

Abbreviation	Full Name	Description
NR	Nationally Rare	found in 15 or fewer hectads
Notable or NS	Nationally Notable or Nationally Scarce	found in between 16 and 100 hectads
Notable A	Nationally Notable A	found in 16 to 30 hectads
Notable B	Nationally Notable B	found in between 31 and 100 hectads

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West Yorkshire Biodiversity Action Partnership (2009), *West Yorkshire Priority Species List*, West Yorkshire Ecology, Wakefield.

Appendix B. Designated Site Citations

Appendix C. Species Records

Grid Ref	Common Name	Latin Name	Taxon Group	Date	Record Type	Abundance	Designation	Distance from site centroid (m)
SE14581295	Common Toad	<i>Bufo bufo</i>	amphibian	21/06/2013	field observation		Sch5_sect9.5b; UKBAP; WYBAP; Kirklees BAP	1,218
SE152127	Common Toad	<i>Bufo bufo</i>	amphibian	20/08/2002	field record		Sch5_sect9.5b; UKBAP; WYBAP; Kirklees BAP	1,299
SE152127	Common Toad	<i>Bufo bufo</i>	amphibian	08/05/1997	field record		Sch5_sect9.5b; UKBAP; WYBAP; Kirklees BAP	1,299
SE137147	Common Frog	<i>Rana temporaria</i>	amphibian	23/04/2009	netted	0 Count of Adult Female; 1 Count of Adult; 1 Count of Adult Male	Sch5_sect9.5b; WYBAP	1,651
SE14581295	Common Frog	<i>Rana temporaria</i>	amphibian	21/06/2013	field observation		Sch5_sect9.5b; WYBAP	1,218
SE152127	Common Frog	<i>Rana temporaria</i>	amphibian	20/08/2002	field record		Sch5_sect9.5b; WYBAP	1,299
SE152127	Common Frog	<i>Rana temporaria</i>	amphibian	08/05/1997	field record		Sch5_sect9.5b; WYBAP	1,299
SE13691487	Great Crested Newt	<i>Triturus cristatus</i>	amphibian	25/06/2008	Bottle trap	10 Count of Adult Male; 12 Count of Adult Female	Sch5; UKBAP; WYBAP; Kirklees BAP	1,739

Grid Ref	Common Name	Latin Name	Taxon Group	Date	Record Type	Abundance	Designation	Distance from site centroid (m)
SE137147	Great Crested Newt	<i>Triturus cristatus</i>	amphibian	23/04/2009	Bottle trap	2 Count of Adult Male; 4 Count of Adult Female; 6 Count of Adult	Sch5; UKBAP; WYBAP; Kirklees BAP	1,651
SE138148	Great Crested Newt	<i>Triturus cristatus</i>	amphibian	27/06/2005	field record		Sch5; UKBAP; WYBAP; Kirklees BAP	1,609
SE13691487	Palmate Newt	<i>Triturus helveticus</i>	amphibian	25/06/2008	Bottle trap		Sch5_sect9.5b; WYBAP	1,739
SE137147	Palmate Newt	<i>Triturus helveticus</i>	amphibian	23/04/2009	Bottle trap	114 Count of Adult; 32 Count of Adult Female; 82 Count of Adult Male	Sch5_sect9.5b; WYBAP	1,651
SE138149	Palmate Newt	<i>Triturus helveticus</i>	amphibian	27/06/2005	field record		Sch5_sect9.5b; WYBAP	1,661
SE13691487	Smooth Newt	<i>Triturus vulgaris</i>	amphibian	25/06/2008	Bottle trap		Sch5_sect9.5b; WYBAP	1,739
SE137147	Smooth Newt	<i>Triturus vulgaris</i>	amphibian	23/04/2009	Bottle trap	11 Count of Adult Female; 12 Count of Adult Male; 23 Count of Adult	Sch5_sect9.5b; WYBAP	1,651
SE158138	Skylark	<i>Alauda arvensis</i>	bird	2002	field record		BoCC:Red; UKBAP; WYBAP; Kirklees BAP	631
SE136130	Mallard	<i>Anas platyrhynchos</i>	bird	1970 - 1988	field record		BoCC:Amber	1,883

Grid Ref	Common Name	Latin Name	Taxon Group	Date	Record Type	Abundance	Designation	Distance from site centroid (m)
SE152127	Mallard	<i>Anas platyrhynchos</i>	bird	08/05/1997	field record		BoCC:Amber	1,299
SE1613	Mallard	<i>Anas platyrhynchos</i>	bird	1970 - 1988	field record		BoCC:Amber	1,279
SE152140	Meadow Pipit	<i>Anthus pratensis</i>	bird	2002	field record		BoCC:Amber	0
SE152127	Tree Pipit	<i>Anthus trivialis</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP; Kirklees BAP	1,299
SE1613	Tree Pipit	<i>Anthus trivialis</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP; Kirklees BAP	1,279
SE136130	Swift	<i>Apus apus</i>	bird	1970 - 1988	field record		BoCC:Amber; WYBAP	1,883
SE152140	Swift	<i>Apus apus</i>	bird	Unknown	field record		BoCC:Amber; WYBAP	0
SE153142	Swift	<i>Apus apus</i>	bird	2008	field record		BoCC:Amber; WYBAP	223
SE154157	Swift	<i>Apus apus</i>	bird	16/05/2007	field record		BoCC:Amber; WYBAP	1,711
SE1649912795	Swift	<i>Apus apus</i>	bird	2010	field record		BoCC:Amber; WYBAP	1,769
SE152140	Canada Goose	<i>Branta canadensis</i>	bird	Unknown	field record		Sch9_part1	0
SE145130	Linnet	<i>Carduelis cannabina</i>	bird	04/05/2008	field record		BoCC:Red; UKBAP; WYBAP; Kirklees BAP	1,219
SE152127	Linnet	<i>Carduelis cannabina</i>	bird	08/05/1997	field record		BoCC:Red; UKBAP;	1,299

Grid Ref	Common Name	Latin Name	Taxon Group	Date	Record Type	Abundance	Designation	Distance from site centroid (m)
							WYBAP; Kirklees BAP	
SE152140	Linnet	<i>Carduelis cannabina</i>	bird	Unknown	field record		BoCC:Red; UKBAP; WYBAP; Kirklees BAP	0
SE158138	Linnet	<i>Carduelis cannabina</i>	bird	2002	field record		BoCC:Red; UKBAP; WYBAP; Kirklees BAP	631
SE1673013140	Linnet	<i>Carduelis cannabina</i>	bird	07/04/2000 - 07/06/2000	field record	1 Count of Breeding Pair	BoCC:Red; UKBAP; WYBAP; Kirklees BAP	1,751
SE1676013000	Linnet	<i>Carduelis cannabina</i>	bird	15/04/2000 - 15/06/2000	field record	2 Count of Breeding Pair	BoCC:Red; UKBAP; WYBAP; Kirklees BAP	1,849
SE1688013000	Linnet	<i>Carduelis cannabina</i>	bird	15/04/2000 - 15/06/2000	field record	1 Count of Breeding Pair	BoCC:Red; UKBAP; WYBAP; Kirklees BAP	1,951
SE145130	Goldfinch	<i>Carduelis carduelis</i>	bird	21/06/2013	field observation		Kirklees BAP	1,219
SE145130	Goldfinch	<i>Carduelis carduelis</i>	bird	04/05/2008	field record		Kirklees BAP	1,219
SE152127	Goldfinch	<i>Carduelis carduelis</i>	bird	08/05/1997	field record		Kirklees BAP	1,299
SE152140	Goldfinch	<i>Carduelis carduelis</i>	bird	Unknown	field record		Kirklees BAP	0
SE1613	Goldfinch	<i>Carduelis carduelis</i>	bird	1970 - 1988	field record		Kirklees BAP	1,279

Grid Ref	Common Name	Latin Name	Taxon Group	Date	Record Type	Abundance	Designation	Distance from site centroid (m)
SE136130	Stock Dove	<i>Columba oenas</i>	bird	1970 - 1988	field record		BoCC:Amber	1,883
SE1613	Stock Dove	<i>Columba oenas</i>	bird	1970 - 1988	field record		BoCC:Amber	1,279
SE152127	Cuckoo	<i>Cuculus canorus</i>	bird	08/05/1997	field record		BoCC:Red; UKBAP; WYBAP	1,299
SE1613	Cuckoo	<i>Cuculus canorus</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP	1,279
SE136130	House Martin	<i>Delichon urbica</i>	bird	1970 - 1988	field record		BoCC:Amber; WYBAP	1,883
SE152140	House Martin	<i>Delichon urbica</i>	bird	Unknown	field record		BoCC:Amber; WYBAP	0
SE1613	House Martin	<i>Delichon urbica</i>	bird	1970 - 1988	field record		BoCC:Amber; WYBAP	1,279
SE152127	Lesser Spotted Woodpecker	<i>Dendrocopos minor</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP	1,299
SE160136	Lesser Spotted Woodpecker	<i>Dendrocopos minor</i>	bird	2002	field record		BoCC:Red; UKBAP; WYBAP	892
SE1613	Lesser Spotted Woodpecker	<i>Dendrocopos minor</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP	1,279
SE152127	Yellowhammer	<i>Emberiza citrinella</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP	1,299
SE152140	Yellowhammer	<i>Emberiza citrinella</i>	bird	Oct-05	field record		BoCC:Red; UKBAP; WYBAP	0

Grid Ref	Common Name	Latin Name	Taxon Group	Date	Record Type	Abundance	Designation	Distance from site centroid (m)
SE153142	Yellowhammer	<i>Emberiza citrinella</i>	bird	2008	field record		BoCC:Red; UKBAP; WYBAP	223
SE156136	Yellowhammer	<i>Emberiza citrinella</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP	565
SE158138	Yellowhammer	<i>Emberiza citrinella</i>	bird	2002	field record		BoCC:Red; UKBAP; WYBAP	631
SE1613	Yellowhammer	<i>Emberiza citrinella</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP	1,279
SE152127	Kestrel	<i>Falco tinnunculus</i>	bird	1970 - 1988	field record		BoCC:Amber; WYBAP; Kirklees BAP	1,299
SE152127	Kestrel	<i>Falco tinnunculus</i>	bird	08/05/1997	field record		BoCC:Amber; WYBAP; Kirklees BAP	1,299
SE152140	Kestrel	<i>Falco tinnunculus</i>	bird	Unknown	field record		BoCC:Amber; WYBAP; Kirklees BAP	0
SE153142	Kestrel	<i>Falco tinnunculus</i>	bird	2008	field record		BoCC:Amber; WYBAP; Kirklees BAP	223
SE156136	Kestrel	<i>Falco tinnunculus</i>	bird	1970 - 1988	field record		BoCC:Amber; WYBAP; Kirklees BAP	565
SE1613	Kestrel	<i>Falco tinnunculus</i>	bird	1970 - 1988	field record		BoCC:Amber; WYBAP; Kirklees BAP	1,279
SE152127	Brambling	<i>Fringilla montifringilla</i>	bird	1970 - 1988	field record		Sch1_part1	1,299

Grid Ref	Common Name	Latin Name	Taxon Group	Date	Record Type	Abundance	Designation	Distance from site centroid (m)
SE152127	Brambling	<i>Fringilla montifringilla</i>	bird	08/05/1997	field record		Sch1_part1	1,299
SE158138	Brambling	<i>Fringilla montifringilla</i>	bird	2002	field record		Sch1_part1	631
SE1613	Brambling	<i>Fringilla montifringilla</i>	bird	1970 - 1988	field record		Sch1_part1	1,279
SE136130	Swallow	<i>Hirundo rustica</i>	bird	1970 - 1988	field record		BoCC:Amber; WYBAP; Kirklees BAP	1,883
SE145130	Swallow	<i>Hirundo rustica</i>	bird	04/05/2008	field record		BoCC:Amber; WYBAP; Kirklees BAP	1,219
SE152127	Swallow	<i>Hirundo rustica</i>	bird	1970 - 1988	field record		BoCC:Amber; WYBAP; Kirklees BAP	1,299
SE152140	Swallow	<i>Hirundo rustica</i>	bird	Unknown	field record		BoCC:Amber; WYBAP; Kirklees BAP	0
SE153142	Swallow	<i>Hirundo rustica</i>	bird	2008	field record		BoCC:Amber; WYBAP; Kirklees BAP	223
SE1613	Swallow	<i>Hirundo rustica</i>	bird	1970 - 1988	field record		BoCC:Amber; WYBAP; Kirklees BAP	1,279
SE145130	Lesser Black-Backed Gull	<i>Larus fuscus</i>	bird	04/05/2008	field record		BoCC:Amber	1,219
SE152140	Lesser Black-Backed Gull	<i>Larus fuscus</i>	bird	Unknown	field record		BoCC:Amber	0
SE1615	Black-Headed Gull	<i>Larus ridibundus</i>	bird	1970 - 1988	field record		BoCC:Amber	1,279
SE136130	Grey Wagtail	<i>Motacilla cinerea</i>	bird	1970 - 1988	field record		BoCC:Amber	1,883

Grid Ref	Common Name	Latin Name	Taxon Group	Date	Record Type	Abundance	Designation	Distance from site centroid (m)
SE136130	Spotted Flycatcher	<i>Muscicapa striata</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP; Kirklees BAP	1,883
SE152127	Spotted Flycatcher	<i>Muscicapa striata</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP; Kirklees BAP	1,299
SE1613	Spotted Flycatcher	<i>Muscicapa striata</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP; Kirklees BAP	1,279
SE152140	Wheatear	<i>Oenanthe oenanthe</i>	bird	Unknown	field record		BoCC:Amber	0
SE1613	Willow Tit	<i>Parus montanus</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP; Kirklees BAP	1,279
SE136130	House Sparrow	<i>Passer domesticus</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP; Kirklees BAP	1,883
SE145130	House Sparrow	<i>Passer domesticus</i>	bird	04/05/2008	field record		BoCC:Red; UKBAP; WYBAP; Kirklees BAP	1,219
SE152127	House Sparrow	<i>Passer domesticus</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP; Kirklees BAP	1,299
SE1613	House Sparrow	<i>Passer domesticus</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP;	1,279

Grid Ref	Common Name	Latin Name	Taxon Group	Date	Record Type	Abundance	Designation	Distance from site centroid (m)
							WYBAP; Kirklees BAP	
SE1615	House Sparrow	<i>Passer domesticus</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP; Kirklees BAP	1,279
SE152127	Tree Sparrow	<i>Passer montanus</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP; Kirklees BAP	1,299
SE156136	Tree Sparrow	<i>Passer montanus</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP; Kirklees BAP	565
SE158138	Tree Sparrow	<i>Passer montanus</i>	bird	2002	field record		BoCC:Red; UKBAP; WYBAP; Kirklees BAP	631
SE1613	Tree Sparrow	<i>Passer montanus</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP; Kirklees BAP	1,279
SE1613	Grey Partridge	<i>Perdix perdix</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP; Kirklees BAP	1,279
SE136130	Redstart	<i>Phoenicurus phoenicurus</i>	bird	1970 - 1988	field record		BoCC:Amber	1,883
SE1613	Redstart	<i>Phoenicurus phoenicurus</i>	bird	1970 - 1988	field record		BoCC:Amber	1,279
SE1613	Wood Warbler	<i>Phylloscopus sibilatrix</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP;	1,279

Grid Ref	Common Name	Latin Name	Taxon Group	Date	Record Type	Abundance	Designation	Distance from site centroid (m)
							WYBAP; Kirklees BAP	
SE136130	Willow Warbler	<i>Phylloscopus trochilus</i>	bird	1970 - 1988	field record		BoCC:Amber	1,883
SE145130	Willow Warbler	<i>Phylloscopus trochilus</i>	bird	04/05/2008	field record		BoCC:Amber	1,219
SE152127	Willow Warbler	<i>Phylloscopus trochilus</i>	bird	08/05/1997	field record		BoCC:Amber	1,299
SE152127	Willow Warbler	<i>Phylloscopus trochilus</i>	bird	1970 - 1988	field record		BoCC:Amber	1,299
SE153142	Willow Warbler	<i>Phylloscopus trochilus</i>	bird	2008	field record		BoCC:Amber	223
SE156136	Willow Warbler	<i>Phylloscopus trochilus</i>	bird	1970 - 1988	field record		BoCC:Amber	565
SE1613	Willow Warbler	<i>Phylloscopus trochilus</i>	bird	1970 - 1988	field record		BoCC:Amber	1,279
SE136130	Green Woodpecker	<i>Picus viridis</i>	bird	1970 - 1988	field record		BoCC:Amber	1,883
SE145130	Green Woodpecker	<i>Picus viridis</i>	bird	04/05/2008	field record		BoCC:Amber	1,219
SE152127	Green Woodpecker	<i>Picus viridis</i>	bird	08/05/1997	field record		BoCC:Amber	1,299
SE152127	Green Woodpecker	<i>Picus viridis</i>	bird	1970 - 1988	field record		BoCC:Amber	1,299
SE160136	Green Woodpecker	<i>Picus viridis</i>	bird	2002	field record		BoCC:Amber	892
SE1613	Green Woodpecker	<i>Picus viridis</i>	bird	1970 - 1988	field record		BoCC:Amber	1,279
SE136130	Dunnock	<i>Prunella modularis</i>	bird	1970 - 1988	field record		BoCC:Amber; UKBAP; WYBAP; Kirklees BAP	1,883

Grid Ref	Common Name	Latin Name	Taxon Group	Date	Record Type	Abundance	Designation	Distance from site centroid (m)
SE145130	Dunnock	<i>Prunella modularis</i>	bird	21/06/2013	field observation		BoCC:Amber; UKBAP; WYBAP; Kirklees BAP	1,219
SE145130	Dunnock	<i>Prunella modularis</i>	bird	04/05/2008	field record		BoCC:Amber; UKBAP; WYBAP; Kirklees BAP	1,219
SE152127	Dunnock	<i>Prunella modularis</i>	bird	08/05/1997	field record		BoCC:Amber; UKBAP; WYBAP; Kirklees BAP	1,299
SE152127	Dunnock	<i>Prunella modularis</i>	bird	1970 - 1988	field record		BoCC:Amber; UKBAP; WYBAP; Kirklees BAP	1,299
SE152140	Dunnock	<i>Prunella modularis</i>	bird	Unknown	field record		BoCC:Amber; UKBAP; WYBAP; Kirklees BAP	0
SE153142	Dunnock	<i>Prunella modularis</i>	bird	2008	field record		BoCC:Amber; UKBAP; WYBAP; Kirklees BAP	223
SE154157	Dunnock	<i>Prunella modularis</i>	bird	16/05/2007	field record		BoCC:Amber; UKBAP; WYBAP; Kirklees BAP	1,711
SE156136	Dunnock	<i>Prunella modularis</i>	bird	1970 - 1988	field record		BoCC:Amber; UKBAP; WYBAP; Kirklees BAP	565

Grid Ref	Common Name	Latin Name	Taxon Group	Date	Record Type	Abundance	Designation	Distance from site centroid (m)
SE1613	Dunnock	<i>Prunella modularis</i>	bird	1970 - 1988	field record		BoCC:Amber; UKBAP; WYBAP; Kirklees BAP	1,279
SE136130	Bullfinch	<i>Pyrrhula pyrrhula</i>	bird	1970 - 1988	field record		BoCC:Amber; UKBAP; WYBAP; Kirklees BAP	1,883
SE145130	Bullfinch	<i>Pyrrhula pyrrhula</i>	bird	04/05/2008	field record		BoCC:Amber; UKBAP; WYBAP; Kirklees BAP	1,219
SE152127	Bullfinch	<i>Pyrrhula pyrrhula</i>	bird	08/05/1997	field record		BoCC:Amber; UKBAP; WYBAP; Kirklees BAP	1,299
SE152127	Bullfinch	<i>Pyrrhula pyrrhula</i>	bird	1970 - 1988	field record		BoCC:Amber; UKBAP; WYBAP; Kirklees BAP	1,299
SE152140	Bullfinch	<i>Pyrrhula pyrrhula</i>	bird	Unknown	field record		BoCC:Amber; UKBAP; WYBAP; Kirklees BAP	0
SE156136	Bullfinch	<i>Pyrrhula pyrrhula</i>	bird	1970 - 1988	field record		BoCC:Amber; UKBAP; WYBAP; Kirklees BAP	565
SE158138	Bullfinch	<i>Pyrrhula pyrrhula</i>	bird	2002	field record		BoCC:Amber; UKBAP; WYBAP; Kirklees BAP	631

Grid Ref	Common Name	Latin Name	Taxon Group	Date	Record Type	Abundance	Designation	Distance from site centroid (m)
SE1613	Bullfinch	<i>Pyrrhula pyrrhula</i>	bird	1970 - 1988	field record		BoCC:Amber; UKBAP; WYBAP; Kirklees BAP	1,279
SE1615	Bullfinch	<i>Pyrrhula pyrrhula</i>	bird	1970 - 1988	field record		BoCC:Amber; UKBAP; WYBAP; Kirklees BAP	1,279
SE136130	Starling	<i>Sturnus vulgaris</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP; Kirklees BAP	1,883
SE145130	Starling	<i>Sturnus vulgaris</i>	bird	04/05/2008	field record		BoCC:Red; UKBAP; WYBAP; Kirklees BAP	1,219
SE152127	Starling	<i>Sturnus vulgaris</i>	bird	08/05/1997	field record		BoCC:Red; UKBAP; WYBAP; Kirklees BAP	1,299
SE152127	Starling	<i>Sturnus vulgaris</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP; Kirklees BAP	1,299
SE156136	Starling	<i>Sturnus vulgaris</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP; Kirklees BAP	565
SE1613	Starling	<i>Sturnus vulgaris</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP; Kirklees BAP	1,279

Grid Ref	Common Name	Latin Name	Taxon Group	Date	Record Type	Abundance	Designation	Distance from site centroid (m)
SE1615	Starling	<i>Sturnus vulgaris</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP; Kirklees BAP	1,279
SE145130	Whitethroat	<i>Sylvia communis</i>	bird	21/06/2013	field observation		BoCC:Amber	1,219
SE145130	Whitethroat	<i>Sylvia communis</i>	bird	04/05/2008	field record		BoCC:Amber	1,219
SE152127	Whitethroat	<i>Sylvia communis</i>	bird	1970 - 1988	field record		BoCC:Amber	1,299
SE152127	Redwing	<i>Turdus iliacus</i>	bird	08/05/1997	field record		Sch1_part1; BoCC:Red	1,299
SE152127	Redwing	<i>Turdus iliacus</i>	bird	1970 - 1988	field record		Sch1_part1; BoCC:Red	1,299
SE156136	Redwing	<i>Turdus iliacus</i>	bird	1970 - 1988	field record		Sch1_part1; BoCC:Red	565
SE136130	Song Thrush	<i>Turdus philomelos</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP; Kirklees BAP	1,883
SE145130	Song Thrush	<i>Turdus philomelos</i>	bird	04/05/2008	field record		BoCC:Red; UKBAP; WYBAP; Kirklees BAP	1,219
SE145130	Song Thrush	<i>Turdus philomelos</i>	bird	21/06/2013	field observation		BoCC:Red; UKBAP; WYBAP; Kirklees BAP	1,219
SE152127	Song Thrush	<i>Turdus philomelos</i>	bird	08/05/1997	field record		BoCC:Red; UKBAP; WYBAP; Kirklees BAP	1,299

Grid Ref	Common Name	Latin Name	Taxon Group	Date	Record Type	Abundance	Designation	Distance from site centroid (m)
SE152127	Song Thrush	<i>Turdus philomelos</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP; Kirklees BAP	1,299
SE152140	Song Thrush	<i>Turdus philomelos</i>	bird	Unknown	field record		BoCC:Red; UKBAP; WYBAP; Kirklees BAP	0
SE156136	Song Thrush	<i>Turdus philomelos</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP; Kirklees BAP	565
SE158138	Song Thrush	<i>Turdus philomelos</i>	bird	2002	field record		BoCC:Red; UKBAP; WYBAP; Kirklees BAP	631
SE1613	Song Thrush	<i>Turdus philomelos</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP; Kirklees BAP	1,279
SE1615	Song Thrush	<i>Turdus philomelos</i>	bird	1970 - 1988	field record		BoCC:Red; UKBAP; WYBAP; Kirklees BAP	1,279
SE1673013140	Song Thrush	<i>Turdus philomelos</i>	bird	07/04/2000 - 07/06/2000	field record	1 Count of Breeding Pair	BoCC:Red; UKBAP; WYBAP; Kirklees BAP	1,751
SE152127	Fieldfare	<i>Turdus pilaris</i>	bird	08/05/1997	field record		Sch1_part1; BoCC:Red	1,299
SE152127	Fieldfare	<i>Turdus pilaris</i>	bird	1970 - 1988	field record		Sch1_part1; BoCC:Red	1,299

Grid Ref	Common Name	Latin Name	Taxon Group	Date	Record Type	Abundance	Designation	Distance from site centroid (m)
SE152140	Fieldfare	<i>Turdus pilaris</i>	bird	Unknown	field record		Sch1_part1; BoCC:Red	0
SE156136	Fieldfare	<i>Turdus pilaris</i>	bird	1970 - 1988	field record		Sch1_part1; BoCC:Red	565
SE1613	Fieldfare	<i>Turdus pilaris</i>	bird	1970 - 1988	field record		Sch1_part1; BoCC:Red	1,279
SE136130	Mistle Thrush	<i>Turdus viscivorus</i>	bird	1970 - 1988	field record		BoCC:Red	1,883
SE145130	Mistle Thrush	<i>Turdus viscivorus</i>	bird	04/05/2008	field record		BoCC:Red	1,219
SE152127	Mistle Thrush	<i>Turdus viscivorus</i>	bird	08/05/1997	field record		BoCC:Red	1,299
SE152127	Mistle Thrush	<i>Turdus viscivorus</i>	bird	1970 - 1988	field record		BoCC:Red	1,299
SE153142	Mistle Thrush	<i>Turdus viscivorus</i>	bird	2008	field record		BoCC:Red	223
SE1613	Mistle Thrush	<i>Turdus viscivorus</i>	bird	1970 - 1988	field record		BoCC:Red	1,279
SE1321613835	Freshwater Crayfish	<i>Austropotamobius pallipes</i>	crustacean	21/08/2006	field record		Sch5_sect9.1 (part) & 9.5; UKBAP; WYBAP	1,985
SE1330913802	White-clawed Crayfish	<i>Austropotamobius pallipes</i>	crustacean	01/10/2011	field record		Sch5_sect9.1 (part) & 9.5; UKBAP; WYBAP	1,896
SE1355615012	White-clawed Crayfish	<i>Austropotamobius pallipes</i>	crustacean	01/10/2011	field record		Sch5_sect9.1 (part) & 9.5; UKBAP; WYBAP	1,926
SE152126	Narrow-Leaved Water-Plantain	<i>Alisma lanceolatum</i>	flowering plant	Unknown	None		Kirklees BAP	1,399
SE152127	Narrow-Leaved Water-Plantain	<i>Alisma lanceolatum</i>	flowering plant	08/05/1997	field record	R Range of DAFOR	Kirklees BAP	1,299

Grid Ref	Common Name	Latin Name	Taxon Group	Date	Record Type	Abundance	Designation	Distance from site centroid (m)
SE152127	Narrow-Leaved Water-Plantain	<i>Alisma lanceolatum</i>	flowering plant	20/08/2002	field record	R Range of DAFOR	Kirklees BAP	1,299
SE153125	Narrow-Leaved Water-Plantain	<i>Alisma lanceolatum</i>	flowering plant	Unknown	field record		Kirklees BAP	1,503
SE160140	Common Centaury	<i>Centaureum erythraea</i>	flowering plant	Unknown	field record		Kirklees BAP	798
SE15151391	Good King Henry	<i>Chenopodium bonus-henricus</i>	flowering plant	2008	field record		RDB:post2001:V U	103
SE15201395	Good King Henry	<i>Chenopodium bonus-henricus</i>	flowering plant	2008	field record		RDB:post2001:V U	50
SE152140	Good King Henry	<i>Chenopodium bonus-henricus</i>	flowering plant	Oct-05	field record		RDB:post2001:V U	0
SE15271412	Good King Henry	<i>Chenopodium bonus-henricus</i>	flowering plant	2008	field record		RDB:post2001:V U	139
SE15681234	Northern Hawk's-Beard	<i>Crepis mollis</i>	flowering plant	23/08/2008	field record	r Count of DAFOR	RDB:post2001:EN; UKBAP	1,727
SE142155	Japanese Knotweed	<i>Fallopia japonica</i>	flowering plant	09/09/2006	field record		Sch9_part2	1,801
SE152140	Japanese Knotweed	<i>Fallopia japonica</i>	flowering plant	Oct-05	field record		Sch9_part2	0
SE1382013220	Bluebell	<i>Hyacinthoides non-scripta</i>	flowering plant	24/04/2015	field observation	LA Count of DAFOR	Sch8_sect 13.2; Kirklees BAP	1,582
SE14431292	Bluebell	<i>Hyacinthoides non-scripta</i>	flowering plant	21/06/2013	field observation	O Count of DAFOR	Sch8_sect 13.2; Kirklees BAP	1,325
SE14551301	Bluebell	<i>Hyacinthoides non-scripta</i>	flowering plant	21/06/2013	field observation	O Count of DAFOR	Sch8_sect 13.2; Kirklees BAP	1,183
SE14611296	Bluebell	<i>Hyacinthoides non-scripta</i>	flowering plant	21/06/2013	field observation	R Count of DAFOR	Sch8_sect 13.2; Kirklees BAP	1,194
SE14631299	Bluebell	<i>Hyacinthoides non-scripta</i>	flowering plant	21/06/2013	field observation	O Count of DAFOR	Sch8_sect 13.2; Kirklees BAP	1,159
SE1513012350	Bluebell	<i>Hyacinthoides non-scripta</i>	flowering plant	15/05/2015	field observation	LA Count of DAFOR	Sch8_sect 13.2; Kirklees BAP	1,651

Grid Ref	Common Name	Latin Name	Taxon Group	Date	Record Type	Abundance	Designation	Distance from site centroid (m)
SE15201419	Bluebell	<i>Hyacinthoides non-scripta</i>	flowering plant	2008	field record		Sch8_sect 13.2; Kirklees BAP	190
SE152127	Bluebell	<i>Hyacinthoides non-scripta</i>	flowering plant	08/05/1997	field record	D Range of DAFOR	Sch8_sect 13.2; Kirklees BAP	1,299
SE152127	Bluebell	<i>Hyacinthoides non-scripta</i>	flowering plant	20/08/2002	field record	D Range of DAFOR	Sch8_sect 13.2; Kirklees BAP	1,299
SE1531313974	Bluebell	<i>Hyacinthoides non-scripta</i>	flowering plant	30/06/2015	field observation	O Count of DAFOR	Sch8_sect 13.2; Kirklees BAP	116
SE15361407	Bluebell	<i>Hyacinthoides non-scripta</i>	flowering plant	2008	field record		Sch8_sect 13.2; Kirklees BAP	174
SE1538914266	Bluebell	<i>Hyacinthoides non-scripta</i>	flowering plant	30/06/2015	field observation	O Count of DAFOR	Sch8_sect 13.2; Kirklees BAP	326
SE156148	Bluebell	<i>Hyacinthoides non-scripta</i>	flowering plant	30/06/2015	field observation	LA Count of DAFOR	Sch8_sect 13.2; Kirklees BAP	894
SE156150	Bluebell	<i>Hyacinthoides non-scripta</i>	flowering plant	30/06/2015	field observation	R Count of DAFOR	Sch8_sect 13.2; Kirklees BAP	1,076
SE156150	Bluebell	<i>Hyacinthoides non-scripta</i>	flowering plant	30/06/2015	field observation	O Count of DAFOR	Sch8_sect 13.2; Kirklees BAP	1,076
SE1566315029	Bluebell	<i>Hyacinthoides non-scripta</i>	flowering plant	30/07/2006 - 12/09/2006	field record	Occasional Count of DAFOR	Sch8_sect 13.2; Kirklees BAP	1,127
SE1567312437	Bluebell	<i>Hyacinthoides non-scripta</i>	flowering plant	15/05/2015	field observation	LA Count of DAFOR	Sch8_sect 13.2; Kirklees BAP	1,632
SE1573115150	Bluebell	<i>Hyacinthoides non-scripta</i>	flowering plant	30/07/2006 - 12/09/2006	field record		Sch8_sect 13.2; Kirklees BAP	1,265
SE1575415185	Bluebell	<i>Hyacinthoides non-scripta</i>	flowering plant	30/07/2006 - 12/09/2006	field record	Occasional Count of DAFOR	Sch8_sect 13.2; Kirklees BAP	1,307
SE1583415237	Bluebell	<i>Hyacinthoides non-scripta</i>	flowering plant	30/06/2015	field observation	O Count of DAFOR	Sch8_sect 13.2; Kirklees BAP	1,389

Grid Ref	Common Name	Latin Name	Taxon Group	Date	Record Type	Abundance	Designation	Distance from site centroid (m)
SE1588415242	Bluebell	<i>Hyacinthoides non-scripta</i>	flowering plant	30/07/2006 - 12/09/2006	field record		Sch8_sect 13.2; Kirklees BAP	1,416
SE160140	Bluebell	<i>Hyacinthoides non-scripta</i>	flowering plant	26/06/2002	field record		Sch8_sect 13.2; Kirklees BAP	798
SE17001441	Bluebell	<i>Hyacinthoides non-scripta</i>	flowering plant	01/07/2011	field observation		Sch8_sect 13.2; Kirklees BAP	1,841
SE1513012350	Indian Balsam	<i>Impatiens glandulifera</i>	flowering plant	15/05/2015	field observation	O Count of DAFOR	Sch9_part2	1,651
SE1513012350	Indian Balsam	<i>Impatiens glandulifera</i>	flowering plant	15/05/2015	field observation	R Count of DAFOR	Sch9_part2	1,651
SE152127	Indian Balsam	<i>Impatiens glandulifera</i>	flowering plant	20/08/2002	field record	R Range of DAFOR	Sch9_part2	1,299
SE152127	Indian Balsam	<i>Impatiens glandulifera</i>	flowering plant	08/05/1997	field record	R Range of DAFOR	Sch9_part2	1,299
SE15471250	Indian Balsam	<i>Impatiens glandulifera</i>	flowering plant	23/08/2008	field record	Id Count of DAFOR	Sch9_part2	1,523
SE1567515250	Indian Balsam	<i>Impatiens glandulifera</i>	flowering plant	30/07/2006 - 12/09/2006	field record		Sch9_part2	1,336
SE1575415185	Indian Balsam	<i>Impatiens glandulifera</i>	flowering plant	30/07/2006 - 12/09/2006	field record		Sch9_part2	1,307
SE1565115205	Yellow Archangel	<i>Lamium galeobdolon subsp. argentatum</i>	flowering plant	30/06/2015	field observation	LA Count of DAFOR	Sch9_part2	1,286
SE15391253	Marsh Stitchwort	<i>Stellaria palustris</i>	flowering plant	23/08/2008	field record	r Count of DAFOR	RDB:post2001:V U; UKBAP	1,482
SE15471215	Marsh Stitchwort	<i>Stellaria palustris</i>	flowering plant	23/08/2008	field record	o Count of DAFOR	RDB:post2001:V U; UKBAP	1,869

Grid Ref	Common Name	Latin Name	Taxon Group	Date	Record Type	Abundance	Designation	Distance from site centroid (m)
SE15551222	Marsh Stitchwort	<i>Stellaria palustris</i>	flowering plant	23/08/2008	field record	r Count of DAFOR	RDB:post2001:VU; UKBAP	1,813
SE135130	Calathus ambiguus	<i>Calathus ambiguus</i>	insect - beetle (Coleoptera)	Unknown	field record		Notable:B	1,968
SE165125	Euryptilium saxonicum	<i>Euryptilium saxonicum</i>	insect - beetle (Coleoptera)	Unknown	field record		Notable	1,982
SE160130	Falagria sulcatula	<i>Falagria sulcatula</i>	insect - beetle (Coleoptera)	Unknown	field record		Notable	1,279
SE158143	Gyrophaena manca	<i>Gyrophaena manca</i>	insect - beetle (Coleoptera)	Unknown	field record		Notable	669
SE135150	Hydraena pygmaea	<i>Hydraena pygmaea</i>	insect - beetle (Coleoptera)	Unknown	field record		RDB:Pre94:NR	1,968
SE153127	Magdalis cerasi	<i>Magdalis cerasi</i>	insect - beetle (Coleoptera)	Unknown	field record		Notable:B	1,303
SE160137	Ptiliolum schwarzi	<i>Ptiliolum schwarzi</i>	insect - beetle (Coleoptera)	Unknown	field record		RDB:Pre94:Insu	852
SE1514	Wall	<i>Lasiommata megera</i>	insect - butterfly	2002	field record		UKBAP; WYBAP	199
SE145130	Cinnabar	<i>Tyria jacobaeae</i>	insect - moth	21/06/2013	field observation		UKBAP; WYBAP	1,219
SE1566315029	Cinnabar	<i>Tyria jacobaeae</i>	insect - moth	30/07/2006 - 12/09/2006	field record		UKBAP; WYBAP	1,127

Grid Ref	Common Name	Latin Name	Taxon Group	Date	Record Type	Abundance	Designation	Distance from site centroid (m)
SE1588415242	Cinnabar	<i>Tyria jacobaeae</i>	insect - moth	30/07/2006 - 12/09/2006	field record	Frequent Count of DAFOR	UKBAP; WYBAP	1,416
SE133146	Water Vole	<i>Arvicola terrestris</i>	terrestrial mammal	08/09/1999	field record		Sch5; UKBAP; WYBAP; Kirklees BAP	1,987
SE16481290	West European Hedgehog	<i>Erinaceus europaeus</i>	terrestrial mammal	2013	None	5 Count	UKBAP; WYBAP; Kirklees BAP	1,685
SE143153	Brown Hare	<i>Lepus europaeus</i>	terrestrial mammal	13/04/1982	field record	1 Count of Adult	UKBAP; WYBAP; Kirklees BAP	1,579
SE15731224	Brown Hare	<i>Lepus europaeus</i>	terrestrial mammal	23/08/2008	field record		UKBAP; WYBAP; Kirklees BAP	1,837
SE1614	Brown Hare	<i>Lepus europaeus</i>	terrestrial mammal	15/01/1992	field record	3 Count of Adult	UKBAP; WYBAP; Kirklees BAP	798
SE1614	Brown Hare	<i>Lepus europaeus</i>	terrestrial mammal	13/01/1993	field record	5 Count of Adult	UKBAP; WYBAP; Kirklees BAP	798
SE168143	Brown Hare	<i>Lepus europaeus</i>	terrestrial mammal	01/01/1998	field record	4 Count of Adult	UKBAP; WYBAP; Kirklees BAP	1,623
SE168143	Brown Hare	<i>Lepus europaeus</i>	terrestrial mammal	1999	field record	2 Count of Adult	UKBAP; WYBAP; Kirklees BAP	1,623
SE1354113648	Daubenton's Bat	<i>Myotis daubentoni</i>	terrestrial mammal	20/07/2009	Roost	1 Count	Sch5; WYBAP; Kirklees BAP	1,691
SE16461389	Daubenton's Bat	<i>Myotis daubentoni</i>	terrestrial mammal	14/08/2012	field record		Sch5; WYBAP; Kirklees BAP	1,261

Grid Ref	Common Name	Latin Name	Taxon Group	Date	Record Type	Abundance	Designation	Distance from site centroid (m)
SE1437614871	Noctule	<i>Nyctalus noctula</i>	terrestrial mammal	21/07/2010	field record		Sch5; UKBAP; WYBAP; Kirklees BAP	1,197
SE16461389	Noctule	<i>Nyctalus noctula</i>	terrestrial mammal	14/08/2012	field record		Sch5; UKBAP; WYBAP; Kirklees BAP	1,261
SE15291478	Pipistrellus	<i>Pipistrellus</i>	terrestrial mammal	08/08/2005	in building	1 Count of Adult	Sch5	785
SE1334613590	Pipistrelle	<i>Pipistrellus pipistrellus</i>	terrestrial mammal	02/06/2009	field record		Sch5; WYBAP; Kirklees BAP	1,894
SE13371356	Pipistrelle	<i>Pipistrellus pipistrellus</i>	terrestrial mammal	05/07/2012	field record		Sch5; WYBAP; Kirklees BAP	1,877
SE1364414587	Common Pipistrelle	<i>Pipistrellus pipistrellus</i>	terrestrial mammal	17/05/2000	Roost (maternity)	93 Count of Adult	Sch5; WYBAP; Kirklees BAP	1,659
SE1364414587	Common Pipistrelle	<i>Pipistrellus pipistrellus</i>	terrestrial mammal	17/05/2000	Roost	93 Count of Adult	Sch5; WYBAP; Kirklees BAP	1,659
SE1369014683	Pipistrelle	<i>Pipistrellus pipistrellus</i>	terrestrial mammal	01/04/2013	field record		Sch5; WYBAP; Kirklees BAP	1,653
SE1379113918	Pipistrelle	<i>Pipistrellus pipistrellus</i>	terrestrial mammal	01/06/2011	field record		Sch5; WYBAP; Kirklees BAP	1,408
SE1393313361	Pipistrelle	<i>Pipistrellus pipistrellus</i>	terrestrial mammal	2007	Roost		Sch5; WYBAP; Kirklees BAP	1,416
SE1437614871	Pipistrelle	<i>Pipistrellus pipistrellus</i>	terrestrial mammal	21/07/2010	field record		Sch5; WYBAP; Kirklees BAP	1,197
SE1460213513	Pipistrelle	<i>Pipistrellus pipistrellus</i>	terrestrial mammal	01/09/2011	field record	2 Count	Sch5; WYBAP; Kirklees BAP	770
SE146135	Pipistrelle	<i>Pipistrellus pipistrellus</i>	terrestrial mammal	14/09/2011	field record		Sch5; WYBAP; Kirklees BAP	780
SE146156	Common Pipistrelle	<i>Pipistrellus pipistrellus</i>	terrestrial mammal	09/07/2005	aural bat detector		Sch5; WYBAP; Kirklees BAP	1,707
SE1465912261	Pipistrelle	<i>Pipistrellus pipistrellus</i>	terrestrial mammal	2001	Roost		Sch5; WYBAP; Kirklees BAP	1,820

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SE1470512265	Pipistrelle	<i>Pipistrellus pipistrellus</i>	terrestrial mammal	10/06/2010	field record		Sch5; WYBAP; Kirklees BAP	1,803
SE15311581	Common Pipistrelle	<i>Pipistrellus pipistrellus</i>	terrestrial mammal	14/05/2004	field record		Sch5; WYBAP; Kirklees BAP	1,812
SE1558515800	Pipistrelle	<i>Pipistrellus pipistrellus</i>	terrestrial mammal	28/06/2009	field record		Sch5; WYBAP; Kirklees BAP	1,840
SE1602113967	Pipistrelle	<i>Pipistrellus pipistrellus</i>	terrestrial mammal	01/08/2011	field record	4 Count	Sch5; WYBAP; Kirklees BAP	819
SE1625714278	Pipistrelle	<i>Pipistrellus pipistrellus</i>	terrestrial mammal	12/06/2009	Roost	1 Count	Sch5; WYBAP; Kirklees BAP	1,090
SE1643313896	Pipistrelle	<i>Pipistrellus pipistrellus</i>	terrestrial mammal	04/06/2016	field record	1 Count	Sch5; WYBAP; Kirklees BAP	1,234
SE1643313896	Pipistrelle	<i>Pipistrellus pipistrellus</i>	terrestrial mammal	05/06/2016	field record	1 Count	Sch5; WYBAP; Kirklees BAP	1,234
SE16461389	Pipistrelle	<i>Pipistrellus pipistrellus</i>	terrestrial mammal	14/08/2012	field record		Sch5; WYBAP; Kirklees BAP	1,261
SE167152	Pipistrelle	<i>Pipistrellus pipistrellus</i>	terrestrial mammal	28/09/2015	field record		Sch5; WYBAP; Kirklees BAP	1,917
SE168150	Pipistrelle	<i>Pipistrellus pipistrellus</i>	terrestrial mammal	05/09/2016	field record	2 Count	Sch5; WYBAP; Kirklees BAP	1,883
SE168151	Pipistrelle	<i>Pipistrellus pipistrellus</i>	terrestrial mammal	12/09/2016	field record	4 Count	Sch5; WYBAP; Kirklees BAP	1,938
SE1693014529	Pipistrelle	<i>Pipistrellus pipistrellus</i>	terrestrial mammal	01/07/2013	field record		Sch5; WYBAP; Kirklees BAP	1,804
SE16461389	Soprano Pipistrelle	<i>Pipistrellus pygmaeus</i>	terrestrial mammal	14/08/2012	field record	1 Count	Sch5; UKBAP; WYBAP; Kirklees BAP	1,261
SE1393413362	Pipistrelle Bat species	<i>Pipistrellus sp.</i>	terrestrial mammal	09/07/2007	Roost (maternity)	not recorded Range	Sch5	1,414
SE1393413362	Pipistrelle Bat species	<i>Pipistrellus sp.</i>	terrestrial mammal	09/07/2007	Roost (maternity)		Sch5	1,414

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SE14021448	Pipistrelle Bat species	<i>Pipistrellus sp.</i>	terrestrial mammal	28/03/2004	Injured	1 Count of Adult	Sch5	1,271
SE15201530	Pipistrelle Bat species	<i>Pipistrellus sp.</i>	terrestrial mammal	20/07/2007	Roost		Sch5	1,299
SE1643313896	Brown Long-Eared Bat	<i>Plecotus auritus</i>	terrestrial mammal	04/06/2016	Roost	1 Count	Sch5; UKBAP; WYBAP; Kirklees BAP	1,234
SE1643313896	Brown Long-Eared Bat	<i>Plecotus auritus</i>	terrestrial mammal	05/06/2016	Roost	1 Count	Sch5; UKBAP; WYBAP; Kirklees BAP	1,234
SE1643313896	Brown Long-Eared Bat	<i>Plecotus auritus</i>	terrestrial mammal	05/09/2015	droppings		Sch5; UKBAP; WYBAP; Kirklees BAP	1,234
SE1643313896	Brown Long-Eared Bat	<i>Plecotus auritus</i>	terrestrial mammal	08/05/2016	Roost	1 Count	Sch5; UKBAP; WYBAP; Kirklees BAP	1,234
SE1338113206	Bats	<i>Vespertilionidae</i>	terrestrial mammal	1993	Roost (excluded)		Sch5	1,980
SE1347413714	Vesper Bat species	<i>Vespertilionidae</i>	terrestrial mammal	05/08/2002	Roost		Sch5	1,745
SE1383013900	Bats	<i>Vespertilionidae</i>	terrestrial mammal	1999	Roost (possible)		Sch5	1,370
SE13891465	Vesper Bat species	<i>Vespertilionidae</i>	terrestrial mammal	05/06/2003	Injured	6 Count of Adult	Sch5	1,459
SE14051450	Vesper Bat species	<i>Vespertilionidae</i>	terrestrial mammal	04/09/2005	Grounded	1 Count of Adult	Sch5	1,251
SE1456012300	Vesper Bat species	<i>Vespertilionidae</i>	terrestrial mammal	06/08/2004	Roost	1 Count of Adult	Sch5	1,815
SE1487015814	Vesper Bat species	<i>Vespertilionidae</i>	terrestrial mammal	17/07/2007	Roost		Sch5	1,843
SE1503415321	Vesper Bat species	<i>Vespertilionidae</i>	terrestrial mammal	07/02/2005	Roost		Sch5	1,331

Grid Ref	Common Name	Latin Name	Taxon Group	Date	Record Type	Abundance	Designation	Distance from site centroid (m)
SE1522015389	Bats	<i>Vespertilionidae</i>	terrestrial mammal	22/06/2008 - 23/06/2008	Roost		Sch5	1,388
SE1522215395	Bats	<i>Vespertilionidae</i>	terrestrial mammal	22/06/2008 - 23/06/2008	Roost		Sch5	1,395
SE1522515401	Bats	<i>Vespertilionidae</i>	terrestrial mammal	22/06/2008 - 23/06/2008	Roost		Sch5	1,401
SE1524615363	Bats	<i>Vespertilionidae</i>	terrestrial mammal	22/06/2008 - 23/06/2008	Roost		Sch5	1,363
SE15311581	Vesper Bat species	<i>Vespertilionidae</i>	terrestrial mammal	05/02/2004	field record		Sch5	1,812
SE1578915567	Bats	<i>Vespertilionidae</i>	terrestrial mammal	06/05/2004	field record		Sch5	1,673

Kirklees Local Wildlife Sites - Evaluation Against LWS Criteria

Site Name/ Code: Castle Hill	Location: Near Longley, south of Huddersfield
Date of Survey: 30/06/2015	Surveyor: A. Jukes, West Yorkshire Ecology
Grid Reference: SE152141	Site Area (Ha): 9.9
Natural Area: Coal Measures	Public Access: yes
NVC Communities: U2a, MG1, MG9, W23, W10	

Site Description

Castle Hill is a Local Nature Reserve which has a mixture of acid grassland and scrub on steep slopes with semi-improved neutral grassland and acid grassland on flatter areas to the east of the site and on the top of the hill. The surrounding land is mainly improved grassland and semi-improved neutral and acid grassland, some grazed by horses or cattle. There are stone walls and fences along the edges of the site and on field boundaries, and well-used tracks and public footpaths throughout the site. The centre of the Castle Hill is designated as a Local Geological Site.

Most of site is similar to U2a acid grassland with patches of W23 scrub. The grassland has frequent *Deschampsia flexuosa* and *Agrostis capillaris* and occasional species include *Festuca ovina*, *Festuca rubra*, *Galium saxatile*, *Poa annua*, *Lolium perenne*, *Polytrichum piliferum* and *Pseudoscleropodium purum*. Rarely occurring species include *Danthonia decumbens*, *Hypochaeris radicata*, *Pilosella officinarum*, *Rumex acetosella* and *Bryum capillare*, and there are some patches of locally abundant *Teucrium scorodonia* and *Vaccinium myrtillus*. W23 scrub has frequent *Ulex europaeus* with occasional *Rubus fruticosus* agg. and *Pteridium aquilinum*, with some areas with frequent *Betula pendula* and occasional *Crataegus monogyna*.

The centre of the site consists mainly of very short semi-improved acid grassland, with frequent *Lolium perenne*, *Agrostis capillaris*, *Festuca ovina*, *Festuca rubra* and *Trifolium repens* and occasional *Holcus lanatus*, *Galium saxatile*, *Bellis perennis*, *Poa annua*, *Polytrichum juniperinum* and *Ranunculus repens*.

Other areas mapped as semi-improved grassland to the north west of the site are not a good match with the NVC and have a mixture of acid species including *Deschampsia flexuosa*, *Galium saxatile* and *Vaccinium myrtillus* with species indicating improved or neutral grassland such as *Lolium perenne*, *Arrhenatherum elatius*, *Holcus lanatus* and *Cirsium arvense*.

There is an area of MG9 to the south west of the site with frequent *Holcus lanatus* and *Deschampsia cespitosa*, locally abundant *Cirsium arvense* and *Urtica dioica* and occasional *Alopecurus pratensis*, *Deschampsia flexuosa*, *Festuca* spp., *Holcus mollis*, *Juncus effusus* and *Ranunculus repens*.

The south east of the site has MG1 with scrub and scattered trees, with frequent *Arrhenatherum elatius*, *Chamerion angustifolium* and *Urtica dioica* and occasional *Dactylis glomerata*, *Heracleum sphondylium*, *Galium aparine*, *Holcus mollis*, *Hyacinthoides non-scripta* and *Pteridium aquilinum*. Scrub species include locally abundant *Rubus fruticosus* agg., frequent *Crataegus monogyna* and occasional *Sambucus nigra* and *Ulex europaeus*.

There is a small area of scrubby W10 woodland to the north east of the site with occasional *Quercus* spp. and frequent *Crataegus monogyna*, with abundant *Holcus mollis*, frequent *Rubus fruticosus* agg. and occasional *Hyacinthoides non-scripta* and *Dryopteris dilatata* in the ground flora.

Butterfly species recorded were Meadow Brown, Small Copper, Speckled Wood and Small Tortoiseshell. Rabbit, Mole and Magpie were also recorded.

Ecological Evaluation

As the site is a Local Nature Reserve it has already been designated under Criteria Van12. None of the grassland areas meet Gr Criteria, with acid grassland areas scoring a maximum of 4 points and neutral grassland scoring a maximum of 1 point, with thresholds of 8 for lowland acid grassland and 8 for neutral grassland.

The area within the boundary meets Criteria Mh2 for sites over 5ha with high structural diversity. It covers 9.9ha and habitats present are unimproved lowland dry acid grassland, tall coarse grassland and scattered scrub, scrub communities of more than one species and secondary semi-natural woodland, which score 10 in total with the threshold being 7. Most of these habitats are included in the Kirklees BAP under semi-natural grassland, oak woodland and scrubland.

**West Yorkshire Local Sites Partnership
Local Wildlife Site**

Site name: Castle Hill

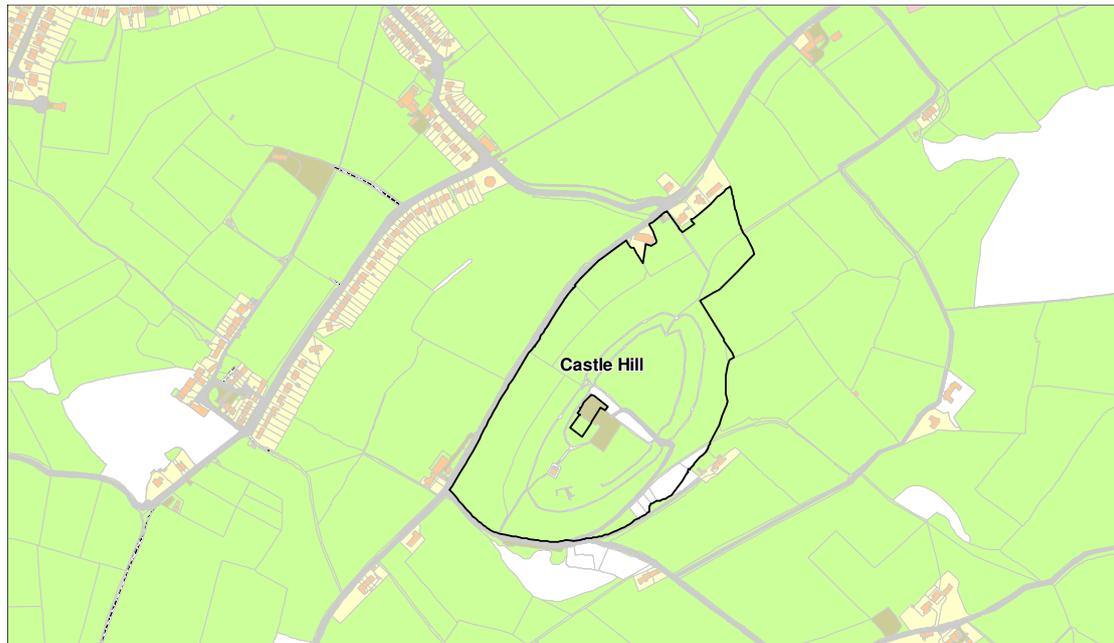
Planning authority: Kirklees

Grid reference: SE152141

Date of review: 30/06/2015

Date approved by LS Partnership: 21/01/2016

Site boundary:



Qualifying criteria:

Vanl2 - Local Nature Reserve

Mh2 - Mixed habitats

Criteria version: 21/01/16

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