

**PHASE 1 HABITAT SURVEY
REPORT
at
Land at Church Lane
Hoylandswaine
Penistone
South Yorkshire
S36 7JQ**

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1. Introduction

1.1 Purpose of the Report

- 1.1.1 A report is required for **Land at Church Lane, Hoylandswaine** to assess the ecological value of the site by documenting the habitat types present and the site's potential for supporting rare or protected species.

1.2 Terms of Reference

- 1.2.1 I am instructed by **Barratt Homes and David Wilson Homes** to visit the site and prepare my findings in a report.
- 1.2.2 For this purpose I have been supplied with a site map and brief details of the proposal.

1.3 Scope of the Report

- 1.3.1 This report is compiled in accordance with the Joint Nature Conservation Committee's (JNCC's) *Handbook for Phase 1 habitat survey - A technique for environmental audit* (Revised reprint 2010).

1.4 Site Description

- 1.4.1 **Land at Church Lane, Hoylandswaine** is situated 2.4km northeast of Penistone town centre, at grid reference: SE285052.
- 1.4.2 The site is located on the north western edge of the rural village of Hoylandswaine with agricultural grassland to the west, north and south. An area of woodland lies to the east beyond the village.

1.5 Development Proposal

- 1.5.1 A development of 66 residential dwellings is proposed for this 3.39ha. site. The development will also require the provision of a balancing pond which will lie 200m from the northeast corner of the site.

2. Desktop Study

2.1 Methodology

- 2.1.1 A desktop study has been undertaken in order to obtain any relevant ecological records that may be present within a 1km radius of the site. This includes protected and notable species records, as well as nature conservation designations.
- 2.1.2 The Barnsley Biological Records Centre has been commissioned to provide the historical records for protected and notable species within a 1km radius from the site.
- 2.1.3 The National Biodiversity Network (NBN) Gateway website was used to obtain any protected species records that were recorded within the last 10 years, relating to this site. The NBN gateway website holds ecological records collected across the UK from a variety of sources and is available for public use. The website operates by dividing the country into a series of 10km square grids, and so the records held for the 10km grid containing the survey site (Grid SE20) has been reviewed.
- 2.1.4 The Multi-Agency Geographic Information for the Countryside (MAGIC) website was used to locate any designated sites, such as; Local Nature Reserves (LNR), Special Area of Conservation (SAC) or Sites of Special Scientific Interest (SSSI), that may be present within 1km of the survey site.

2.2 Results

- 2.2.1 The faunal records supplied by the Barnsley Biological Records Centre have been summarised in the table below. Flora records can be found at **Appendix 4**

Table 1: Summary of faunal data from the Barnsley Biological Records Centre

Group	Common Name	Scientific Name	No of Records	Most Recent Record
bird	Goshawk	<i>Accipiter gentilis</i>	1	1989
	Sparrowhawk	<i>Accipiter nisus</i>	6	2012
	Common Sandpiper	<i>Actitis hypoleucos</i>	1	1996
	Skylark	<i>Alauda arvensis</i>	6	2012
	Kingfisher	<i>Alcedo atthis</i>	1	1996
	Teal	<i>Anas crecca</i>	19	2010
	Wigeon	<i>Anas penelope</i>	3	2010
	Mallard	<i>Anas platyrhynchos</i>	6	2011
	Meadow Pipit	<i>Anthus pratensis</i>	3	2010
	Swift	<i>Apus apus</i>	1	1993
	Short-Eared Owl	<i>Asio flammeus</i>	1	1989
	Little Owl	<i>Athene noctua</i>	6	2010
	Pochard	<i>Aythya ferina</i>	22	1996
	Tufted Duck	<i>Aythya fuligula</i>	5	1997

bird	Canada Goose	<i>Branta canadensis</i>	5	2011
	Goldeneye	<i>Bucephala clangula</i>	2	1994
	Buzzard	<i>Buteo buteo</i>	3	2010
	Goldfinch	<i>Carduelis carduelis</i>	1	1994
	Redpoll	<i>Carduelis flammea</i>	2	1989
	Twite	<i>Carduelis flavirostris</i>	2	1989
	Siskin	<i>Carduelis spinus</i>	3	1997
	Treecreeper	<i>Certhia familiaris</i>	1	1997
	Little Ringed Plover	<i>Charadrius dubius</i>	1	1990
	Hawfinch	<i>Coccothraustes coccothraustes</i>	1	1989
	Stock Dove	<i>Columba oenas</i>	3	2011
	Rook	<i>Corvus frugilegus</i>	6	2012
	Jackdaw	<i>Corvus monedula</i>	4	2011
	Quail	<i>Coturnix coturnix</i>	1	1989
	Blue Tit	<i>Cyanistes caeruleus</i>	1	2011
	House Martin	<i>Delichon urbica</i>	2	1996
	Great Spotted Woodpecker	<i>Dendrocopos major</i>	3	2010
	Lesser Spotted Woodpecker	<i>Dendrocopos minor</i>	2	1989
	Yellowhammer	<i>Emberiza citrinella</i>	5	2012
	Merlin	<i>Falco columbarius</i>	2	1989
	Peregrine	<i>Falco peregrinus</i>	2	2012
	Hobby	<i>Falco subbuteo</i>	1	2012
	Kestrel	<i>Falco tinnunculus</i>	14	2012
	Pied Flycatcher	<i>Ficedula hypoleuca</i>	1	1988
	Chaffinch	<i>Fringilla coelebs</i>	1	1996
	Coot	<i>Fulica atra</i>	3	1993
	Snipe	<i>Gallinago gallinago</i>	1	1989
	Moorhen	<i>Gallinula chloropus</i>	5	2011
	Jay	<i>Garrulus glandarius</i>	1	2010
	Swallow	<i>Hirundo rustica</i>	5	1996
	Red Grouse	<i>Lagopus lagopus</i>	5	2011
	Common Gull	<i>Larus canus</i>	3	2011
	Lesser Black-Backed Gull	<i>Larus fuscus</i>	1	2012
	Black-headed Gull	<i>Larus ridibundus</i>	5	2011
	Crossbill	<i>Loxia curvirostra</i>	1	1989
	Corn Bunting	<i>Miliaria calandra</i>	1	1989
	Pied Wagtail	<i>Motacilla alba subsp. yarrellii</i>	4	2010
	Grey Wagtail	<i>Motacilla cinerea</i>	1	2010
	Spotted Flycatcher	<i>Muscicapa striata</i>	1	2005
	Curlew	<i>Numenius arquata</i>	8	2012
	Wheatear	<i>Oenanthe oenanthe</i>	3	2011
	Coal Tit	<i>Parus ater</i>	3	2011
	Blue Tit	<i>Parus caeruleus</i>	2	2011
	Willow Tit	<i>Parus montanus</i>	3	2010
	House Sparrow	<i>Passer domesticus</i>	2	1996
bird	Tree Sparrow	<i>Passer montanus</i>	6	2002

	Grey Partridge	<i>Perdix perdix</i>	2	2010
	Coal Tit	<i>Parus ater</i>	1	2011
	Chiffchaff	<i>Phylloscopus collybita</i>	2	1996
	Wood Warbler	<i>Phylloscopus sibilatrix</i>	1	1989
	Willow Warbler	<i>Phylloscopus trochilus</i>	3	1996
	Magpie	<i>Pica pica</i>	3	2011
	Golden Plover	<i>Pluvialis apricaria</i>	2	2010
	Great Crested Grebe	<i>Podiceps cristatus</i>	22	1993
	Dunnock	<i>Prunella modularis</i>	2	1996
	Bullfinch	<i>Pyrrhula pyrrhula</i>	1	2010
	Goldcrest	<i>Regulus regulus</i>	3	2010
	Sand Martin	<i>Riparia riparia</i>	2	1989
	Woodcock	<i>Scolopax rusticola</i>	1	1988
	Turtle Dove	<i>Streptopelia turtur</i>	1	1989
	Starling	<i>Sturnus vulgaris</i>	5	2012
	Lesser Whitethroat	<i>Sylvia curruca</i>	2	2001
	Little Grebe	<i>Tachybaptus ruficollis</i>	3	1989
	Redshank	<i>Tringa totanus</i>	2	1996
	Fieldfare	<i>Turdus pilaris</i>	8	2010
	Ring Ouzel	<i>Turdus torquatus</i>	1	1988
	Mistle Thrush	<i>Turdus viscivorus</i>	5	2011
	Lapwing	<i>Vanellus vanellus</i>	10	2012
crustacean	Freshwater Crayfish	<i>Austroptamobius pallipes</i>	9	2012
	Signal Crayfish	<i>Pacifastacus leniusculus</i>	8	2012
insect - butterfly	Small Tortoiseshell	<i>Aglais urticae</i>	1	2011
	Orange Tip	<i>Anthocharis cardamines</i>	1	2006
	Meadow Brown	<i>Maniola jurtina</i>	3	2011
	Large White	<i>Pieris brassicae</i>	2	2010
	Small White	<i>Pieris rapae</i>	4	2011
	Red Admiral	<i>Vanessa atalanta</i>	1	2011
insect - caddis fly	Potamophylax latipennis	<i>Potamophylax latipennis</i>	1	2006
	Tinodes waeneri	<i>Tinodes waeneri</i>	1	2006
insect - hymenopteran	Agrypon flaveolatum	<i>Agrypon flaveolatum</i>	1	1979
	Netelia (Bessobates) cristata	<i>Netelia (Bessobates) cristata</i>	1	198
insect - moth	March Moth	<i>Alsophila aescularia</i>	1	1980
	Large Yellow Underwing	<i>Noctua promuba</i>	1	2011
insect - true fly (Diptera)	Pedicia schummeli	<i>Pedicia schummeli</i>	1	1998
mollusc	Acanthinula aculeata	<i>Acanthinula aculeata</i>	1	1975
	Aegopinella pura	<i>Aegopinella pura</i>	1	1975
	Arianta arbustorum	<i>Arianta arbustorum</i>	1	1975
	Carychium minimum seg.	<i>Carychium minimum seg.</i>	1	1975
	Carychium tridentatum	<i>Carychium tridentatum</i>	1	1975
terrestrial mammal	Wood Mouse	<i>Apodemus sylvaticus</i>	1	1982
	Roe Deer	<i>Capreolus capreolus</i>	1	2012
	Bats	<i>Chiroptera</i>	2	2001
	Bank Vole	<i>Clethrionomys glareolus</i>	3	1982

	Hedgehog	<i>Erinaceus europaeus</i>	8	1987
	Brown Hare	<i>Lepus europaeus</i>	54	2004
	Badger	<i>Meles meles</i>	7	2012
	Field Vole	<i>Microtus agrestis</i>	1	1980
	House Mouse	<i>Mus musculus</i>	2	1996
	Stoat	<i>Mustela erminea</i>	1	1987
	Weasel	<i>Mustela nivalis</i>	1	1985
	Whiskered Bat	<i>Myotis mystacinus</i>	1	2000
	Pipistrelle	<i>Pipistrellus pipistrellus</i>	1	2008
	Brown Long-Eared Bat	<i>Plecotus auritus</i>	1	1997
	Brown Rat	<i>Rattus norvegicus</i>	1	1982
	Grey Squirrel	<i>Sciurus carolinensis</i>	40	1984
	Mole	<i>Talpa europaea</i>	4	2012

2.2.2 NBN Gateway records obtained for this site can be seen in the table below.

Table 2: Summary of protected and notable species recorded within the 10km grid square SE20

Group	Common Name	Scientific Name	No of Records	Most Recent Record
amphibian	Common Toad	<i>Bufo bufo</i>	3	2012
	Palmate Newt	<i>Lissotriton helveticus</i>	1	2008
	Smooth Newt	<i>Lissotriton vulgaris</i>	5	2012
	Common Frog	<i>Rana temporaria</i>	2	2012
	Great Crested Newt	<i>Triturus cristatus</i>	4	2012
bird	Common Kingfisher	<i>Alcedo atthis</i>	3	2013
	Meadow Pipit	<i>Anthus pratensis</i>	33	2013
	Tree Pipit	<i>Anthus trivialis</i>	4	2009
	Little Owl	<i>Athene noctua</i>	3	2010
	Bohemian Waxwing	<i>Bombycilla garrulus</i>	1	2009
	Barnacle Goose	<i>Branta leucopsis</i>	9	2011
	Dunlin	<i>Calidris alpina</i>	1	2009
	Lesser Redpoll	<i>Carduelis cabaret</i>	2	2012
	Linnet	<i>Carduelis cannabina</i>	43	2013
	Goldfinch	<i>Carduelis carduelis</i>	94	2013
	Greenfinch	<i>Carduelis chloris</i>	83	2012
	Common Redpoll	<i>Carduelis flammea</i>	5	2012
	Twite	<i>Carduelis flavirostris</i>	1	2008
	Siskin	<i>Carduelis spinus</i>	29	2013
	Treecreeper	<i>Certhia familiaris</i>	18	2013
	Little Plover	<i>Charadrius dubius</i>	3	2011
	Ringed Plover	<i>Charadrius hiaticula</i>	2	2010
	Black Tern	<i>Chlidonias niger</i>	1	2009
	White-throated Dipper	<i>Cinclus cinclus</i>	7	2011
	Cuckoo	<i>Cuculus canorus</i>	9	2011
	Blue Tit	<i>Cyanistes caeruleus</i>	68	2012
	Whooper Swan	<i>Cygnus cygnus</i>	1	2013
	House Martin	<i>Delichon urbicum</i>	17	2012

	Great Spotted Woodpecker	<i>Dendrocopos major</i>	45	2013
	Lesser Spotted Woodpecker	<i>Dendrocopos minor</i>	6	2010
	Yellowhammer	<i>Emberiza citrinella</i>	52	2013
	Reed Bunting	<i>Emberiza schoeniclus</i>	15	2012
	Robin	<i>Erithacus rubecula</i>	181	2013
	Kestrel	<i>Falco tinnunculus</i>	1	2009
	Swallow	<i>Hirundo rustica</i>	55	2013
	Common Grasshopper Warbler	<i>Locustella naevia</i>	2	2009
	Crossbill	<i>Loxia curvirostra</i>	8	2011
	Common Scoter	<i>Melanitta nigra</i>	2	2009
	White/Pied Wagtail	<i>Motacilla alba</i>	29	2013
	Pied Wagtail	<i>Motacilla alba subsp. yarrellii</i>	13	2013
	Grey Wagtail	<i>Motacilla cinerea</i>	23	2012
	Yellow Wagtail	<i>Motacilla flava</i>	1	2010
	Spotted Flycatcher	<i>Muscicapa striata</i>	13	2011
	Curlew	<i>Numenius arquata</i>	58	2013
	Wheatear	<i>Oenanthe oenanthe</i>	9	2011
	Great Tit	<i>Parus major</i>	133	2012
	House Sparrow	<i>Passer domesticus</i>	171	2013
	Tree Sparrow	<i>Passer montanus</i>	44	2013
	Grey Partridge	<i>Perdix perdix</i>	29	2013
	Coal Tit	<i>Pariparus ater</i>	112	2012
	Redstart	<i>Phoenicurus phoenicurus</i>	5	2011
	Wood Warbler	<i>Phylloscopus sibilatrix</i>	2	2009
	Green Woodpecker	<i>Picus viridis</i>	5	2011
	Snow Bunting	<i>Plectrophenax nivalis</i>	1	2011
	Willow Tit	<i>Poecile montanus</i>	27	2013
	Marsh Tit	<i>Poecile palustris</i>	5	2009
	Dunnock	<i>Prunella modularis</i>	137	2013
	Goldcrest	<i>Regulus regulus</i>	30	2012
	Sand Martin	<i>Riparia riparia</i>	1	2007
	Whinchat	<i>Saxicola rubetra</i>	3	2009
	Stonechat	<i>Saxicola torquata</i>	4	2011
	Nuthatch	<i>Sitta europaea</i>	49	2013
	Arctic Tern	<i>Sterna paradisaea</i>	1	2007
	Tawny Owl	<i>Strix aluco</i>	1	2009
	Winter Wren	<i>Troglodytes troglodytes</i>	77	2012
	Ring Ouzel	<i>Turdus torquatus</i>	2	<2009
	Barn Owl	<i>Tyto alba</i>	2	2009
	Lapwing	<i>Vanellus vanellus</i>	131	2013
bony fish	Brown Trout	<i>Salmo trutta</i>	23	2012
	Grayling	<i>Thymallus thymallus</i>	1	2012
crustacean	White-clawed Crayfish	<i>Austropotamobius pallipes</i>	17	2011
insect - butterfly	Small Heath	<i>Coenonympha pamphillus</i>	1	2012
	Wall	<i>Lasiommata megera</i>	3	2012
reptile	Adder	<i>Vipera berus</i>	2	2009

terrestrial mammal	Water Vole	<i>Arvicola amphibius</i>	1	2007
	Roe Deer	<i>Capreolus capreolus</i>	1	2012
	Hedgehog	<i>Erinaceus europaeus</i>	15	2012
	Brown Hare	<i>Lepus europaeus</i>	16	2013
	Otter	<i>Lutra lutra</i>	5	2005
	Weasel	<i>Mustela nivalis</i>	3	2012
	Daubenton's Bat	<i>Myotis daubentonii</i>	2	2011
	Noctule	<i>Nyctalus noctula</i>	15	2011
	Pipistrelle Species	<i>Pipistrellus sp.</i>	8	2009
	Soprano Pipistrelle	<i>Pipistrellus pygmaeus</i>	4	2010
	Common Shrew	<i>Sorex araneus</i>	3	2012

2.2.3 Nature Conservation Designations: This search revealed that there are no statutory conservation designations within 1km of the site. Wool Greaves Meadow, a candidate site for designation as a Barnsley Natural Heritage Site is located 950m northeast of the survey site.

There are five areas of categorised woodland within 1km of the survey site. The nearest Cat Hill Wood is 670m to the west is recorded as Ancient Replanted Woodland, UK Biodiversity Action Plan Priority Habitat Deciduous Woodland and is also registered on the National Inventory of Woodland and Trees.

3. Site Assessment

3.1 Survey Conditions

- 3.1.1 The site was surveyed on 10th December 2013 by David Ryder.
- 3.1.2 The survey was conducted during the sub-optimal time for botanical surveys. Therefore, many of the plant species encountered were either not in flower/leaf, dead or with their structure damaged by frost.
- 3.1.3 Plant species that may be present in the summer months are often not visible in the winter. If a more accurate and comprehensive floral record is required, the optimum time to conduct botanical surveys would be between the months of April and September.

3.2 Methodology

- 3.2.1 A thorough site assessment was undertaken; following the guidelines set out in the JNCC's *Handbook for Phase 1 habitat surveys*.
- 3.2.2 The entire site was walked over by an experienced consultant who mapped and described each habitat type that was present. The dominant floral species of each habitat was noted as well as any faunal species that were encountered.
- 3.2.3 Whilst conducting the site walk over, any features that may be of value to or have the potential to support protected species were noted, and photographic evidence taken (please refer to **Appendix 2**). Such protected species include, but are not limited to; Badgers, Bats, Dormouse, Great Crested Newts, Nesting birds, Otter, Reptiles, Water Vole, White-Clawed Crayfish (please see **Appendix 5**).
- 3.2.4 All surveys are conducted by experienced consultants using the following equipment to ensure an accurate assessment of each survey site; a printed site map, coloured pencil crayons, camera, 1 million candlelight torch, bat detector, binoculars, ladders, compass and floral and faunal identification guides.

3.3 Habitat Types Present

- 3.3.1 A Phase 1 Habitat map showing all habitat types present can be found at **Appendix 1**.
- 3.3.2 The following habitat types are present at **Land at Church Lane Hoylandswaine** (in alphabetical order):
- Buildings
 - Hedgerows (Defunct)

- Hedgerows (Intact)
- Improved Grassland
- Scattered Trees

3.3.3 **Buildings:** The centre of the site has a cluster of equestrian buildings of wood and tin sheet construction in declining condition.

3.3.4 **Hedgerows (Defunct):** The site is contained within a hedge boundary the northern western boundary was in poor condition overgrown with significant breaks and the remnants of a derelict dry stone wall to the base. The species present were: Hawthorn (*Crateagus monogyna*), Holly (*Ilex aquifolium*) and Dog Rose (*Rosa canina*).

3.3.5 **Hedgerows (Intact):** The northern, southern, and western boundaries as well the central dividing field boundary were mature well maintained hedgerows. The species present were: Elder (*Sambucus nigra*), Holly (*Ilex aquifolium*), Hawthorn (*Crateagus monogyna*) and Sycamore (*Acer pseudoplatanus*) with other scattered boundary trees.

3.3.6 **Improved Grassland:** The site is dominated by grassland. The northern section is returning to grassland after being harvested for arable crops and displays common agricultural varieties. The southern half of the site is segmented by electric fences and has a rotational grazing by horses. The species present were: Red Fescue (*Festuca rubra*), Perennial Ryegrass (*Lolium perenne*), Creeping Softgrass (*Holcus mollis*), White Clover (*Trifolium repens*), Daisy (*Bellis perennis*), Dandelion (*Taraxacum officinale*). The northeast corner of the site also displayed Soft Rush (*Juncus effusus*) and Pendulous Sedge (*Carex pendula*)

3.3.7 **Scattered Trees:** The site featured a number of scattered trees within the hedgerows. The species noted were: Ash (*Fraxinus excelsior*), Silver Birch (*Betula pendula*), Oak (*Quercus robur*), Sycamore (*Acer pseudoplatanus*) and Cypress (*Cupressus sp.*)

3.4 Target notes

3.4.1 **Target Note 1:** Oak tree with limb damage

3.4.2 **Target Note 2:** Ash tree with main stem cavity (on adjacent land)

3.4.3 **Target Note 3:** Area of agricultural waste and spoil deposits

3.5 Fauna Species Encountered

3.5.1 The following species were either seen or heard during the site investigation; Blackbird (*Turdus merula*), Magpie (*Pica pica*), Jackdaw (*Corvus monedula*), House Sparrow (*Passer domesticus*), Grey Squirrel (*Sciurus carolinensis*), Rabbit (*Oryctolagus cuniculus*) and Mole (*Talpa europaea*) activity.

3.6 Potential for Protected Species

- 3.6.1 Amphibians: The site does not offer the required habitat to sustain amphibian species although such species may pass through the site.
- 3.6.2 Badger: There was no evidence of badgers identified during the site investigation and no suitable land for badgers to excavate a sett.
- 3.6.3 Barn Owl: The buildings on site were not suitable to support roosting barn owls and the proximity to the village makes it unlikely that barn owls will hunt within the site boundary.
- 3.6.4 Bats: There are two trees on site which include features which may support roosting bats. The buildings on-site are unlikely to support roosting bats.
- 3.6.5 Dormouse: The site did not contain the floral species required to support dormice.
- 3.6.6 Nesting Birds: The trees and hedgerows offer nesting opportunities for a number of bird species during the breeding season.
- 3.6.7 Otter: The site does not offer any aquatic or wetland habitat that would support otters.
- 3.6.8 Reptiles: The site does not offer the diverse range of habitats that would be required to support reptiles.
- 3.6.9 Water Vole: The site does not offer any aquatic or wetland habitat that would support water voles.
- 3.6.10 White Clawed Crayfish: The site does not offer any aquatic or wetland habitat that would support crayfish.

*The absence of any signs of or features considered valuable for supporting protected species, can **not** be considered evidence that these species are absent from a site, or that these species will not occupy the site in the future. It must therefore always be recommended that work be conducted with care and vigilance. Should any protected species be encountered during work (please see **Appendix 6**), work stop immediately and JCA or Natural England contacted.*

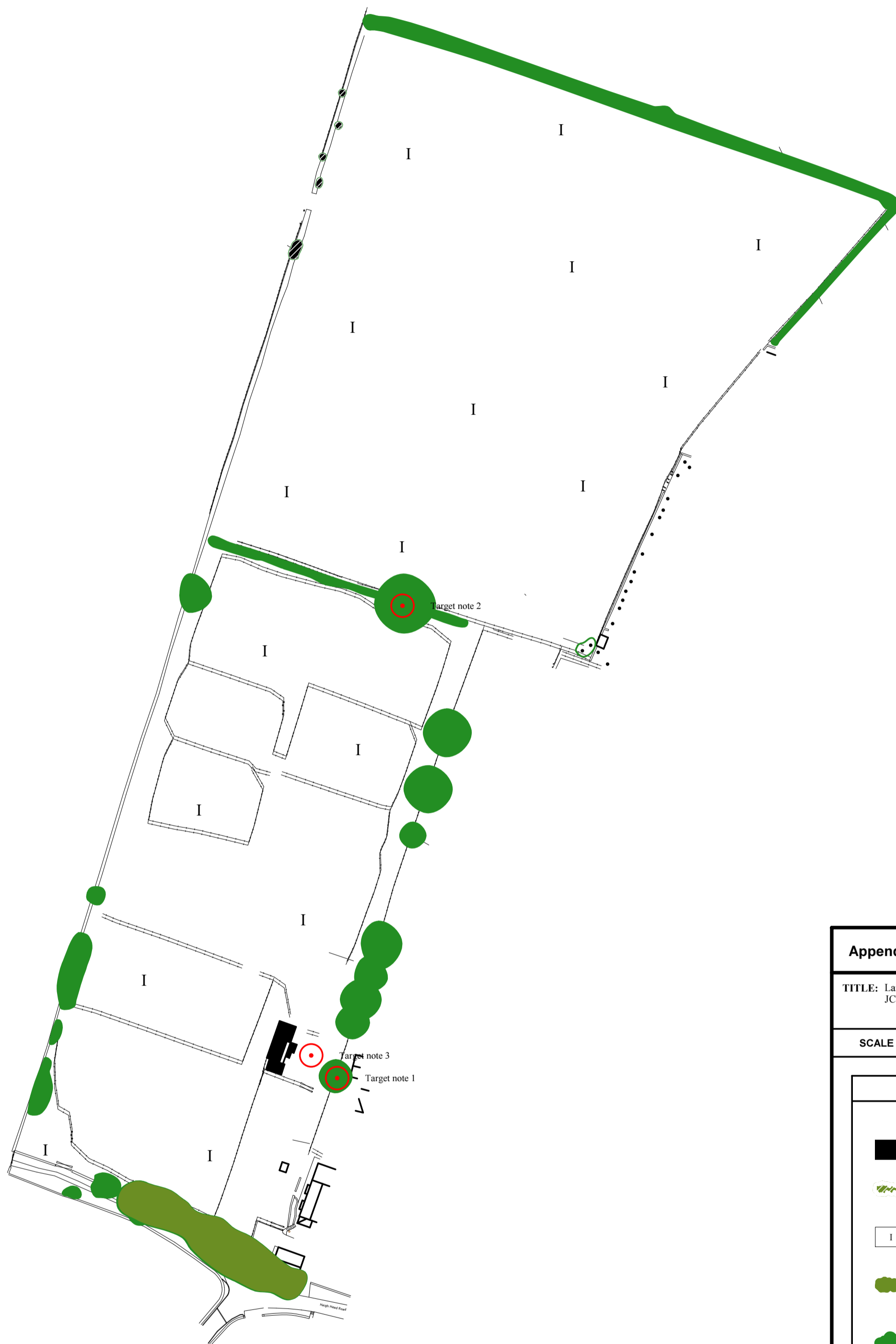
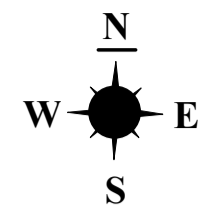
3.7 Invasive Plant Species

- 3.7.1 No invasive plant species were found seen at this site whilst conducting the site investigation.

4. Conclusions and Recommendations

- 4.1.1 After conducting a thorough site investigation and a detailed Desktop Study, we consider **Land at Church Lane** to contain habitats of mostly low ecological value. The hedgerows and trees have a moderate ecological value.
- 4.1.2 No nature conservation designations will be impacted upon by proposed development.
- 4.1.3 The Desktop Study did not identify any protected or notable species in proximity to the site.
- 4.1.4 The proposed balancing pond will create aquatic habitat where there is currently only improved grassland. The report highlighted the current absence of aquatic habitat, the inclusion of which would provide a starting point for numerous species of plant life which would then support invertebrate and amphibian species. Once the flora and invertebrates are present this will attract birds, mammals and larger invertebrates. Once wading birds are present there will be the opportunity for fish and larger crustacean eggs to be spread from other sites, which are carried on the feathers of many bird species especially ducks. Such a pond only requires a basic introduction of native aquatic flora ideally from a supplier who only supplies native species, therefore there is much less risk of importing non-native species. Usually it is recommended that a pond develop its own ecosystem from its source, however since this balancing pond has no natural source some native plants should be introduced. The planting should be concentrated to the west bank of the pond. Nature and the elements will dictate which species are suitable to the site. Recommended plant species which are commonly available are Arrowhead (*Sagittaria sagittifolia*), Bog bean (*Menyanthes trifoliata*), Forget-me-not (*Myosotis scorpioides*), Gypsywort (*Lycopus europaeus*), Greater Spearwort (*Ranunculus lingua*), Marsh Marigold (*Caltha palustris*), Purple Loosestrife (*Lythrum salicaria*), Reed Sweet Grass (*Glyceria maxima*), Water Mint (*Mentha aquatica*), and Water Violet (*Hottonia palustris*). Only 4 or 5 species should be selected from this list with only 2 specimens from each species.
- 4.1.5 The trees identified as target notes 1 and 2 have the potential to support roosting bats. An aerial inspection or emergence surveys should be undertaken before any measures are taken to manage or remove these trees.
- 4.1.6 Any permitted works to the trees or hedgerow on this site should be undertaken between September and February outside of the bird breeding season. Any activity scheduled between March and August must be immediately preceded by a nesting bird survey and is reliant on a negative result in order to be able to proceed.
- 4.1.7 *JCA Ltd. can provide these and other ecological surveys if required, please do not hesitate to contact us for further information.*

Appendices









Appendix 1: Phase 1 Habitat Map

TITLE: Land Off Church Lane, Hoylandswaine
JCA Ref: 11385a

SCALE : 1:1000

PAPER SIZE : A2

KEY

-  Buildings
-  Defunct hedge
-  Improved grassland
-  Intact hedge
-  Scattered trees
-  Target note



Appendix 2: Photographic Evidence

Photo 1: View across northern hedgerow boundary



Photo 2: View across mid field hedgerow towards the east



Photo 3: Target Note 3: Area to east of equestrian buildings with waste and spoil heaps



Photo 4: Equestrian buildings



Photo 5: Improved grazing paddock with view of east boundary



Photo 6: Target Note 3 Oak tree with limb damage



Photo 7: Target Note 2 Ash tree with main stem cavity.



Appendix 3: Site Map

Figure 1: Google Maps image of Land off Church Lane, showing the survey site in relation to the surrounding landscape.



Appendix 4: Floral Data Records

Table 3: Summary of floral data from the Barnsley Biological Records Centre

Group	Common Name	Scientific Name	No of Records	Most Recent Record
conifer	Scots Pine	<i>Pinus sylvestris</i>	2	2010
fern	Lady Fern	<i>Athyrium filix-femina</i>	1	2010
	Broad Buckler-Fern	<i>Dryopteris dilatata</i>	3	2010
	Common Male Fern	<i>Dryopteris filix-mas</i>	2	2010
	Bracken	<i>Pteridium aquilinum</i>	5	2010
flowering plant	Field Maple	<i>Acer campestre</i>	1	2008
	Sycamore	<i>Acer pseudoplatanus</i>	6	2010
	Yarrow	<i>Achillea millefolium</i>	2	2010
	Sneezewort	<i>Achillea ptarmica</i>	1	2010
	Ground-Elder	<i>Aegopodium podagraria</i>	1	2008
	Horse-Chestnut	<i>Aesculus hippocastanum</i>	2	2010
	Common Bent	<i>Agrostis capillaris</i>	2	2010
	Creeping Bent	<i>Agrostis stolonifera</i>	3	2010
	Early Hair-Grass	<i>Aira praecox</i>	1	2008
	Bugle	<i>Ajuga reptans</i>	1	2008
	Garlic Mustard	<i>Alliaria petiolata</i>	1	2008
	Alder	<i>Alnus glutinosa</i>	2	2010
	Marsh Foxtail	<i>Alopecurus geniculatus</i>	1	2008
	Meadow Foxtail	<i>Alopecurus pratensis</i>	1	2008
	Barren Brome	<i>Anisantha sterilis</i>	1	2008
	Sweet Vernal Grass	<i>Anthoxanthum odoratum</i>	3	2010
	Cow Parsley	<i>Anthriscus sylvestris</i>	4	2010
	Lesser Burdock	<i>Arctium minus</i>	1	2008
	False Oat-Grass	<i>Arrhenatherum elatius</i>	2	2010
	Mugwort	<i>Artemisia vulgaris</i>	1	2008
	Lords-And-Ladies	<i>Arum maculatum</i>	3	2012
	Common Orache	<i>Atriplex patula</i>	1	2008
	Atriplex prostrata agg.	<i>Atriplex prostrata agg.</i>	1	2008
	Daisy	<i>Bellis perennis</i>	1	2008
	Silver Birch	<i>Betula pendula</i>	2	2010
	Rape	<i>Brassica napus</i>	1	2008
	Hairy Brome	<i>Bromopsis ramosa</i>	1	2008
	Soft-Brome	<i>Bromus hordeaceus</i>	1	2008
	Butterfly-Bush	<i>Buddleja davidii</i>	1	2008
	Large Bindweed	<i>Calystegia silvatica</i>	1	2008
	Harebell	<i>Campanula rotundifolia</i>	2	2010
	Shepherd's-Purse	<i>Capsella bursa-pastoris</i>	1	2008
	Hairy Bitter-Cress	<i>Cardamine hirsuta</i>	4	2008
	Cuckooflower	<i>Cardamine pratensis</i>	1	2008
	Glaucous Sedge	<i>Carex flacca</i>	1	2010

flowering plant	Common Sedge	<i>Carex nigra</i>	1	2010
	Oval Sedge	<i>Carex ovalis</i>	1	2010
	Sweet Chestnut	<i>Castanea sativa</i>	1	2008
	Common Knapweed	<i>Centaurea nigra</i>	3	2010
	Red Valerian	<i>Centranthus ruber</i>	1	2008
	Common Mouse-Ear	<i>Cerastium fontanum</i>	3	2010
	Sticky Mouse-Ear	<i>Cerastium glomeratum</i>	1	2008
	Snow-In-Summer	<i>Cerastium tomentosum</i>	1	2008
	Rough Chervil	<i>Chaerophyllum temulum</i>	1	2008
	Rosebay Willowherb	<i>Chamerion angustifolium</i>	1	2008
	Fat Hen	<i>Chenopodium album</i> agg.	1	2008
	Enchanter's-Nightshade	<i>Circaea lutetiana</i>	1	2010
	Creeping Thistle	<i>Cirsium arvense</i>	2	2010
	Marsh Thistle	<i>Cirsium palustre</i>	1	2010
	Spear Thistle	<i>Cirsium vulgare</i>	1	2008
	Traveller's Joy	<i>Clematis vitalba</i>	1	2008
	Hazel	<i>Corylus avellana</i>	4	2010
	Hawthorn	<i>Crataegus monogyna</i>	7	2010
	Smooth Hawk's-Beard	<i>Crepis capillaris</i>	1	2008
	Crested Dog's-Tail	<i>Cynosurus cristatus</i>	3	2010
	Cock's-Foot	<i>Dactylis glomerata</i>	4	2010
	Tufted Hair-Grass	<i>Deschampsia caespitosa</i>	5	2012
	Wavy Hair-Grass	<i>Deschampsia flexuosa</i>	1	2008
	Foxglove	<i>Digitalis purpurea</i>	3	2010
	Common Couch	<i>Elytrigia repens</i>	1	2008
	American Willowherb	<i>Epilobium ciliatum</i>	1	2008
	Great Willowherb	<i>Epilobium hirsutum</i>	1	2008
	Broad-Leaved Willowherb	<i>Epilobium montanum</i>	1	2008
	Sun Spurge	<i>Euphorbia helioscopia</i>	1	2008
	Petty Spurge	<i>Euphorbia peplus</i>	1	2008
	Beech	<i>Fagus sylvatica</i>	3	2010
	Giant Fescue	<i>Festuca gigantea</i>	1	2010
	Meadow Fescue	<i>Festuca pratensis</i>	1	2008
	Red Fescue	<i>Festuca rubra</i> agg.	3	2010
	Ash	<i>Fraxinus excelsior</i>	7	2010
	Common Fumitory	<i>Fumaria officinalis</i>	1	2008
	Common Hemp-Nettle agg.	<i>Galeopsis tetrahit</i> agg.	1	2008
	Cleavers	<i>Galium aparine</i>	3	2010
	Herb-Robert	<i>Geranium robertianum</i>	3	2010
	Herb Bennet	<i>Geum urbanum</i>	2	2010
	Ground-Ivy	<i>Glechoma hederacea</i>	1	2008
	Floating Sweet-Grass	<i>Glyceria fluitans</i>	1	2008
	Ivy	<i>Hedera helix</i>	4	2010
	Hogweed	<i>Heracleum sphondylium</i>	6	2010
	Hawkweed	<i>Hieracium aggregatum</i>	1	2010
	Yorkshire-Fog	<i>Holcus lanatus</i>	5	2010

flowering plant	Creeping Soft-Grass	<i>Holcus mollis</i>	3	2010
	Wall Barley	<i>Hordeum murinum</i>	1	2008
	Hyacinthoides	<i>Hyacinthoides</i>	1	2008
	Bluebell	<i>Hyacinthoides non-scripta</i>	6	2012
	Perforate St. John's-Wort	<i>Hypericum perforatum</i>	1	2008
	Cat's-Ear	<i>Hypochaeris radicata</i>	3	2010
	Holly	<i>Ilex aquifolium</i>	6	2010
	Indian Balsam	<i>Impatiens glandulifera</i>	3	2010
	Compact Rush	<i>Juncus conglomeratus</i>	1	2010
	Soft Rush	<i>Juncus effusus</i>	1	2008
	Hard Rush	<i>Juncus inflexus</i>	1	2008
	Yellow Archangel	<i>Lamium galeobdolon</i>	2	2010
	White Dead-Nettle	<i>Lamium album</i>	1	2008
	Red Dead-Nettle	<i>Lamium purpureum</i>	1	2008
	Nipplewort	<i>Lapsana communis</i>	1	2008
	Meadow Vetchling	<i>Lathyrus pratensis</i>	3	2010
	Autumnal Hawkbit	<i>Leontodon autumnalis</i>	1	2008
	Oxeye Daisy	<i>Leucanthemum vulgare</i>	2	2010
	Common Toadflax	<i>Linaria vulgaris</i>	1	2008
	Italian Rye-Grass	<i>Lolium multiflorum</i>	1	2008
	Perennial Rye-Grass	<i>Lolium perenne</i>	2	2010
	Honeysuckle	<i>Lonicera periclymenum</i>	2	2010
	Common Bird's-Foot-Trefoil	<i>Lotus corniculatus</i>	2	2010
	Large Bird's-Foot-Trefoil	<i>Lotus pedunculatus</i>	1	2010
	Apple	<i>Malus domestica</i>	1	2008
	Pineapple Weed	<i>Matricaria discoidea</i>	1	2008
	Welsh Poppy	<i>Meconopsis cambrica</i>	1	2008
	Black Medick	<i>Medicago lupulina</i>	1	2008
	Dog's Mercury	<i>Mercurialis perennis</i>	6	2010
	Wood Millet	<i>Milium effusum</i>	2	2010
	Field Forget-Me-Not	<i>Myosotis arvensis</i>	1	2008
	Water Chickweed	<i>Myosoton aquaticum</i>	1	2008
	Garden Daffodil	<i>Narcissus</i>	1	2008
	Wood-Sorrel	<i>Oxalis acetosella</i>	2	2010
	Common Poppy	<i>Papaver rhoeas</i>	1	2008
	Pale Persicaria	<i>Persicaria lapathifolia</i>	1	2008
	Redshank	<i>Persicaria maculosa</i>	1	2008
	Timothy	<i>Phleum pratense</i>	2	2010
	Burnet-Saxifrage	<i>Pimpinella saxifraga</i>	1	2010
	Ribwort Plantain	<i>Plantago lanceolata</i>	2	2010
	Greater Plantain	<i>Plantago major</i>	1	2008
	Annual Meadow-Grass	<i>Poa annua</i>	2	2010
	Wood Meadow-Grass	<i>Poa nemoralis</i>	1	2008
	Smooth Meadow-Grass	<i>Poa pratensis</i>	1	2008
	Rough Meadow-Grass	<i>Poa trivialis</i>	1	2008
	Equal-Leaved Knotgrass	<i>Polygonum arenastrum</i>	1	2008

flowering plant	Knotgrass agg.	<i>Polygonum aviculare</i> agg.	1	2008
	Silverweed	<i>Potentilla anserina</i>	1	2008
	Tormentil	<i>Potentilla erecta</i>	2	2010
	Creeping Cinquefoil	<i>Potentilla reptans</i>	2	2010
	Selfheal	<i>Prunella vulgaris</i>	1	2010
	Wild Cherry	<i>Prunus avium</i>	2	2010
	Wild Plum	<i>Prunus domestica</i>	1	2008
	Blackthorn	<i>Prunus spinosa</i>	2	2010
	Oak	<i>Quercus</i>	1	2010
	Sessile Oak	<i>Quercus petraea</i>	4	2012
	Pedunculate Oak	<i>Quercus robur</i>	6	2010
	Meadow Buttercup	<i>Ranunculus acris</i>	3	2010
	Bulbous Buttercup	<i>Ranunculus bulbosus</i>	1	2008
	Creeping Buttercup	<i>Ranunculus repens</i>	3	2010
	Yellow-Rattle	<i>Rhinanthus minor</i>	2	2010
	Field Rose	<i>Rosa arvensis</i>	3	2010
	Dog Rose	<i>Rosa canina</i> agg.	5	2010
	Dewberry	<i>Rubus caesius</i>	1	2008
	Bramble	<i>Rubus fruticosus</i> agg.	5	2010
	Raspberry	<i>Rubus idaeus</i>	1	2008
	Common Sorrel	<i>Rumex acetosa</i>	3	2010
	Sheep's Sorrel agg.	<i>Rumex acetosella</i>	1	2008
	Curled Dock	<i>Rumex crispus</i>	1	2008
	Broad-Leaved Dock	<i>Rumex obtusifolius</i>	4	2010
	Eared Willow	<i>Salix aurita</i>	1	2008
	Goat Willow	<i>Salix caprea</i>	1	2008
	Grey Willow	<i>Salix cinerea</i>	1	2010
	Crack Willow	<i>Salix fragilis</i>	2	2010
	Elder	<i>Sambucus nigra</i>	3	2010
	Biting Stonecrop	<i>Sedum acre</i>	1	2008
	Common Ragwort	<i>Senecio jacobaea</i>	1	2008
	Oxford Ragwort	<i>Senecio squalidus</i>	1	2008
	Groundsel	<i>Senecio vulgaris</i>	1	2008
	Hedge Mustard	<i>Sisymbrium officinale</i>	1	2008
	Bittersweet	<i>Solanum dulcamara</i>	1	2008
	Perennial Sow-Thistle	<i>Sonchus arvensis</i>	1	2008
	Prickly Sow-Thistle	<i>Sonchus asper</i>	1	2008
	Smooth Sow-Thistle	<i>Sonchus oleraceus</i>	1	2008
	Betony	<i>Stachys officinalis</i>	2	2010
	Marsh Woundwort	<i>Stachys palustris</i>	1	2010
	Hedge Woundwort	<i>Stachys sylvatica</i>	3	2010
	Lesser Stitchwort	<i>Stellaria graminea</i>	1	2010
	Greater Stitchwort	<i>Stellaria holostea</i>	3	2010
	Common Chickweed	<i>Stellaria media</i>	2	2010
	Devil's-Bit Scabious	<i>Succisa pratensis</i>	1	2010
	Dandelion	<i>Taraxacum officinale</i> agg.	1	2008

flowering plant	Wood Sage	<i>Teucrium scorodonia</i>	1	2008
	Goat's-Beard	<i>Tragopogon pratensis</i>	1	2008
	Red Clover	<i>Trifolium pratense</i>	3	2010
	White Clover	<i>Trifolium repens</i>	2	2010
	Scentless Mayweed	<i>Tripleurospermum inodorum</i>	1	2008
	Bread Wheat	<i>Triticum aestivum</i>	1	2008
	Colt's-Foot	<i>Tussilago farfara</i>	1	2008
	Wych Elm	<i>Ulmus glabra</i>	3	2010
	Common Nettle	<i>Urtica dioica</i>	5	2010
	Brooklime	<i>Veronica beccabunga</i>	1	2010
	Slender Speedwell	<i>Veronica filiformis</i>	1	2008
	Ivy-Leaved Speedwell agg.	<i>Veronica hederifolia</i>	1	2008
	Wood Speedwell	<i>Veronica montana</i>	2	2010
	Common Field-Speedwell	<i>Veronica persica</i>	1	2008
	Tufted Vetch	<i>Vicia cracca</i>	2	2010
	Hairy Tare	<i>Vicia hirsuta</i>	1	2008
	Common Vetch	<i>Vicia sativa</i>	1	2008
	Bush Vetch	<i>Vicia sepium</i>	2	2010
	Common Dog-Violet	<i>Viola riviniana</i>	1	2010
horsetail	Field Horsetail	<i>Equisetum arvense</i>	1	2008
lichen	Acarospora fuscata	<i>Acarospora fuscata</i>	1	1995
	Caloplaca citrina	<i>Caloplaca citrina</i>	1	1995
	Caloplaca holocarpa	<i>Caloplaca holocarpa</i>	1	1995
	Candelariella aurella	<i>Candelariella aurella</i>	1	1995
	Candelariella vitellina	<i>Candelariella vitellina</i>	1	1995
	Cladonia fimbriata	<i>Cladonia fimbriata</i>	1	1995
	Lecanora albescens	<i>Lecanora albescens</i>	1	1995
	Lecanora conizaeoides	<i>Lecanora conizaeoides</i>	1	1995
	Lecanora dispersa	<i>Lecanora dispersa</i>	1	1995
	Lecanora polytropa	<i>Lecanora polytropa</i>	1	1995
	Lecanora soralifera	<i>Lecanora soralifera</i>	1	1995
	Lecidella scabra	<i>Lecidella scabra</i>	1	1995
	Lecidella stigmatea	<i>Lecidella stigmatea</i>	1	1995
	Lepraria incana	<i>Lepraria incana</i>	1	1995
	Parmelia saxatilis	<i>Parmelia saxatilis</i>	1	1995
	Phaeophyscia orbicularis	<i>Phaeophyscia orbicularis</i>	1	1995
	Physcia caesia	<i>Physcia caesia</i>	1	1995
	Porpidia tuberculosa	<i>Porpidia tuberculosa</i>	1	1995
	Psilolechia lucida	<i>Psilolechia lucida</i>	1	1995
	Rhizocarpon reductum	<i>Rhizocarpon reductum</i>	1	1995
	Rinodina gennarii	<i>Rinodina gennarii</i>	1	1995
	Scoliciosporum umbrinum	<i>Scoliciosporum umbrinum</i>	1	1995
	Verrucaria muralis	<i>Verrucaria muralis</i>	1	1995
	Verrucaria nigrescens	<i>Verrucaria nigrescens</i>	1	1995
	Xanthoria parietina	<i>Xanthoria parietina</i>	1	1995
liverwort	Notched Pouchwort	<i>Calypogeia arguta</i>	1	2007

liverwort	Bifid Crestwort	<i>Lophocolea bidentata</i>	1	2007
	Variable-leaved Crestwort	<i>Lophocolea heterophylla</i>	1	2007
	Endive Pellia	<i>Pellia endiviifolia</i>	1	2007
moss	Creeping Feather-moss	<i>Amblystegium serpens</i>	1	2007
	Common Smoothcap	<i>Atrichum undulatum</i>	2	2010
	Lesser Bird's-claw Beard-moss	<i>Barbula convoluta</i>	1	2007
	Cylindric Beard-moss	<i>Barbula cylindrica</i>	1	2007
	Rigid Beard-moss	<i>Barbula rigidula</i>	1	2007
	Bird's-claw Beard-moss	<i>Barbula unguiculata</i>	1	2007
	Whitish Feather-moss	<i>Brachythecium albicans</i>	1	2007
	Rough-stalked Feather-moss	<i>Brachythecium rutabulum</i>	1	2007
	Silver-moss	<i>Bryum argenteum</i>	1	2007
	Bryum bicolor	<i>Bryum bicolor</i>	1	2007
	Capillary Thread-moss	<i>Bryum capillare</i>	1	2007
	Small-mouthed Thread-moss	<i>Bryum inclinatum</i>	1	2007
	Crimson-tuber Thread-moss	<i>Bryum rubens</i>	1	2007
	Pointed Spear-moss	<i>Calliergon cuspidatum</i>	1	2007
	Heath Star Moss	<i>Campylopus introflexus</i>	1	2007
	Redshank	<i>Ceratodon purpureus</i>	1	2007
	Silky Forklet-moss	<i>Dicranella heteromalla</i>	1	2007
	Common Pincushion	<i>Dicranoweisia cirrata</i>	1	2007
	Common Feather-moss	<i>Eurhynchium praelongum</i>	2	2010
	Common Pocket-moss	<i>Fissidens taxifolius</i>	1	2007
	Grey-cushioned Grimmia	<i>Grimmia pulvinata</i>	1	2007
	Heath Plait-moss	<i>Hypnum jutlandicum</i>	1	2007
	Elegant Silk-moss	<i>Isopterygium elegans</i>	1	2007
	Swan's-neck Thyme-moss	<i>Mnium hornum</i>	1	2007
	Cape Thread-moss	<i>Orthodontium lineare</i>	1	2007
	Wood Bristle-moss	<i>Orthotrichum affine</i>	1	2007
	Hooded Bristle-moss	<i>Orthotrichum cupulatum</i>	1	2007
	White-tipped Bristle-moss	<i>Orthotrichum diaphanum</i>	1	2007
	Hart's-tongue Thyme-moss	<i>Plagiomnium undulatum</i>	2	2010
	Juicy Silk-moss	<i>Plagiothecium succulentum</i>	1	2007
	Nodding Thread-moss	<i>Pohlia nutans</i>	1	2007
	Clustered Feather-moss	<i>Rhynchostegium confertum</i>	1	2007
	Long-beaked Water Feather-moss	<i>Rhynchostegium riparioides</i>	1	2007
	Springy Turf-moss	<i>Rhytidiadelphus squarrosus</i>	1	2007
	Schistidium apocarpum	<i>Schistidium apocarpum</i>	1	2007
	Water Screw-moss	<i>Tortula latifolia</i>	1	2007
	Wall Screw-moss	<i>Tortula muralis</i>	1	2007
	Bruch's Pincushion	<i>Ulota crispa var. norvegica</i>	1	2007

Appendix 5: Protected Species Information

The following species are protected under EU law, such as the Conservation (Natural Habitats, &c.) Regulations (2010):

- All UK bat species
- Dormouse
- Great Crested Newt
- Large Blue Butterfly
- Natterjack Toad
- Otter
- Scottish Wild Cat
- Smooth Snake and Sand Lizard
- Various aquatic and plant species

These species are afforded the highest protection in the UK. Under this protection it is an offence to; deliberately capture, injure or kill any wild animal of a European protected species; deliberately disturb wild animal of any such species; deliberately take or destroy the eggs of such an animal, or damage or destroy a breeding site or resting place of such an animal.

In addition to this it is an offence to be in possession of, or to control, transport, sell or exchange, or to offer for sale or exchange, and European Protected species.

The following species are protected under UK law, such as the Wildlife and Countryside Act 1981:

- Badger
- Nesting birds
- Red Squirrel
- Reptiles (Adder, Common lizard, Grass snake, Slow worm)
- Water Vole
- Pine Martin
- White Clawed Crayfish
- Various bird species i.e. Barn Owl
- Various plant species

Therefore under this protection it is an offence to; kill, injure or take any of the above species.

Nesting birds are only protected during the breeding season whilst on their nest. In addition the adults being protected, the eggs, young and nest itself is protected whilst in use.

Badgers are protected under The protection of Badger Act 1992. Under this legislation it is an offence to; take, injure, kill, or cruelly ill-treat a badger, sell and possess of a live badger, or interfere with a badger sett.

The following habitat types are protected under UK Law

- Habitats that are used by protected species
- Habitats that fall within designated sites
- Hedgerows
- Individual Trees/woods can be protected under Tree Preservation Orders

Appendix 6: References

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Hedgerow Regulations 1997 <<http://www.legislation.gov.uk/uksi/1997/1160/contents/made>>

Protection of Badger Act 1992 <<http://www.legislation.gov.uk/ukpga/1992/51/contents>>

I hope that this report provides all the necessary information, but should any further advice be needed please do not hesitate to contact the author.

Signed



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David Ryder

13th January 2013

For and on behalf of *JCA Ltd*

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