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Haycock & Jay Associates Ltd

CONSULTANT ECOLOGISTS

**Land Adjacent to 110 Preston Road,
Longridge, Preston, Lancashire**

Phase 1 Habitat Survey

Submitted to:

**Grimbaldeston Farm Trustees
c/o W Monks (Longridge) Ltd
Hacking Hobbs Estate
Longridge
Preston
PR3 3EZ**

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JWP001

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1.0 SUMMARY

1.1 Haycock and Jay Associates were commissioned by Grimbaldeston Farm Trustees on 25th November 2010 to undertake a Desk Study and Phase 1 habitat and bat scoping survey on land adjacent to 110 Preston Road, Longridge, Preston, Lancashire. This site is also referred to as land adjacent to Grimbaldeston Farm.

1.2 The survey recorded the following habitats;

- Poor semi-improved grassland
- Semi-improved neutral grassland
- Tall ruderal vegetation
- Continuous scrub
- Bare ground
- Native, species-poor hedgerow
- Broad-leaved trees
- Ditches (both dry and wet)
- Pond
- Scattered scrub
- Building
- Post and rail fence

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1.3 Habitat suitable for the following protected species was identified;

- Great crested newt
- Bats
- Badger

1.4 UK Biodiversity Action Plan (BAP) and Lancashire BAP priority species and other species of conservation concern were also considered, and habitat suitable for a range of UK BAP and Lancashire BAP priority bird species was identified, as well as habitat capable of supporting brown hare and hedgehog.

1.5 The recommendations set out below aim to ensure that the development is compliant with legislation and planning policy with respect to hedgerows, ponds, breeding birds and UK BAP priority species.

1.6 As there is also habitat on site that is suitable for great crested newt, bats, and badger, further surveys are recommended to determine whether these species would be affected by the development.

Main Recommendations

1.7 The following measures are recommended to ensure the development complies with relevant biodiversity legislation and policy:

- Hedgerows and mature trees be retained within any development plans as far as is possible, with an appropriate level of enhancement as mitigation for any negative impacts accruing due to development ;
- Retention of the waterbody and ditches; and
- Any necessary clearance of trees and shrubs should be undertaken outside the bird breeding season (site clearance should be undertaken in the period August to February inclusive)

1.8 Habitat enhancement within any development is recommended. An example of suitable habitat enhancement would be the exclusion of grazing animals from hedgerow H1 and ditch to allow the hedgerow to grow from the base and allow hedge bottom species to flourish. The thicker hedge with sheltered base will provide enhanced habitat for breeding birds, and hedge bottom habitat suitable for grey partridge, brown hare and hedgehog (all UK BAP priority species extant in the locality).

1.9 Further mitigation or habitat enhancement may be necessary depending on the results of further protected species survey.

Recommended Further Surveys

1.9.1 The following protected species survey is recommended;

- Great crested newt survey on the waterbody within the site, ditches holding water and adjacent water bodies if access can be arranged.
- If any of the trees identified as having low or medium bat roost potential will be impacted upon by the proposed development, then these trees should be subject to activity and emergence survey to ascertain usage and allow mitigation to be planned.
- If the integrity of hedgerows is likely to be impacted upon by the proposed development, then these should be subject to bat activity survey to ascertain usage for foraging and commuting allowing any necessary mitigation to be planned.
- Badger survey three months prior to any development activity is recommended to allow any necessary licensed works to take place if the site is in use by badger

2.0 INTRODUCTION

- 2.1 Haycock and Jay Associates were commissioned by Grimbaldeston Farm Trustees on 25th November 2010 to undertake a Desk Study and Phase 1 habitat and bat scoping survey on land adjacent to 110 Preston Road, Longridge, Preston, Lancashire. This site is also referred to as land adjacent to Grimbaldeston Farm.
- 2.2 The site encompasses approximately 2.5ha centred on National Grid Reference; SD600361, lying immediately south of the village of Longridge.
- 2.3 The commission comprises the following;
- Desk study – a search for records of protected species, UK BAP species and other rare or scarce species which have been recorded within 1km of the site, and a search for protected sites within 2km which may be impacted upon by the proposals;
 - Phase 1 habitat survey and bat scoping survey - This survey maps all habitats on site and records habitat suitable for protected species including bats;
 - Report to include summary, method, site description, and an assessment of the potential of the site to support protected species; and
 - Mapping – a Phase 1 habitat plan of the site will be produced
- 2.4 This report is submitted in fulfilment of the above commission.

2.5 Limitations

- 2.5.1 It is acknowledged that the survey was undertaken at a sub-optimal time for Phase 1 habitat survey, however, as an initial survey to map habitats and potential habitat for protected species, the study is regarded as fit for purpose.
- 2.5.2 The species data collated during the desk study is mainly derived from records submitted by members of the public and ad hoc surveys undertaken by volunteers. Therefore, it should not be taken as a definitive list of the protected species and other species of conservation concern that occur in the locality.

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4.0 DESK STUDY RESULTS

4.1 Protected Sites

- 4.1.1 There are no statutory designated sites within 2km of the development.
- 4.1.2 Nine Local Wildlife Sites were located within 2km of the site, with one within the zone of influence for the site. This is Alston Reservoirs Biological Heritage Site (BHS), which is approximately 25m to the east of the site (on the other side of Preston Road). The citation for Alston Reservoirs BHS is attached at Appendix 1.

4.2 Biodiversity Action Plan Habitats

- 4.2.1 Two areas of UK Biodiversity Action Plan priority habitat are present within 1km of the site, namely a traditional orchard at SD599369, and Lowland Meadow associated with Alston Reservoirs BHS.

4.3 Protected Species and Other Species of Conservation Concern

- 4.3.1 Protected species and species of conservation concern identified during the desk study are summarised in Table 1 below. A full list of data received is attached at Appendix 2

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Table 1 - Data search summary

Taxon Latin Name	Taxon Common Name	HR Sch 2 or 4	WCA Sch 1, 5 or 8	BAP / Other	Date / Notes	Sample Spatial Reference	Source
<i>Alauda arvensis</i>	Skylark			UK BAP, LBAP, Red	1998	SD63D	LERN
<i>Anas acuta</i>	Pintail			LBAP, Amber	Alston Reservoirs (1990)	SD611362	LERN
<i>Anas penelope</i>	Widgeon			LBAP, Amber	Alston Reservoirs (1990)	SD605360	LERN
<i>Anas platyrhynchos</i>	Mallard			Amber	Alston Reservoir (2006)	SD6036	LERN
<i>Anthus pratensis</i>	Meadow Pipit			LBAP, Amber	2000	SD63C	LERN
<i>Aythya ferina</i>	Pochard			LBAP, Amber	Alston Reservoirs (1990)	SD605360	LERN
<i>Aythya fuligula</i>	Tufted Duck			Amber	Alston Reservoirs (1990)	SD611362	LERN
<i>Bucephala clangula</i>	Goldeneye			LBAP, Amber	Alston Reservoirs (1990)	SD611362	LERN
<i>Carduelis cannabina</i>	Linnet			UK BAP, LBAP, Red	1999	SD63C	LERN

Taxon Latin Name	Taxon Common Name	HR Sch 2 or 4	WCA Sch1, 5 or 8	BAP / Other	Date / Notes	Sample Spatial Reference	Source
<i>Charadrius dubius</i>	Little Ringed Plover			LBAP	Alston Reservoir (2006)	SD6036	LERN
<i>Charadrius hiaticula</i>	Ringed Plover			LBAP, Amber	Alston Reservoir (2006)	SD6036	LERN
<i>Cuculus canorus</i>	Cuckoo			UK BAP, LBAP, Red	2000	SD63C	LERN
<i>Delichon urbica</i>	House Martin			LBAP, Amber	Alston Reservoir (2006)	SD6036	LERN
<i>Emberiza citrinella</i>	Yellowhammer			UK BAP, LBAP, Red	Recorded in 10km square; at Dutton Hall in 2009 (6km distant).	SD63	NBN
<i>Falco tinnunculus</i>	Kestrel			UK BAP, LBAP, Red	Recorded throughout area	SD53 / SD63	NBN
<i>Gallinago gallinago</i>	Snipe			LBAP, Amber	Alston Reservoirs (1990)	SD611362	LERN
<i>Haematopus ostralegus</i>	Oystercatcher			LBAP, Amber	Alston Reservoir (2006)	SD6036	LERN
<i>Hirundo rustica</i>	Swallow			LBAP, Amber	1999	SD63C	LERN
<i>Larus argentatus</i>	Herring Gull			UK BAP, LBAP, Red	Alston Reservoirs (1990)	SD611362	LERN
<i>Larus canus</i>	Common Gull			Amber	Alston Reservoirs (1990)	SD611362	LERN
<i>Larus fuscus</i>	Lesser Black-Backed Gull			LBAP, Amber	Alston Reservoirs (1990)	SD611362	LERN
<i>Larus marinus</i>	Great Black-Backed Gull			LBAP, Amber	Alston Reservoirs (1990)	SD606362	LERN
<i>Larus ridibundus</i>	Black-Headed Gull			LBAP, Amber	Alston Reservoirs (1990)	SD611362	LERN
<i>Lepus europaeus</i>	Brown Hare			UK BAP, LBAP	2000	SD6034	LERN
<i>Meles meles</i>	Badger			Protection of Badgers Act 1992	Leeces Wood, Hothersall 1974	SD63C	NBN
<i>Numenius arquata</i>	Curlew			UK BAP, LBAP, Amber	1999	SD63C	LERN
<i>Nyctalus noctula</i>	Noctule	Yes	Yes	UK BAP, LBAP	Grimsargh Reservoirs (2009) >1km from site.	SD590346	LERN
<i>Parus palustris</i>	Marsh Tit			LBAP, Red	2000	SD63C	LERN
<i>Passer domesticus</i>	House Sparrow			UK BAP, LBAP, Red	1999	SD63C	LERN
<i>Passer domesticus</i>	House Sparrow			UK BAP, LBAP, Red	Five records in adjacent estate in 2009	SD53 / SD63	NBN
<i>Passer montanus</i>	Tree sparrow			LBAP, UK BAP, Red	Recorded in 10km square.	SD53 / SD63	NBN
<i>Perdix perdix</i>	Grey partridge			UK BAP, LBAP, Amber	Recorded throughout area	SD53 / SD63	NBN

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Taxon Latin Name	Taxon Common Name	HR Sch 2 or 4	WCA Sch 1, 5 or 8	BAP / Other	Date / Notes	Sample Spatial Reference	Source
<i>Philomachus pugnax</i>	Ruff			LBAP, Red	Alston Reservoirs (1990)	SD611362	LERN
<i>Phylloscopus trochilus</i>	Willow Warbler			LBAP, Amber	1999	SD63C	LERN
<i>Picus viridis</i>	Green Woodpecker			Amber	1999	SD63C	LERN
<i>Pipistrellus pipistrellus</i>	Pipistrelle	Yes	Yes	LBAP	Higher College Farm, record from 1988	SD619371	LERN
<i>Pipistrellus pipistrellus</i>	Pipistrelle	Yes	Yes	LBAP	Lower Lane, record from 1989	SD609370	LERN
<i>Prunella modularis</i>	Dunnock			UK BAP, LBAP, Amber	1999	SD63C	LERN
<i>Prunella modularis</i>	Dunnock			UK BAP, LBAP, Amber	3 records in adjacent estate in 2009 great garden bird watch.	SD53 / SD63	NBN
<i>Pyrhula pyrrhula</i>	Bullfinch			UK BAP, LBAP, Amber	Recorded in 10km square in 2009.	SD53 / SD63	NBN
<i>Regulus regulus</i>	Goldcrest			Amber	2000	SD63C	LERN
<i>Sturnus vulgaris</i>	Starling			UK BAP, LBAP, Red	1999	SD63C	LERN
<i>Sylvia communis</i>	Whitethroat			Amber	1999	SD63C	LERN
<i>Tringa totanus</i>	Redshank			LBAP, Amber	Alston Reservoir (2006)	SD6036	LERN
<i>Triturus cristatus</i>	Great Crested Newt	Yes	Yes	LBAP & UK BAP	Breeding population recorded in 2003. Pond 1200m from site.	SD6138 3585	LERN
<i>Triturus cristatus</i>	Great Crested Newt	Yes	Yes	LBAP & UK BAP	Breeding population recorded in 2003. Pond 1128m from site.	SD6131 3594	LERN
<i>Triturus cristatus</i>	Great Crested Newt	Yes	Yes	LBAP & UK BAP	Breeding population recorded in 2003. Pond 980m from site.	SD6115 3589	LERN
<i>Triturus cristatus</i>	Great Crested Newt	Yes	Yes	LBAP & UK BAP	Breeding population recorded in 2003. Pond 386m from site.	SD6047 3575	LERN
<i>Triturus cristatus</i>	Great Crested Newt	Yes	Yes	LBAP & UK BAP	Adults recorded in 2003. Pond 1092m from site.	SD6115 3556	LERN
<i>Turdus philomelos</i>	Song Thrush			UK BAP, LBAP, Red	2000	SD63C	LERN

Taxon Latin Name	Taxon Common Name	HR Sch 2 or 4	WCA Sch1, 5 or 8	BAP / Other	Date / Notes	Sample Spatial Reference	Source
<i>Turdus philomelos</i>	Song Thrush			UK BAP, LBAP, Red	Recorded in Longridge in 2009.	SD53 / SD63	NBN
<i>Turdus viscivorus</i>	Mistle Thrush			Amber	1999	SD63C	LERN
<i>Vanellus vanellus</i>	Lapwing			UK BAP, LBAP, Red	Alston Reservoir (2006)	SD6036	LERN

Abbreviations: LBAP – Lancashire Biodiversity Action Plan
UK BAP – United Kingdom Biodiversity Action Plan
Red – Birds of Conservation Concern - Red list
Amber – Birds of Conservation Concern – Amber list
LERN – Lancashire Environmental Records Network
NBN – National Biodiversity Network
HR = Conservation (Habitats &c) Regulations 1994, as amended
WCA = Wildlife and Countryside Act 1981, as amended

5.0 PHASE 1 HABITAT SURVEY RESULTS

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5.1 Site description

- 5.1.1 The site extends to approximately 2.5ha and is situated directly south of Longridge. The eastern boundary is formed by Preston Road. To the south and south-west is Grimbaldeston Farm and stone storage areas which gives way to a pasture with hedgerows and standard trees. To the north is a housing estate of relatively recent origin.
- 5.1.2 Habitats are mapped on Figure 1. Please note that as the site boundary is defined by a thick line, boundary features are occasionally mapped outside the boundary, although they do actually occur on the boundary.
- 5.1.3 The site itself consists mainly of species poor semi-improved grassland which is used as pasture for horses and sheep. Boundaries are formed by native hedgerows with standard trees, mainly ash. In the centre of the site is a modern stable block which was occupied by horses at the time of the survey. Various piles of stone and soil are associated with the stable area along with farm machinery and evidence of other activities consistent with horse husbandry. The stable area has dense scrub within it, and it is likely that the immediate area once formed an orchard as damson, apple and pear trees were recorded.
- 5.1.4 Both dry and wet ditches are present associated with hedgerows, and there is a small pond.
- 5.1.5 South of the entrance from Preston Road habitats are disturbed and appear unmanaged with coarse grassland (recorded as semi-improved neutral grassland) giving way to tall ruderal vegetation and bramble scrub. A number of substantial broad-leaved trees line the road, and new broad-leaved trees have also been planted along the road.
- 5.1.6 To the north of the entrance, grassland along Preston Road appears to have formed on a borrow pit, possibly dug when Alston Reservoirs were being built. This grassland represents semi-improved neutral grassland, although forbs are scarce. In the south east corner of the field (immediately north of the entrance to Preston Road) is a fenced area where soil has been tipped in recent times. This supports unmanaged coarse grassland.
- 5.1.7 Main habitats are described in detail below.

5.2 Poor semi-improved grassland

- 910813 0188
- 5.2.1 The majority of the site is dominated by heavily grazed grassland pastured by horses, with sheep in the western field at the time of the survey
- 5.2.2 In the western field the sward is dominated by perennial rye-grass *Lolium perenne*, Yorkshire fog *Holcus lanatus* and cock's-foot *Dactylis glomerata*. Forbs are represented by occasional creeping buttercup *Ranunculus repens* and broad-leaved dock *Rumex obtusifolius* with marsh thistle *Cirsium palustre* thinly distributed in damp spots
- 5.2.3 The majority of the eastern field is similarly species poor, although common bent *Agrostis capillaris* and crested dog's-tail *Cynosurus cristatus* are preferential in the sward. Forbs continue to be scarce throughout, although pointed spear-moss *Calliergonella cuspidata* is locally abundant where drainage is poor.
- 5.2.4 The poor semi-improved grassland on the site is consistent with National Vegetation Classification (NVC) MG6 *Lolium perenne* – *Cynosurus cristatus* grassland (Rodwell 1992).

5.3 Semi-improved neutral grassland

- 5.3.1 To the south and north of the entrance from Preston Road are areas of semi-improved neutral grassland. These consist of unmanaged stands of coarse grasses having most affinity with MG1 *Arrhenatherum elatius* grassland (Rodwell 1992)
- 5.3.2 The area to the north appears to be tipped material which has subsequently been colonised by false oat-grass *Arrhenatherum elatius*, common couch *Elytrigia repens*, cock's-foot, and Yorkshire fog. Large forbs indicative of disturbance in the recent past and eutrophication are present, including creeping thistle *Cirsium arvense*, broad-leaved dock, hedge bindweed *Calystegia sepium*, common nettle *Urtica dioica*, goosegrass *Galium aparine* and great willowherb *Epilobium hirsutum*. Species are also present which are likely to have been brought in with imported material, for example pendulous sedge *Carex pendula*, comfrey *Symphytum officinale* and a small cotoneaster *Cotoneaster* sp bush is present. Bramble *Rubus fruticosus* agg. is also present and it is likely that if no management takes place the area will become bramble scrub
- 5.3.3 Semi-improved neutral grassland to the south of the entranceway appears more natural, and coarse grasses are less exuberant allowing ribwort plantain *Plantago lanceolata*, Timothy *Phleum pratense* and common bent to thrive. Creeping thistle is prevalent in large areas, and if unmanaged the habitat is likely to become dominated by tall ruderal vegetation.

- 5.3.4 Semi-improved neutral grassland also occurs in the eastern part of the eastern field. This land appears to have been excavated at one time to create a low depression. The sward is dominated by crested dog's-tail, common bent and Yorkshire fog, although perennial rye-grass also occurs. Forbs are not prominent in the close grazed sward. Whilst perennial rye-grass is sparsely distributed, the grassland is considered to have most affinity with MG6 *Lolium perenne* - *Cynosurus cristatus* grassland.

5.4 Native, species-poor hedgerows

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- 5.4.1 Species-poor hedgerows dominated by hawthorn *Crataegus monogyna* characterise and define the site. Hedgerows have been labelled H1 to H5 on Figure 1 to facilitate description. Standard trees within hedgerows are described further in subsequent sections.
- 5.4.2 Hedgerow H1 forms the south-western boundary of the site, consisting almost entirely of hawthorn with one holly *Ilex aquifolium* noted. The hedgerow is open to grazing animals, and it no longer forms a stock-proof barrier being rather gappy and sparse below the browse line. Three ash *Fraxinus excelsior* are present. A ditch (dry at the time of the survey) runs along H1.
- 5.4.3 Hedgerow H2 is a substantial hedgerow separating the two fields. The hedgerow is dominated by blackthorn *Prunus spinosa* and hawthorn, with holly, dog rose *Rosa canina*, ivy *Hedera helix*, bramble and bittersweet *Solanum dulcamara*. Grazing animals are fenced out from the hedgerow on both sides, and consequently a relatively diverse groundflora was apparent at the time of the survey including red campion *Silene dioica*, self heal *Prunella vulgaris*, wood avens *Geum urbanum*, common figwort *Scrophularia nodosa*, common nettle and broad-leaved dock. There is a ditch associated with this hedgerow which held water at the time of the survey. Associated with the ditch is wet grassland featuring Yorkshire fog, soft rush *Juncus effusus*, marsh thistle and reed canary-grass *Phalaris arundinacea*. H2 continues to the west of the stable to the track, and has three large standards, two ash and an English oak *Quercus robur*.
- 5.4.4 Hedgerow H3 forms a boundary between the eastern field and the stable area. This is an unmanaged hedgerow dominated by hawthorn with ash standards and ivy. Willow *Salix* sp also occur.
- 5.4.5 Hedgerow H4 defines the northern boundary of the site and is a well-managed hawthorn edge with occasional holly. There are three field maple *Acer campestre* and standard English oak and ash.
- 5.4.6 Hedgerow H5 is a managed hedge dominated by hawthorn in the south of the site, with holly, elder *Sambucus nigra* and bramble.

5.5 Waterbodies

- 5.5.1 In addition to the ditches associated with hedgerows, there was one waterbody associated with the ditch along H2. This is a small pond with brooklime *Veronica beccabunga* and remote sedge *Carex remota*, indicating a semi-permanent water body capable of supporting breeding amphibians.
- 5.5.2 Ponds are abundant in the surrounding countryside, and a field pond occurs some 60m to the south-west of the site.

5.6 Continuous native scrub

- 5.6.1 Continuous native scrub occurs in two locations on the site.
- 5.6.2 South of the stable is a thicket consisting of blackthorn, hawthorn, elder, ash and bramble. Of particular interest is the occurrence of damson trees *Prunus domestica* ssp *insitica* and an old pear tree *Pyrus communis* and apple *Malus pumila* indicating that this may once have been an orchard. The ground flora reflects the dense canopy with a good covering of common feather moss *Kindbergia praelonga* with wood avens and ivy. In the south of this scrub area is a large clonal patch of dog's mercury *Mercurialis perennis*.
- 5.6.3 Along the track in the south of the site are a number of piles of stone and other debris affording potential hibernating and resting sites for amphibians.
- 5.6.4 Further scrub occurs in the south-east of the site where bramble is colonising former coarse grassland and tall ruderal vegetation.

5.7 Scattered scrub

- 5.7.1 Scattered scrub is limited in distribution on this site confined to ungrazed areas along the track, and on the eastern boundary along the road in the south of the site associated with large planted broad-leaved trees.

5.8 Tall ruderal vegetation

- 5.8.1 Tall ruderal vegetation occurs in the south east of the site and creeping thistle dominates. Rosebay willowherb *Chamerion angustifolium*, broad-leaved dock and hogweed *Heracleum sphondylium* also occur with coarse grasses such as false oat-grass, common couch and tufted hair-grass *Deschampsia cespitosa*.
- 5.8.2 This habitat is likely derived from coarse grassland and is a precursor to invasion by bramble and other scrub.

5.9 Broad-leaved trees

- 5.9.1 Mature broad-leaved trees were recorded as standards in the hedgerows, and along Preston Road in the south east of the site where they form a screen between Preston Road and Grimbaldeston Farm
- 5.9.2 Ash are the most common standard tree, with fourteen being mapped. Other mature broadleaves include English oak and sycamore. Planted broad-leaves include field maple in the north, and rowan *Sorbus aucuparia*, silver birch *Betula pendula* and beech *Fagus sylvatica* in the south east. No conifers were recorded.
- 5.9.3 Notable trees are mapped on Figure 1 and listed in the protected species section below

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5.10 Building

- 5.10.1 One building is present which consists of a modern, purpose built stable for two or three horses. The roof is made of metal sheeting with no apparent cavity or roof void.
- 5.10.2 Associated with the building are soil and rubble piles, manure and various parked machines.

5.11 Fauna records

- 5.11.1 Whilst no formal survey for fauna was undertaken, the following species were noted during the survey;

Table 2 – Incidental fauna records

Species	Common name	Notes
<i>Vanellus vanellus</i>	Lapwing	On eastern field.
<i>Sturnus vulgaris</i>	Starling	Small feeding flock on eastern field.
<i>Troglodytes troglodytes</i>	Wren	Associated with hedgerow
<i>Erithacus rubecula</i>	Robin	Associated with hedgerow
<i>Turdus merula</i>	Blackbird	Associated with hedgerow
<i>Parus major</i>	Great tit	Associated with hedgerow
<i>Passer domesticus</i>	House sparrow	Associated with hedgerow
<i>Fringilla coelebs</i>	Chaffinch	In continuous scrub near stable.
<i>Falco tinnunculus</i>	Kestrel	Hunting in unmanaged grassland.

6.0 POTENTIAL HABITAT FOR PROTECTED SPECIES AND SPECIES OF CONSERVATION CONCERN

6.1 Great crested newt

- 6.1.1 Great crested newt *Triturus cristatus* are known to be common and widespread in this part of Lancashire, with the frequent field ponds (derived from marl pits) throughout the landscape affording good breeding habitat. A breeding population was recorded 386m away in 2003 forming the eastern-most pond of a metapopulation.
- 6.1.2 As the pastoral landscape with field ponds extends westwards from this population, it is likely that great crested newt are present in terrestrial habitat and may breed in the pond on site.
- 6.1.3 The waterbody is small and possibly dries out on occasion, making it potential breeding habitat for great crested newt. Additionally there is well-structured terrestrial habitat in the form of rough grassland and hedge bottoms. Of particular note are the piles of stone along the hedge bottom in the south west of the site. This provides suitable hibernation and resting habitat for great crested newt.

6.2 Bats

- 6.2.1 A good number of mature trees occur on site, and hedgerows provide potential commuting and foraging habitat.
- 6.2.2 Trees were surveyed using a scoping field survey methodology based on Bat Surveys Good Practice Guidelines (Bat Conservation Trust, 2007). The survey assessed the suitability of each tree for bat presence by looking at girth, tree species, presence of fissures and cavities and environmental factors.
- 6.2.3 Each tree was categorised in the field according to its suitability for supporting roosting bats in summer, the breeding period, transitionally and in winter. The level of potential is defined by the presence of suitable roosting features together with the locality, environmental conditions, age and proximity to suitable bat foraging habitat. The categories of potential are defined below:
- **Negligible:** no or very slight potential to support roosting bats.
 - **Low:** some bat potential however only for very low numbers of transitory bats.
 - **Medium:** several potential roosting cavities suitable for summer roosting and transitory bats.
 - **High:** many suitable cavities with suitable environmental characteristics for larger roosts and maternity roosts.

6.2.4 Trees assessed are detailed in Table 3 below; trees are mapped on Figure 1

Table 3 – Bat Scoping Survey

Map code	Species	Potential roost features	Habitat notes	Bat roost potential
A1	Ash	Ivy, rot holes	On good hedgerow	Low
A2	Ash	Ivy, rot holes	On good hedgerow, sheltered foraging nearby.	Low
A3	Ash	Ivy, rot holes and splits	In scrub thicket	Medium
A4	Ash	Ivy, cavities	Group of three ash	Low
A5	Ash	Cavities and rot holes.	On hedgerow	Low
A6	Ash	Few cavities.	On hedgerow.	Negligible.
A7	Ash	Cavities present.	On hedgerow near houses.	Low
A8	Ash	No ivy, few cavities.	By Preston Road.	Negligible.
A9	Ash	Ivy, cavities and rot holes.	Mature specimen near sheltered foraging habitat and buildings.	Medium
A10	Ash	Lots of ivy.	Mature specimen near sheltered foraging habitat and buildings.	Medium
A11	Ash	Few cavities	On hedgerow, though exposed.	Negligible
A12	Ash	Few cavities	On hedgerow, though exposed.	Negligible
A13	Ash	Few cavities, no ivy.	On hedgerow, though exposed.	Low
A14	Ash	No cavities	On post and rail fence.	Negligible
S1	Sycamore	Ivy, cavities and rot holes.	Mature specimen near sheltered foraging habitat and buildings.	Medium
S2	Sycamore	Few cavities	Young specimen near sheltered foraging habitat and buildings.	Negligible
S3	Sycamore	Few cavities	Young specimen	Negligible
O1	English oak	Few cavities.	On hedgerow near houses.	Negligible
O2	English oak	Ivy present.	On hedgerow near houses.	Low
O3	English oak	Ivy, cavities and rot holes.	Mature specimen near sheltered foraging habitat	Medium

Map code	Species	Potential roost features	Habitat notes	Bat roost potential
			and buildings.	
B1	Beech	Few cavities, no ivy.	Large tree, but little damage.	Low
FM1	Field maple	No features	On hedgerow near houses.	Negligible
FM2	Field maple	No features	On hedgerow near houses.	Negligible
FM3	Field maple	No features	On hedgerow near houses.	Negligible
P1	Pear	Splits, rot holes and woodpecker hole	In sheltered area by scrub and hedgerows.	Medium

6.2.5 All hedgerows on the site may form foraging habitat and commuting routes for bats roosting in nearby properties or elsewhere in the locality. Individual trees and groups of trees may also form important foraging habitat for bats, in particular in windy conditions

6.2.6 The building is regarded as having negligible bat roost potential.

6.3 Breeding birds

6.3.1 Hedgerows provide good breeding bird habitat for species reliant on shrubs and scrub for nesting. H2 is of particular value, however, all are likely to provide breeding habitat for UK BAP and Lancashire BAP Priority Species

6.3.2 Whilst lapwing were recorded on the field in the east and the site provides winter foraging for this species, it is considered that the field may be too small and well-grazed to allow successful breeding

6.3.3 Other ground nesting birds are likely to be deterred by the pasturing of the field by horses throughout the growing season.

6.4 Badger

6.4.1 The site represents good badger habitat, and they are known to be extant locally.

6.5 Hedgehog

6.5.1 The hedgerows, scrub thickets and rough grassland all provide suitable habitat for this UK BAP and Lancashire BAP Priority species

6.6 Brown hare

- 6.6.1 The fields and rough grassland provide suitable habitat for this UK BAP and Lancashire BAP Priority species.

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7.0 RECOMMENDATIONS

7.1 Planning policy and legislation

- 7.1.1 Hedgerows and standing water were identified during the survey, these habitats are UK Biodiversity Action Plan Priority Habitats (UK BAP) and habitats of principal importance for the conservation of biodiversity as listed by the Secretary of State under Section 41 of the NERC Act 2006. It is also noted that Policy 21 of the Joint Lancashire Structure Plan aims at 'no net loss of natural heritage' as a result of any development.
- 7.1.2 Additionally, central and local government policy now points towards ecological enhancement on development sites. For example, Planning Policy Statement 9 states that 'plan policies should promote opportunities for the incorporation of beneficial biodiversity and geological features within the design of development'.
- 7.1.3 Potential negative impacts due to development of the fields themselves include the loss of habitat for brown hare, and winter feeding habitat for starling, lapwing, and a number of other waders of conservation concern.

7.2 Potential for Enhancement

- 7.2.1 It is recommended that hedgerows and mature trees be retained within any development plans as far as is possible, with an appropriate level of enhancement as mitigation for any negative impacts accruing due to development.
- 7.2.2 Enhancement is recommended along hedgerow H1 such that grazing animals be excluded from the hedgerow and ditch to allow the hedgerow to grow from the base and allow hedge bottom species to flourish. It may be necessary to plant further hawthorn, blackthorn and holly along the hedgerow where gaps have developed. The thicker hedge with sheltered base will provide enhanced habitat for breeding birds, and hedge bottom habitat suitable for grey partridge (a UK BAP priority species extant in the locality).
- 7.2.3 Retention and enhancement of hedgerows will also benefit hedgehogs.
- 7.2.4 Clearance of scrub, trees or hedgerow should take place outside the breeding bird season (i.e. undertake the works from August to February inclusive).
- 7.2.5 Further mitigation or habitat enhancement may be necessary depending on the results of further protected species survey.

7.3 Protected species survey

7.3.1 Where habitat suitable for protected species has been identified, then further survey is likely to be necessary to ascertain whether the protected species is present and using the habitat. To this end the following protected species survey is recommended;

- Great crested newt survey on waterbody within the site, ditches holding water and adjacent water bodies if access can be arranged. In order to meet Natural England guidelines the survey must be carried out in the period late March to June inclusive, with at least two survey events between mid-April and mid-May.
- Badger survey three months prior to any development activity is recommended to allow any necessary licensed works to take place.
- If any of the trees identified as having low or medium bat roost potential will be impacted upon by the proposed development, then these trees should be subject to activity and emergence survey to ascertain usage and allow mitigation to be planned
- If the integrity of hedgerows is likely to be impacted upon by the proposed development, then these should be subject to bat activity survey to ascertain usage for foraging and commuting allowing any necessary mitigation to be planned.

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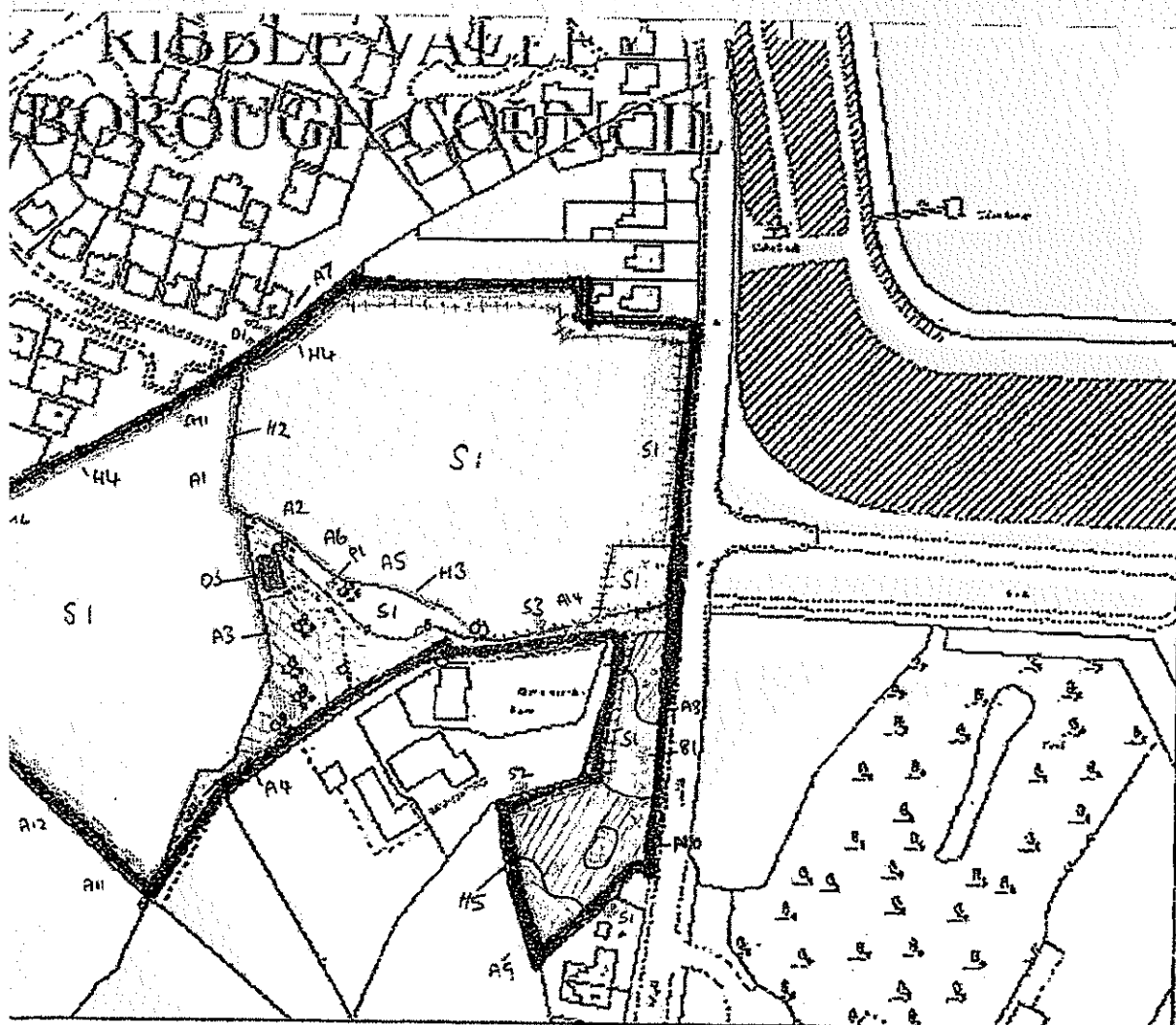
FIGURE 1

Phase 1 Habitat Survey

Agricultural land adjacent to 110 Preston Road, Longridge
Key to Figures

Colour	Vegetation community
SI	Poor semi-improved grassland
SI	Semi-improved neutral grassland
	Native, species-poor hedgerow
	Dry ditch
	Ditch with water
	Pond
	Continuous native scrub
X	Scattered scrub
	Tall ruderal vegetation
	Ash tree
	Other tree (FM = Field maple, B = Beech, O = English oak, S = Sycamore, P = pear)
	Bare ground
	Post and rail fence
	Buildings

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al land to 110 Preston Road, Longridge

Grimbaldston Farm

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APPENDIX 1

**CITATION FOR ALSTON RESERVOIRS BIOLOGICAL
HERITAGE SITE**



Lancashire County Heritage Sites

Biological Heritage Site

**Biological Heritage Sites
Partnership:**

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Natural England

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Site Name: Alston Reservoirs

Site Ref: 63NW01

Approved: 08 September 1993

Area (ha): 48.22

Date written/last updated: 01 September 2002

Grid Ref: SD606362

Owner/Occupier: Private

Districts:
Ribbles Valley

Parishes:
Longridge

Description:

The site comprises two neighbouring reservoirs located on the south-eastern side of Longridge. Both the reservoirs themselves and their embankments are included in the site. The site is of both ornithological and botanical importance.

The reservoirs support a high diversity and good numbers of wintering wildfowl. Wildfowl species include mallard, pochard, tufted duck, goldeneye and goosander. Non-wildfowl species include lapwing, black-headed, lesser black-headed and common gulls. Birds use these reservoirs in conjunction with the nearby Spade Mill Reservoirs (BHS 63NW03).

The steeply sloping grass embankments surrounding the reservoirs support species-rich grassland. The grassland includes the following plant species: common knapweed, oxeye daisy, great burnet, greater burnet-saxifrage, selfheal, lady's mantle, cat's-ear, meadow vetchling, common bird's-foot-trefoil, bugle, rough hawkbit, eyebright, primrose, early-purple orchid, common twayblade, adder's tongue, quaking-grass, meadowsweet, glaucous sedge and rushes.

Guideline(s) for Site Selection:

Grassland (Gr3)

Birds (Bi8)

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Other Information/Comments:

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Lancashire County Heritage Sites

Biological Heritage Site

Alston Reservoirs

**Site Boundary**

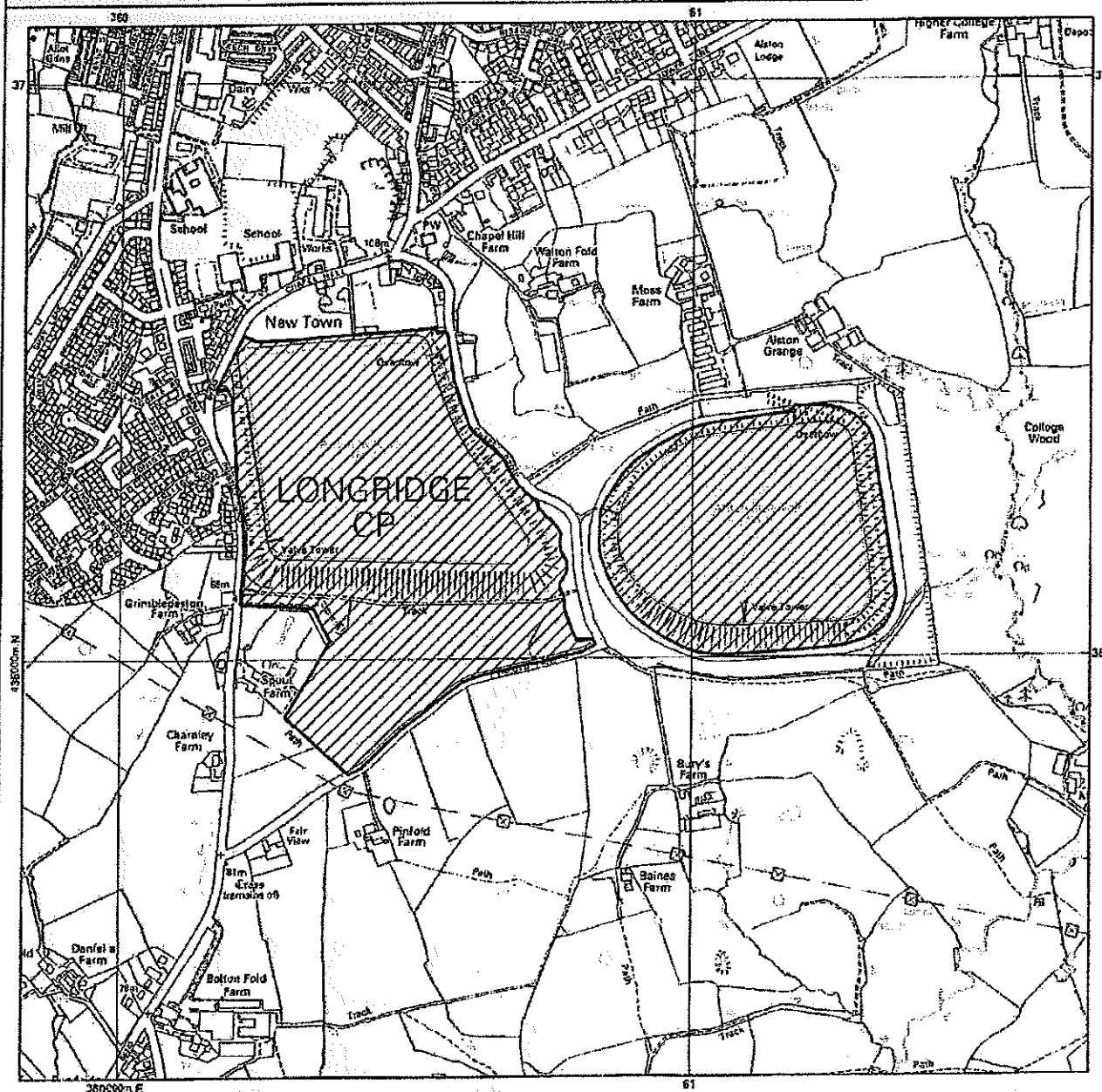
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This map shows only the boundary of the Biological Heritage Site named above. It does not show any other designated sites which may occur within the area covered by the map

Ref No. 63NW01

Biological Heritage Sites Partnership

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 Manchester and North Merseyside
Nature in England



Grid ref. SD606362

Scale 1:10,000

Site approved 08/09/1993

Map 1 of 1

Boundary revised 08/09/1993

Date of Map 29/11/10



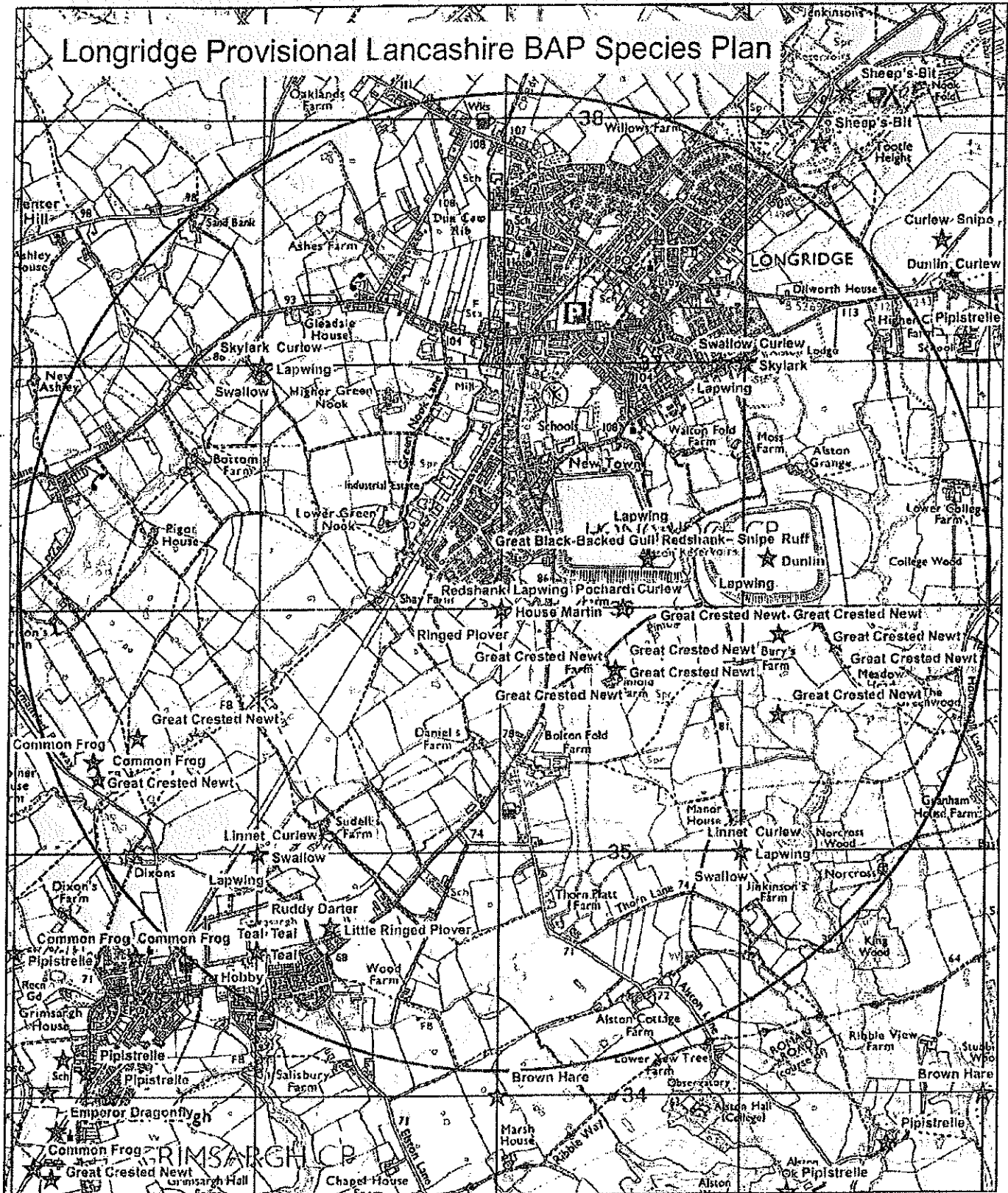
Lancashire
 County Council



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APPENDIX 2
DESK STUDY DATA

Longridge Provisional Lancashire BAP Species Plan



Legend

- Buffer_of_Longridge
- Longridge
- Lancashire_BAP_Provisional_Long_List

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flowering plant	Rubus graminifolius	Bramble	1997.00	SD5834
flowering plant	Rubus nemoralis	Bramble	1997.00	SD5834
flowering plant	Rubus robiae	Bramble	1997.00	SD5834
flowering plant	Rubus sprongii	Bramble	1997.00	SD5834
flowering plant	Rubus tuberculatus	Bramble	1997.00	SD5834
flowering plant	Rubus tuberculatus	Bramble	1997.00	SD5834
flowering plant	Rubus dasycarpus	Bramble	1996.00	SD5935
flowering plant	Rubus warrenii	Bramble	1996.00	SD5935
flowering plant	Rubus dasycarpus	Bramble	1997.00	SD5938
flowering plant	Rubus prinosus	Bramble	1997.00	SD5938
flowering plant	Rubus sprongii	Bramble	1997.00	SD5938
flowering plant	Rubus vestitus	Bramble	1997.00	SD5938
flowering plant	Rubus dasycarpus	Bramble	1996.00	SD6034
flowering plant	Rubus echinoides	Bramble	1996.00	SD6034
flowering plant	Rubus lindlarianus	Bramble	1996.00	SD6034
flowering plant	Iris pseudacorus	Yellow Iris	2009.00	SD582763997
flowering plant	Juncus effusus	Soft-rush	2009.00	SD582763997
flowering plant	Petasites hybridus	Butterbur	2009.00	SD582763997
flowering plant	Plantago major	Greater Plantain	2009.00	SD582763997
flowering plant	Ranunculus acris	Meadow Buttercup	2009.00	SD582763997
flowering plant	Ranunculus repens	Creeping Buttercup	2009.00	SD582763997
flowering plant	Rumex obtusifolius	Broad-Leafed Dock	2009.00	SD582763997
flowering plant	Taraxacum officinale agg.	Dandelion	2009.00	SD582763997
flowering plant	Veronica beccabunga	Brooklime	2009.00	SD582763997
flowering plant	Veronica chamaedrys	Gemander Speedwell	2009.00	SD582763997
flowering plant	Alopecurus pratensis	Meadow Foxtail	2009.00	SD582763997
flowering plant	Anthriscus sylvestris	Cow Parsley	2009.00	SD582763997
flowering plant	Arrhenatherum elatius	False Oat-Grass	2009.00	SD582763997

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	2006.00	SD582763097
low-Herb	2009.00	SD582763097
Ir-Fern	2009.00	SD5882763397
Plover	2008.00	SD590346
Plover	2009.00	SD580346
	2009.00	SD590346
	2010.00	SD590346
Plover	2010.00	SD590346
	2008.00	SD590346
	2006.00	SD590346
	2006.00	SD590346
	2006.00	SD590346
	2006.00	SD590346
I	2008.00	SD590346
	2008.00	SD590346
	2008.00	SD590346
I	1997.00	SD58343534
-Marigold	1997.00	SD58343534
ter-Starwort	1997.00	SD58343534
In	1897.00	SD58343534
4-Mo-Not	1997.00	SD58343534
low-Grass	1997.00	SD58343534
ix	1997.00	SD58343534
qa	1897.00	SD58343531
4-Mo-Not	1997.00	SD58343531
ike-Rush	1997.00	SD58343531
ot-Grass	1997.00	SD58343531
ilecups	1997.00	SD59343531
occurum	1897.00	SD58343531
	1897.00	SD58343531
ursh-Bedsraw	1997.00	SD58343531
-Grass	1997.00	SD58343531
rwort	1997.00	SD58343531
nt	1897.00	SD58343531
low-Grass	1997.00	SD58343531
il	1997.00	SD58343531
Foot-Trefoil	1997.00	SD58343531
oss	1997.00	SD58343531
	1997.00	SD58343531
	1994.00	SD59093424
	1994.00	SD59093424
	1994.00	SD59093424
	1994.00	SD59093424
s	1994.00	SD59093424
	1994.00	SD59093424
ry	1994.00	SD59093424
Fern	1994.00	SD59093424
	1994.00	SD59093424
oot-Grass	1990.00	SD583353
	1990.00	SD583353
	1990.00	SD583353
's-foot-trefoil	1990.00	SD583353
l-Me-Not	1990.00	SD583353
ilecups	1990.00	SD583353
ir-Reed	1990.00	SD583353
h	1984.00	SD583353
	1984.00	SD583353
in	1984.00	SD583353
ir-Me-Not	1994.00	SD583353

	2002.00	SD606362
stercup	2002.00	SD606362
	2002.00	SD606362
ord	2002.00	SD606362
2d Duck	2002.00	SD606362
st	2002.00	SD606362
agg.	2002.00	SD606362
	2002.00	SD606362
st	2002.00	SD606362
	2002.00	SD606362
	1991.00	SD606365
	1990.00	SD611362
k	1990.00	SD611362
	1990.00	SD611362
	1990.00	SD611362
vor	1990.00	SD611362
	1990.00	SD611362
vor	1990.00	SD611362
	1990.00	SD611362
1 Duck	1990.00	SD611362
k-Backed Gull	1990.00	SD611362
	1990.00	SD611362
	1990.00	SD611362
	1990.00	SD611362
oppor	1990.00	SD611362
	1990.00	SD611362
	1990.00	SD611362
andpor	1990.00	SD611362
th	1994.00	SD606362
napwood	1979.00	SD6042736133
y	1979.00	SD6042736133
stot	1979.00	SD6042736133
	1988.00	SD615362
on	1988.00	SD615362
	1988.00	SD615362
	1988.00	SD615362
	1990.00	SD618375
	1990.00	SD618375
	1990.00	SD618375
d Goose	1990.00	SD618375
vor	1990.00	SD618375
	1990.00	SD618375
k-Backed Gull	1990.00	SD618375
	1990.00	SD618375
	1990.00	SD618375
ed Grebe	1990.00	SD618375
k-Backed Gull	1990.00	SD618375
	1979.00	SD618373
	1979.00	SD618373
Crane's-Bill	1979.00	SD618373
gg	1979.00	SD618373
y	1979.00	SD618373
	2004.00	SD590346
	2004.00	SD590346
st	2004.00	SD590346
Grass	2004.00	SD590346
	2004.00	SD590346
otto	2004.00	SD590346

flowering plant	Veronica chamaedrys	Germander Speedwell	2004.00	SD590346
flowering plant	Vicia cracca	Tufted Vetch	2004.00	SD590346
flowering plant	Senecio jacobaea	Common Ragwort	2004.00	SD590346
flowering plant	Solanum dulcamara	Bittersweet	2004.00	SD590346
flowering plant	Sorghastrum nutans	Branched Bur-Reed	2004.00	SD590346
flowering plant	Stellaria graminea	Lesser Stitchwort	2004.00	SD590346
flowering plant	Filipendula ulmaria	Meadowsweet	2004.00	SD590346
flowering plant	Fragaria vesca	Wild Strawberry	2004.00	SD590346
flowering plant	Fraxinus excelsior	Ash	2004.00	SD590346
flowering plant	Glyceria v. pedicellata	Hybrid Sweet-Grass	2004.00	SD590346
flowering plant	Hieracium sphondylium	Horweed	2004.00	SD590346
flowering plant	Holcus lanatus	Yorkshire-Fog	2004.00	SD590346
flowering plant	Hyacinthoides hispanica	Spanish Bluebell	2004.00	SD590346
flowering plant	Hypochaeris radicata	Cat's-Ear	2004.00	SD590346
flowering plant	Juncus articulatus	Jointed Rush	2004.00	SD590346
flowering plant	Juncus bulbosus	Toad Rush	2004.00	SD590346
flowering plant	Juncus effusus	Soft-Rush	2004.00	SD590346
flowering plant	Juncus inflexus	Hard Rush	2004.00	SD590346
flowering plant	Lamina major	Common Duckweed	2004.00	SD590346
flowering plant	Leonodon autumnalis	Autumn Hawkbit	2004.00	SD590346
flowering plant	Leonodon hispidus	Rough Hawkbit	2004.00	SD590346
flowering plant	Leucanthemum vulgare	Oxeye Daisy	2004.00	SD590346
flowering plant	Lilium californicum	Fairy Flax	2004.00	SD590346
flowering plant	Lisiera ovata	Common Twayblade	2004.00	SD590346
flowering plant	Lolium perenne	Perennial Rye-Grass	2004.00	SD590346
flowering plant	Lolus comiculatus	Common Bird's-Foot-Trefoil	2004.00	SD590346
flowering plant	Luzula campestris	Field Wood-Rush	2004.00	SD590346
flowering plant	Myosotis arvensis	Field Forget-Me-Not	2004.00	SD590346
flowering plant	Myosotis laxa	Tufted Forget-Me-Not	2004.00	SD590346
flowering plant	Myriophyllum spicatum	Spiker Water-Milfoil	2004.00	SD590346
flowering plant	Oenothera maculosa	Early Purple Ornith	2004.00	SD590346
flowering plant	Orchidea amphibola	Amphibious Bistort	2004.00	SD590346
flowering plant	Prunella vulgaris	Selfheal	1979.00	SD618373
insect - true fly (Diptera)	Vicia sepium	Bush Vetch	1979.00	SD618373
insect - true fly (Diptera)	Limonia rubeculosa	Limonia rubeculosa	2003.00	SD618346
insect - true fly (Diptera)	Limonia macrostigma	Limonia macrostigma	2003.00	SD618346
insect - true fly (Diptera)	Lipsothrix remota	Lipsothrix remota	2003.00	SD618346
insect - true fly (Diptera)	Epiphragma ocellaris	Epiphragma ocellaris	2003.00	SD618346
insect - true fly (Diptera)	Lonchopora nitidifrons	Lonchopora nitidifrons	2003.00	SD618346
insect - true fly (Diptera)	Epiphragma ocellaris	Epiphragma ocellaris	2003.00	SD618346
insect - true fly (Diptera)	Limonia rubeculosa	Limonia rubeculosa	2003.00	SD618346
insect - true fly (Diptera)	Rhinga campestris	Rhinga campestris	2003.00	SD618346
flowering plant	Acer pseudoplatanus	Sycamore	2004.00	SD590346
flowering plant	Achillea millefolium	Yarrow	2004.00	SD590346
flowering plant	Agrostis stolonifera	Creeping Bent	2004.00	SD590346
flowering plant	Aquilegia reptans	Bugle	2004.00	SD590346
flowering plant	Achemilla glehna	Lady's-Mantle	2004.00	SD590346
flowering plant	Rubus fruticosus agg.	Bramble	2004.00	SD61843548
flowering plant	Salix	Sallow	2004.00	SD61843548
flowering plant	Sambucus nigra	Elder	2004.00	SD61843548
flowering plant	Plantago lanceolata	Ribwort Plantain	2004.00	SD618355
flowering plant	Potentilla erecta	Tornetia	2004.00	SD618355
flowering plant	Prunella vulgaris	Selfheal	2004.00	SD618355
flowering plant	Ranunculus acris	Meadow Buttercup	2004.00	SD618355
flowering plant	Ranunculus repens	Creeping Buttercup	2004.00	SD618355
flowering plant	Rumex acetosella	Sheep's Sorrel	2004.00	SD618355
flowering plant	Sanguisorba officinalis	Great Burnet	2004.00	SD618355
flowering plant	Stachys officinalis	Betony	2004.00	SD618355
flowering plant	Succisa pratensis	Downy-Bit Scabious	2004.00	SD618355
flowering plant	Trifolium medium	Zigzag Clover	2004.00	SD618355
flowering plant	Trifolium repens	White Clover	2004.00	SD618355
flowering plant	Tussilago farfara	Colts-Foot	2004.00	SD618353
flowering plant	Ulex europaeus	Gorse	2004.00	SD618355

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attle	2004.00	SD616356
	2004.00	SD61643548
al-grass	2004.00	SD61643548
istle	2004.00	SD61643548
	2004.00	SD61643548
	2004.00	SD61643548
herb	2004.00	SD61643548
wherb	2004.00	SD61643548
jet	2004.00	SD61643548
	2004.00	SD61643548
	2004.00	SD61643548
eching	2004.00	SD61643548
rd's-Foot-Tretol	2004.00	SD61643548
	2004.00	SD61643548
ub	2004.00	SD61643548
ib-Rush	2004.00	SD61643548
stle	2004.00	SD61643548
h	2004.00	SD61643548
	2006.00	SD6090351
st	2006.00	SD6090351
xail	2006.00	SD6090351
al-grass	2006.00	SD6090351
y	2006.00	SD6090351
grass	2006.00	SD6090351
	2006.00	SD6090351
or	2006.00	SD6090351
edge	2006.00	SD6090351
	2006.00	SD6090351
apwood	2006.00	SD6090351
ouse-Ear	2006.00	SD6090351
	2006.00	SD6090351
in	2006.00	SD6090351
Beetle	2006.00	SD6090351
	2006.00	SD6090351
ue Damsell'y	2006.00	SD6090351
ret	2006.00	SD6090351
	2006.00	SD6090351
or	2006.00	SD6090351
	2006.00	SD6090351
Ladybird	2006.00	SD6090351
	2006.00	SD6090351
il-Grass	2006.00	SD6090351
	2006.00	SD6090351
og	2006.00	SD6090351
h	2006.00	SD6090351
	2006.00	SD6090351
ush	2006.00	SD6090351
	2006.00	SD6090351
atching	2006.00	SD6090351
y	2006.00	SD6090351
ly-Grass	2006.00	SD6090351
Ind's-Foot-Tretol	2006.00	SD6090351
Tretol	2006.00	SD6090351
ret	2006.00	SD6090351
	2006.00	SD6090351
apwood	2006.00	SD6090351
le	2006.00	SD6090351
g's-Tail	2006.00	SD6090351
t	2006.00	SD6090351

ape	1988.00	SD613348
reaved Golden-Sa	1988.00	SD613348
	1988.00	SD613341
	2002.00	SD613341
	2002.00	SD613341
stort	2002.00	SD606362
	2002.00	SD606362
Hawthorn	2002.00	SD606362
not-Sailfin	2002.00	SD606362
rtain	2002.00	SD606362
rouefol	2002.00	SD606362
wberry	2002.00	SD606362
otto	2002.00	SD606362
Speedwell	2002.00	SD606362
h	2002.00	SD606362
atch	2002.00	SD606362
	1991.00	SD606365
	1991.00	SD606365
ile	1991.00	SD606365
hone	1991.00	SD606365
	1991.00	SD606365
	1991.00	SD606365
or	1991.00	SD606365
ouse-Ear	1991.00	SD606365
lowthorn	1991.00	SD606365
ter-Fern	1991.00	SD606365
	1991.00	SD606365
sat	1991.00	SD606365
orny	1991.00	SD606365
	1991.00	SD606365
1	1991.00	SD606365
aching	1991.00	SD606365
y	1991.00	SD606365
	1991.00	SD606365
wayblade	1991.00	SD606365
	1994.00	SD606362
	1994.00	SD606362
aching	1994.00	SD606362
Robt	1994.00	SD606362
y	1994.00	SD606362
ids-Foot-Trefoil	1994.00	SD606362
ue	1994.00	SD606362
ntain	1994.00	SD606362
ntain	1994.00	SD606362
	1994.00	SD606362
	1994.00	SD606362
orist	1994.00	SD606362
ol	1994.00	SD606362
agg.	1994.00	SD606362
	1994.00	SD606362
or	1994.00	SD606362
	1994.00	SD606362
d Flower	2006.00	SD590346
r	2006.00	SD590346
	2006.00	SD590346
str	2006.00	SD590346
own	2006.00	SD590346
	2006.00	SD590346
dy	2006.00	SD590346
	2006.00	SD590346
al	2006.00	SD590346

Insect - butterfly	<i>Lycaena phlaeas</i>	Small Copper	2008.00	SD590346
Insect - butterfly	<i>Thymelicus sylvestris</i>	Small Skipper	2008.00	SD590346
Insect - butterfly	<i>Aglais urticae</i>	Small Tortoiseshell	2006.00	SD590346
Insect - butterfly	<i>Lasioommata megera</i>	Was	2006.00	SD590346
Insect - dragonfly (Odonata)	<i>Anax imperator</i>	Emperor Dragonfly	2006.00	SD590346
Insect - dragonfly (Odonata)	<i>Orthetrum cancellatum</i>	Black-Tailed Skimmer	2006.00	SD590346
bird	<i>Anas penelope</i>	Wigeon	2006.00	SD590346
bird	<i>Aythya fuligula</i>	Tufted Duck	2006.00	SD590346
bird	<i>Anas crecca</i>	Teal	2006.00	SD590346
bird	<i>Anas platyrhynchos</i>	Shoveler	2006.00	SD590346
bird	<i>Aythya marila</i>	Scaup	2006.00	SD590346
bird	<i>Aythya ferina</i>	Pochard	2006.00	SD590346
bird	<i>Anas acuta</i>	Pintail	2006.00	SD590346
bird	<i>Aythya fuligula</i>	Tufted Duck	2006.00	SD590346
bird	<i>Sylvia communis</i>	Whitethroat	2006.00	SD590346
Insect - dragonfly (Odonata)	<i>Anax imperator</i>	Emperor Dragonfly	2006.00	SD590346
Insect - dragonfly (Odonata)	<i>Orthetrum cancellatum</i>	Black-Tailed Skimmer	2006.00	SD590346
bird	<i>Falco tinnunculus</i>	Kestrel	2009.00	SD590346
terrestrial mammal	<i>Myotis noctula</i>	Noctule	2009.00	SD590346
terrestrial mammal	<i>Myotis daubentonii</i>	Daubenton's Bat	2009.00	SD590346
amphibian	<i>Triturus vulgaris</i>	Smooth Newt	2009.00	SD590346
amphibian	<i>Rana temporaria</i>	Common Frog	2009.00	SD590346
amphibian	<i>Bufo bufo</i>	Common Toad	2009.00	SD590346
flowering plant	<i>Galium aparine</i>	Daisy	1979.00	SD6034036597
flowering plant	<i>Cardamine hirsuta</i>	Wavy Bitter-Cress	1979.00	SD6034036597
flowering plant	<i>Carex</i>	Sedge	1979.00	SD6034036597
herbaceous	<i>Equisetum palustre</i>	Marsh Horsetail	1979.00	SD6034036597
flowering plant	<i>Geranium pratense</i>	Himalayan Crane's-Bill	1979.00	SD6034036597
flowering plant	<i>Juncus effusus</i>	Soft-rush	1979.00	SD6034036597
flowering plant	<i>Ranunculus acris</i>	Meadow Buttercup	1979.00	SD6034036597
flowering plant	<i>Agrostis capillaris</i>	Common Bent	1988.00	SD5959636113
flowering plant	<i>Aster glaberrimus</i>	Alder	1988.00	SD5959636113
flowering plant	<i>Centaurea nictitans</i>	Common Knapweed	1988.00	SD5959636113
flowering plant	<i>Dactylis glomerata</i>	Cock's-Foot	1988.00	SD5959636113
flowering plant	<i>Lithospermum latifolium</i>	Meadow Vetchling	1988.00	SD5959636113
flowering plant	<i>Ranunculus ficaria</i>	Lesser Celandine	2002.00	SD590347
flowering plant	<i>Geranium dissectum</i>	Cut-Leaved Crane's-Bill	2002.00	SD590347
flowering plant	<i>Viola sibirica</i>	Common Dog-Violet	2002.00	SD590347
flowering plant	<i>Alopecurus pratensis</i>	Meadow Foxtail	2002.00	SD590347
flowering plant	<i>Primula x polyantha</i>	False Oenothera	2002.00	SD590347
flowering plant	<i>Pulsatilla vulgaris</i>	Cowslip	2002.00	SD590347
flowering plant	<i>Vicia cracca</i>	Tufted Vetch	2002.00	SD590347
flowering plant	<i>Carex caryophyllacea</i>	Spring Sedge	2002.00	SD590347
flowering plant	<i>Fragaria vesca</i>	Wild Strawberry	2002.00	SD590347
flowering plant	<i>Cerastium triviale</i>	Common Mouse-Ear	2002.00	SD590347
flowering plant	<i>Agrostis reptans</i>	Bugle	2002.00	SD590347
flowering plant	<i>Stellaria vulgaris</i>	Bog Stitchwort	1997.00	SD58503458
amphibian	<i>Triturus cristatus</i>	Great Crested Newt	1997.00	SD58503458
flowering plant	<i>Juncus effusus</i>	Hard Rush	1997.00	SD58503458
flowering plant	<i>Iris pseudacorus</i>	Yellow Iris	1997.00	SD58503458
flowering plant	<i>Carex rigida</i>	Common Sedge	1997.00	SD58503458
flowering plant	<i>Bidens cornuta</i>	Nodding Bur-Marigold	1997.00	SD58503458
amphibian	<i>Triturus</i>	Newt	1997.00	SD58503458
flowering plant	<i>Ranunculus sceleratus</i>	Cefely-Leaved Buttercup	1997.00	SD58503458
flowering plant	<i>Juncus articulatus</i>	Jointed Rush	1997.00	SD58503458
flowering plant	<i>Lotus pedunculatus</i>	Large Bird's-Foot-Trefoil	1997.00	SD58503458
flowering plant	<i>Lichnis fls-ocul</i>	Ragged Robin	1997.00	SD58503458
amphibian	<i>Rana temporaria</i>	Common Frog	1997.00	SD58503458
flowering plant	<i>Lemna minor</i>	Ivy-Leaved Duckweed	1997.00	SD58503458
flowering plant	<i>Potamogeton</i>	Potamogeton	1997.00	SD58503458
flowering plant	<i>Ranunculus repens</i>	Crested Buttercup	1997.00	SD58503458
moss	<i>Sphagnum imbricatum</i>	Sphagnum imbricatum	1997.00	SD58503458
flowering plant	<i>Glycyrrhiza glabra</i>	Small Sweet-Grass	1997.00	SD58503458

tercup	1968.00	SD615362
	1994.00	SD583353
dwelt	1994.00	SD583353
nt	1994.00	SD584354
il	1994.00	SD584354
ater-Starwort	1994.00	SD584354
old	1994.00	SD584354
Cress	1994.00	SD584354
ir	1994.00	SD584354
iko-Rush	1994.00	SD584354
wherb	1994.00	SD584354
raw	1994.00	SD584354
oot-Grass	1994.00	SD584354
	1994.00	SD584354
h	1994.00	SD584354
	1994.00	SD584354
h-Mo-Nol	1994.00	SD583353
ow-Grass	1994.00	SD583353
twort	1994.00	SD583353
tercup	1994.00	SD583353
ur-Road	1994.00	SD583353
ort	1994.00	SD583353
	1994.00	SD583353
nt	1994.00	SD583353
il	1994.00	SD583353
ater-Starwort	1994.00	SD583353
Cress	1994.00	SD583353
ir	1994.00	SD583353
wherb	1994.00	SD583353
raw	1994.00	SD583353
oot-Grass	1994.00	SD583353
kbit	2006.00	SD607350
rayblade	2006.00	SD607350
rf's-Fad-Trelot	2006.00	SD607350
stort	2006.00	SD607350
ntain	2006.00	SD607350
	2006.00	SD607350
er	2006.00	SD607350
Speedwell	2006.00	SD607350
	2006.00	SD6036
	2006.00	SD6036
	2006.00	SD6036
stall	2006.00	SD6036
y	2006.00	SD6036
edge	2006.00	SD6036
z	2006.00	SD6036
or	2004.00	SD590346
	2004.00	SD590346
ue	2004.00	SD590346
Hawkwood	2004.00	SD590346
not-Saxifrage	2004.00	SD590346
	1996.00	SD6037
	1997.00	SD6138
	1997.00	SD6138
	1997.00	SD6138
	1997.00	SD6138
	1997.00	SD6138
	1997.00	SD6138
	1997.00	SD6138
	1997.00	SD6138
	1997.00	SD6138
	1997.00	SD6138

	Rubus cissburiensis var. brometennacymensis DP Earl MS	Rubus cissburiensis var. brei	1996.00	SD5939
	Rubus lancasterensis DP Earl MS	Rubus lancasterensis DP Earl	1996.00	SD5939
	Rubus wheatonii DP Earl MS	Rubus wheatonii DP Earl MS	1996.00	SD5939
	Rubus cissburiensis var. brometennacymensis DP Earl MS	Rubus cissburiensis var. brei	1997.00	SD5834
	Rubus lancasterensis DP Earl MS	Rubus lancasterensis DP Earl	1997.00	SD5834
	Rubus cissburiensis var. brometennacymensis DP Earl MS	Rubus cissburiensis var. brei	1997.00	SD5934
bird	Columba palumbus	Woodpigeon	1998.00	SD630
bird	Hirundo rustica	Swallow	1998.00	SD630
bird	Parus major	Great Tit	1998.00	SD630
terrestrial mammal	Lepus europaeus	Brown Hare	2000.00	SD6034
flowering plant	Jasione montana	Sheep's-bit	1968.00	SD613078
flowering plant	Jasione montana	Sheep's-bit	1968.00	SD614381
terrestrial mammal	Pipistrellus pipistrellus	Pipistrelle	1884.00	SD619371
terrestrial mammal	Pipistrellus pipistrellus	Pipistrelle	1988.00	SD609370
terrestrial mammal	Pipistrellus pipistrellus	Pipistrelle	1990.00	SD60341
terrestrial mammal	Pipistrellus pipistrellus	Pipistrelle	1990.00	SD60346
terrestrial mammal	Pipistrellus pipistrellus	Pipistrelle	1991.00	SD684340
flowering plant	Crataegus monogyna	Hawthorn	2002.00	SD590347
flowering plant	Sambucus nigra	Elder	2002.00	SD590347
flowering plant	Prunus spinosa	Blackthorn	2002.00	SD590347
flowering plant	Myrtalis persicis	Dog's Mercury	2002.00	SD590347
bird	Motacilla alba subsp. variegata	Pied Wagtail	1999.00	SD53X
bird	Corvus monedula	Jackdaw	1999.00	SD53X
bird	Phasianus colchicus	Pheasant	1999.00	SD53X
bird	Emberiza hortulana	Fieldfare	1999.00	SD53X
bird	Troglodytes troglodytes	Wren	1999.00	SD53X
bird	Corvus corone subsp. corone	Carion Crow	1999.00	SD53X
bird	Sturnus vulgaris	Starling	1999.00	SD53X
bird	Numenius arquata	Curlow	1999.00	SD53X
bird	Turdus philomelos	Song Thrush	1999.00	SD53X
bird	Vanelius vanelius	Lapwing	1999.00	SD53X
bird	Turdus merula	Blackbird	1999.00	SD53X
bird	Passer domesticus	House Sparrow	1999.00	SD53X
bird	Fulica atra	Coot	1999.00	SD53X
bird	Haematopus ostralegus	Oystercatcher	1999.00	SD53X
bird	Eritacus rubecula	Robin	1999.00	SD53X
bird	Hirundo rustica	Swallow	1999.00	SD53X
bird	Bucephala clangula	Goldeneye	1999.00	SD618375
bird	Colinus alpha	Dunlin	1999.00	SD618375
bird	Colinus ferruginea	Curlow Sandpiper	1999.00	SD618375
bird	Numenius arquata	Curlow	1999.00	SD618375
bird	Fulica atra	Coot	1999.00	SD618375
bird	Actitis hypoleucos	Common Sandpiper	1999.00	SD618375
bird	Larus canus	Common Gull	1999.00	SD618375
bird	Larus ridibundus	Black-Headed Gull	1999.00	SD618375
bird	Ardea fuligula	Tufted Duck	1999.00	SD618375
bird	Tringa totanus	Redshank	1999.00	SD618375
bird	Haematopus ostralegus	Oystercatcher	1999.00	SD618375
bird	Charadrius dubius	Little Ringed Plover	1999.00	SD618375
bird	Vanelius vanelius	Lapwing	1999.00	SD618375
bird	Numenius arquata	Curlow	1999.00	SD618375
bird	Larus ridibundus	Black-Headed Gull	1999.00	SD618375
bird	Gallinula chloropus	Moorhen	1999.00	SD63C
bird	Prunella modularis	Dunnock	1999.00	SD63C
bird	Columba palumbus	Woodpigeon	1999.00	SD63C
bird	Turdus viscivorus	Mistle Thrush	1999.00	SD63C
bird	Numenius arquata	Curlow	1999.00	SD63C
bird	Turdus merula	Blackbird	1999.00	SD63C
bird	Sturnus vulgaris	Starling	1999.00	SD63C
bird	Passer domesticus	House Sparrow	1999.00	SD63C

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se	1998.00	SD63C
v	1998.00	SD63C
	1998.00	SD63C
	1999.00	SD63C
	1999.00	SD63C
	1999.00	SD63C
	1999.00	SD63C
	1999.00	SD63C
	2000.00	SD63C
	2008.00	SD590346
	2008.00	SD590346
	2008.00	SD590346
	2008.00	SD590346
Plover	2006.00	SD590346
siper	2006.00	SD590346
	2006.00	SD590346
	2006.00	SD590346
yf	2006.00	SD590346
	2006.00	SD590346
Plover	2006.00	SD590346
	1990.00	SD606360
	1990.00	SD606360
d	1990.00	SD606360
d Gull	1990.00	SD606360
Backed Gull	1990.00	SD606362
	1990.00	SD606362
d Grebe	1990.00	SD606362
	1994.00	SD606362
c	1994.00	SD606362
ress	1994.00	SD606362
apwood	1994.00	SD606362
ts-Tail	1994.00	SD606362
	2006.00	SD590346
	2008.00	SD590346
	2008.00	SD590346
f	2006.00	SD590346
	2006.00	SD590346
g	2006.00	SD590346
for	2006.00	SD590346
	2006.00	SD590346
	2006.00	SD590346
l	2006.00	SD590346
	2006.00	SD590346
	2006.00	SD590346
	2006.00	SD590346
bter	1997.00	SD63E
	1997.00	SD63E
	1997.00	SD63E
itor	1997.00	SD63E
	1997.00	SD63E
er	1997.00	SD63E
	1997.00	SD63E
row	1997.00	SD63E
d Grebe	1997.00	SD63E
	1997.00	SD63E
w-Cress	1997.00	SD63E
	1997.00	SD63E
ittercup	2004.00	SD590346
nd Buttercup	2004.00	SD590346
	2004.00	SD590346

flowering plant	<i>Rumex acetosa</i>	Common Sorrel	2004.00	SD589348
flowering plant	<i>Rumex crispus</i>	Curl'd Dock	2004.00	SD589346
flowering plant	<i>Rumex obtusifolius</i>	Broad-Leaved Dock	2004.00	SD589346
flowering plant	<i>Rumex sanguineus</i>	Wood Dock	2004.00	SD589346
flowering plant	<i>Sagina procumbens</i>	Sea Purswort	2004.00	SD589346
flowering plant	<i>Salix alba</i>	White Willow	2004.00	SD589346
flowering plant	<i>Salix caprea</i>	Goat Willow	2004.00	SD589346
flowering plant	<i>Salix cinerea</i> subsp. <i>oleifolia</i>	Rusky Willow	2004.00	SD589346
flowering plant	<i>Salix fragilis</i>	Crack Willow	2004.00	SD589346
flowering plant	<i>Salix viminalis</i>	Osier	2004.00	SD589346
flowering plant	<i>Salix x reichardtii</i>	Willow	2004.00	SD589346
flowering plant	<i>Sanguisorba officinalis</i>	Great Burnet	2004.00	SD589346
flowering plant	<i>Luzula campestris</i>	Field Wood-Rush	2006.00	SD6036
flowering plant	<i>Medicago lupulina</i>	Black Medick	2006.00	SD6036
flowering plant	<i>Pedicularis bicolor</i>	Common Blkroot	2006.00	SD6036
flowering plant	<i>Phalaris arundinacea</i>	Reed Canary-Grass	2006.00	SD6036
flowering plant	<i>Plantago lanceolata</i>	Plantain	2006.00	SD6036
flowering plant	<i>Polygonum aviculare</i>	Knotgrass	2006.00	SD6036
flowering plant	<i>Prunella vulgaris</i>	Selfheal	2006.00	SD6036
flowering plant	<i>Ranunculus acris</i>	Meadow Buttercup	2006.00	SD6036
flowering plant	<i>Ranunculus ficaria</i>	Lesser Celandine	2006.00	SD6036
flowering plant	<i>Ranunculus repens</i>	Creeping Buttercup	2006.00	SD6036
flowering plant	<i>Rumex acetosa</i>	Common Sorrel	2006.00	SD6036
flowering plant	<i>Rumex crispus</i>	Curl'd Dock	2006.00	SD6036
flowering plant	<i>Rumex obtusifolius</i>	Broad-Leaved Dock	2006.00	SD6036
flowering plant	<i>Sagina procumbens</i>	Sea Purswort	2006.00	SD6036
flowering plant	<i>Salix caprea</i>	Goat Willow	2006.00	SD6036
flowering plant	<i>Leucanthemum vulgare</i>	Osprey Daisy	2006.00	SD6036
flowering plant	<i>Lolium perenne</i>	Perennial Ryegrass	2006.00	SD6036
flowering plant	<i>Lotus corniculatus</i>	Common Bird's-Foot-Trefoil	2006.00	SD6036
flowering plant	<i>Pimpinella major</i>	Greater Burnt-Saxifrage	2006.00	SD6036
flowering plant	<i>Plantago lanceolata</i>	Plantain	2006.00	SD6036
flowering plant	<i>Poa trivialis</i>	Rough Meadow-Grass	2006.00	SD6036
flowering plant	<i>Prunella vulgaris</i>	Selfheal	2006.00	SD6036
flowering plant	<i>Quercus</i>	Oak	2006.00	SD6036
flowering plant	<i>Ranunculus acris</i>	Meadow Buttercup	2006.00	SD6036
flowering plant	<i>Ranunculus bulbosus</i>	Bulbous Buttercup	2006.00	SD6036
flowering plant	<i>Ranunculus repens</i>	Creeping Buttercup	2006.00	SD6036
flowering plant	<i>Rubus idaeus</i>	Bramble	2006.00	SD6036
flowering plant	<i>Rumex acetosa</i>	Common Sorrel	2006.00	SD6036
flowering plant	<i>Sanguisorba officinalis</i>	Great Burnet	2006.00	SD6036
flowering plant	<i>Taraxacum officinale</i> agg.	Dandelion	2006.00	SD6036
flowering plant	<i>Centaurea nigra</i>	Common Knapweed	2006.00	SD6036
flowering plant	<i>Cerastium fontanum</i>	Common Mouse-Ear	2006.00	SD6036
flowering plant	<i>Cirsium arvense</i>	Crooping Thistle	2006.00	SD6036
flowering plant	<i>Cirsium palustre</i>	Marsh Thistle	2006.00	SD6036
flowering plant	<i>Cirsium vulgare</i>	Spear Thistle	2006.00	SD6036
flowering plant	<i>Crepis capillaris</i>	Smooth Hawk's-Head	2006.00	SD6036
flowering plant	<i>Cynurus cristatus</i>	Crested Dog's-Tail	2006.00	SD6036
flowering plant	<i>Dactylis glomerata</i>	Cock's-Foot	2006.00	SD6036
flowering plant	<i>Doszschampsia caespitosa</i>	Tufted Hair-Grass	2006.00	SD6036
flowering plant	<i>Doszschampsia filiformis</i>	Wavy Hair-Grass	2006.00	SD6036
flowering plant	<i>Dryopteris dilatata</i>	Broad Buckler-Fern	2006.00	SD6036
flowering plant	<i>Eleocharis palustris</i>	Common Spike-Rush	2006.00	SD6036
flowering plant	<i>Epilobium hircutium</i>	Great Willowherb	2006.00	SD6036
flowering plant	<i>Epilobium parviflorum</i>	Hearty Willowherb	2006.00	SD6036
flowering plant	<i>Festuca pratensis</i>	Meadow Fescue	2006.00	SD6036
flowering plant	<i>Polygonum aviculare</i>	Broad-Leaved Plantain	1990.00	SD589350
flowering plant	<i>Ranunculus flammula</i>	Lesser Spewwort	1990.00	SD589350
flowering plant	<i>Senecio jacobaeus</i>	Marsh Ragwort	1990.00	SD589350
flowering plant	<i>Typha latifolia</i>	Bulrush	1990.00	SD589350
flowering plant	<i>Veronica beccabunga</i>	Brooklime	1990.00	SD589350
flowering plant	<i>Agrostis stolonifera</i>	Creeping Bent	1990.00	SD589350

ater-Starwort	1994.00	SD583353
-Cress	1994.00	SD583353
uherb	1994.00	SD683353
traw	1994.00	SD583353
oot-Grass	1994.00	SD583353
og	1994.00	SD583353
Lady's-mantle	2004.00	SD580346
ti	2004.00	SD590346
xtail	2004.00	SD580346
iond	2004.00	SD590346
at-grass	2004.00	SD580346
/	2004.00	SD580346
rass	2004.00	SD980346
	2004.00	SD590346
	2004.00	SD590346
ase	2004.00	SD590346
sh	2004.00	SD590346
es Water-Starw	2004.00	SD590346
ate-Starwort	2004.00	SD930346
er	2004.00	SD580346
	1996.00	SD6634
	1986.00	SD6034
	1996.00	SD6034
	1996.00	SD6034
	1996.00	SD6035
	1996.00	SD6035
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	1996.00	SD6035
	1996.00	SD6035
	1996.00	SD6035
	1996.00	SD6037
	1996.00	SD6037
	1996.00	SD6037
arch-Bodystaw	1997.00	SD58323538
t-Grass	1997.00	SD58323538
	1997.00	SD58323538
in-Reed	1997.00	SD58323538
ot-Me-Not	1997.00	SD58323538
bg	1997.00	SD58323538
al	1997.00	SD58323538
	1997.00	SD58323538
	1997.00	SD58323538
ater-Dropwort	1997.00	SD58323538
uckward	1997.00	SD58323538
wherd	1997.00	SD58323538
oot-Grass	1997.00	SD58323538
Grass	2004.00	SD590346
for-Fern	2004.00	SD590346
	2004.00	SD580346
pke-Flush	2004.00	SD580346
atenwied	2004.00	SD590346
illowherb	2004.00	SD580346
	2004.00	SD590346
herb	2004.00	SD580346
ed Willowherb	2004.00	SD590346
id Willowherb	2004.00	SD590346
tail	2004.00	SD580346
etail	2004.00	SD590346

flowering plant	<i>Festuca pratensis</i>	Meadow Fescue	2004.00	SD590346
flowering plant	<i>Festuca rubra</i>	Red Fescue	2004.00	SD590348

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