

**Sussex Biodiversity Record Centre
report regarding
Land at Glebe Field, Pulborough**

ESD/04/313 31/08/2004

Dr Andy Tilbrook



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Biodiversity
Record Centre**

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This report was compiled using data held at SxBRC at the time of printing. The Record Centre takes data validation very seriously, but cannot be held responsible for the accuracy of data included in this report.

Enclosed within this report is information specific to the enquiry site:

Rare Species - RSI	<input checked="" type="checkbox"/>
Protected Species - PSR	<input checked="" type="checkbox"/>
Survey Information - ESD	<input checked="" type="checkbox"/>
Map	<input checked="" type="checkbox"/>
Ancient Woodland	<input type="checkbox"/>

SNCI C98 - Middle Barn Farm meadow SNCI
H43 - Pulborough Brooks SNCI

SSSI Pulborough Brooks SSSI

Other Area of Outstanding Natural Beauty
Grazing Marsh
Special Protection Area

ORDNANCE SURVEY MAPS

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SUSSEX RARE SPECIES INVENTORY (SxRSI)

The Sussex Rare Species Inventory (SxRSI) was initiated in 1993, and now covers over 3,400 species. Species are selected according to strict criteria of rarity associated with their occurrence in Sussex. The aim is to be comprehensive for species i.e. to list the rare species of Sussex in all taxa.

The criteria for selection of species (other than birds) are listed below :-

- All species in the national Red Data Books which have ever occurred in Sussex whether extinct or not
- All Notable fauna and Nationally Scarce flora which have ever occurred in Sussex whether extinct or not
- All taxa endemic to Britain
- All taxa on the Biodiversity short list
- Internationally rare taxa cited in the Bern Convention, IUCN Red Data lists, or EU Habitats Directive which are not covered by any of the above (provisional criterion; other lists may be added later)
- County rarities

Criteria for birds are as follows :-

- All nationally rare species or county rarities that breed or have bred in Sussex including those species whose populations are declining or which have become extinct as breeders in the county.
- All species sufficiently scarce in Sussex to require written descriptions to be considered by Sussex Ornithological Society Records Committee (SOSRC)
- All species sufficiently scarce in the UK to require written descriptions to be accepted by British Birds Rarities Committee (BBRC). (Species denoted by asterisk at the British Ornithologists Union's website at: <http://www.bou.org.uk/recbrlst2.html>)
- All *Bittern* records.
- All Roosting records of *Long-eared Owl*, *Hen Harrier* and *Little Egret*.
- The following species are sufficiently scarce to have **ALL** records included rather than just confirmed or probably breeding records. *Honey Buzzard*, *Montague's Harrier*, *Goshawk*, *Spotted Crane*, *Corncrake*, *Stone Curlew*, *Long-eared Owl*, *Savi's Warbler*, *Marsh Warbler*, *Golden Oriole*, *Red-backed Shrike*, *Serin*, *Cirl Bunting*.

NB There are a number of wildfowl species (ie Ruddy Shelduck & Egyptian Goose) that fit into the 2nd and 3rd criteria but where there is a likelihood that records are of birds that have escaped from collections. Potential escapee records are not labelled.

Records for species other than birds included in SxRSI are labelled selectively to provide a clear picture of where rarities occur in Sussex.

Although the Inventory (13,400 records) forms part of a larger database of Sussex records (620,000 records) no attempt has been made to include every record for every rare species i.e. it has been designed to be comprehensive for species but representative for records. This is managed in several ways:-

- Only the most recent record is labelled at each site.

- In the RSI, closely-spaced records are only labelled at intervals of 1.0 – 1.4 Km hence these are large numbers of unlabelled records of heavily recorded species (especially at Rye Harbour, Ebernoe Common and Amberley Wildbrooks).
- This restriction does not apply to the Protected Species Register, PSR (discussed later), which therefore has many more labelled records than the RSI, for some species.
- In the case of bat records, only breeding, hibernating or roosting sites are labelled in both lists (except for a couple of extremely rare bats for which all records are labelled).
- The following species are relatively common in Sussex and are only in the RSI because they are Notable or Nationally Scarce. Only *one* record of these species is labelled per 2Km tetrad.

Round-headed Rampion	<i>Phyteuma orbiculare</i>
Frogbit	<i>Hydrocharis morus-ranae</i>
Adonis Blue	<i>Lysandra bellargus</i>
Long-winged Conehead	<i>Conocephalus discolor</i>
Door snail	<i>Macrogastra rolphii</i>
Hairy dragonfly	<i>Brachytron pratense</i>
Ruddy Darter	<i>Sympetrum sanguineum</i>
Variable Damselfly	<i>Coenagrion pulchellum</i>
White-legged Damselfly	<i>Platycnemis pennipes</i>
Downy Emerald	<i>Cordulea aenea</i>

- No records of Scots Pine, *Pinus sylvestris*, are labelled because the species, though Nationally Scarce is of dubious provenance in Sussex.

The Sussex Ornithological Society's (SOS) records are more comprehensive than those bird records held by SxBRC, therefore bird records are generally not labelled in SxRSI as this information is covered in the ESD report enclosed. SOS contact details are provided for further enquiries.

SxRSI records are updated weekly with advice and records provided by taxonomic experts.

Confidential Records

The Sussex Biodiversity Record Centre holds a few records that are confidential. Confidentiality can be for a variety of reasons but usually to benefit the site or the species. Full details of these records are not disclosed but the enquirer is referred back to the Record Centre if they need further information. Please see the end of your RSI report for the number of confidential records found within your enquiry area.

A full SxRSI Species List is available on request.

For records of rare vascular plants, bryophytes and lichens the Record Centre recommends the Sussex Rare Plant Register, compiled by the Sussex Botanical Recording Society, available from the Record Centre at £10 (inc. p&p). This gives up to date (2001) information on the distribution and status of over 400 Sussex Rare Plants, putting data from SxRSI reports into a Sussex-wide context.

CATEGORIES OF RARITY

The following is a summary, for full details see Threat category definitions and criteria for non-insect invertebrates in the British Red Data Books 3 Invertebrates other than insects (JNCC, 1991).

RDB1 Endangered. Taxa in danger of extinction. Occurs in 5 or fewer 10km squares in Britain.

RDB2 Vulnerable. Considered likely to be moved into the *Endangered* category in the near future.

RDB3 Rare. Taxa with small populations that are not at present *Endangered* or *Vulnerable*, but are at risk. Occurs in not more than 15 10km squares in Britain. Criteria may be relaxed if occupies small areas of especially vulnerable habitat.

RDB4 Out of Danger. Taxa formerly meeting the criteria of one of the above categories but now considered relatively secure.

RDB5 Endemic. Thought to occur only in Britain. Taxa in this category may be in one of the above categories or may not be threatened at all.

RDBK Insufficiently known. Suspected of falling within categories 1-3 but not enough information available to assign the species to one of the above.

Notable or Nationally Scarce. Occurs in 16-100 10km squares in Britain.

Notable A (NA) (invertebrates). Occurs in 16-30 10km squares, or 7 or fewer vice-counties.

Notable B (NB) (invertebrates). Occurs in 31-100 10km squares, or 8-20 vice-counties.

Regionally Scarce (Nr). Occurs in 5 or fewer 10km squares in a particular region of Britain. Locally determined.

CATEGORIES OF PRIORITY BIODIVERSITY ACTION PLAN SPECIES

Biodiversity UK Long List (also known as Species of Conservation Concern). A list of 1250 species meeting one or more of four criteria (endemic, in rapid decline, internationally significant, or listed in international legislation). Those species not targeted for action (i.e. not 'priority species') will be subject to monitoring.

Priority Species. Those species targeted for action through species action plans or species statements and comprising the middle and short list species.

Biodiversity UK Middle List. A subset of the long list comprising approximately 400 species which are globally threatened or have declined in the UK by more than 50% in the last 25 years. The majority of these species were the subject of species action plans under development in 1997 – 1999.

Biodiversity UK Short List. A subset of the long list comprising approximately 400 species which are globally threatened or have declined in the UK by more than 50% in the last 25 years. 114 species action plans for short list species were published in the UK Steering Group Report in 1995.

CODES AND ABBREVIATIONS USED IN SxRSI

VC 13	West Sussex (with the Watsonian boundaries of 1852)
VC 14	East Sussex (with the Watsonian boundaries of 1852)
BBCSSB	British Butterfly Conservation Society, Sussex Branch
SAMLL	Sussex Atlas of Mosses, Liverworts, and Lichens (with additions & revisions to 1994)
SPASU	Sussex Plant Atlas and Supplement
SBRS	Sussex Botanical Recording Society

EXPLANATION OF ORDNANCE SURVEY NATIONAL GRID REFERENCES

Ordnance Survey has divided the United Kingdom into 100km squares, which are each given a two letter code. East Sussex falls within the 100km grid squares of **TQ**, **TV** and **TR**. West Sussex is covered by the squares **TQ**, **SU** and **SZ**.

The digits of a *grid reference* identify a location within this 100km square. The first half gives the distance East from the western edge of the 100km square. The second half gives the distance North from the southern edge of the 100km square.

To give a grid reference, first read the two-figure number across the bottom of the map (west to east) and then the two-figure number at the side of the map (south to north). This four-figure grid reference will give the actual *kilometre square*.

This is a large area and a more accurate reference is obtained by sub dividing the kilometre square further to a six-figure reference. This is gained from using "imaginary" grid lines, further dividing the grid square into 10 from "west to east" and then from "south to north".

EXPLANATION FOR THE DINTY TETRAD SYSTEM

The DINTY system breaks up a 10km x 10km OS grid square in to 2 x 2km sub-units. The 10km ID (e.g. TQ02) is obtained by using the first digit of the x axis then the first digit of the y axis. The DINTY ID can be obtained using the diagram below.

This is a system that is often used in species recording as sometimes a recorder may wish to keep the location of a record cryptic, but finds that a 1km grid reference is too revealing.

E	J	P	U	Z
D	I	N	T	Y
C	H	M	S	X
B	G	L	R	W
A	F	K	Q	V

[-10km-]

EXPLANATION OF GRID REFERENCES ON THE ACCOMPANYING MAP

On the accompanying map with this report, a graticule or grid has been added. It is possible to orientate yourself using this grid as the horizontal (x axis) and vertical (y axis) lines on the grid are labelled. The first number on the x axis, and the first number on the y axis figures need to be considered separately from the rest of the numbers.

- 5 on the x and 1 on the y axes denotes that the corresponding 100km map sheet is TQ
- 4 on the x and 1 on the y axes denotes that the corresponding 100km map sheet is SU
- 4 on the x and 0 on the y axes denotes that the corresponding 100km map sheet is SZ
- 6 on the x and 1 on the y axes denotes that the corresponding 100km map sheet is TR
- 5 on the x and 0 on the y axes denotes that the corresponding 100km map sheet is TV

The numbers following these initial figures should be read like a normal grid reference with the horizontal followed by the vertical.



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Sussex Rare Species Inventory Land at Pulborough, West Sussex

31 August 2004 ESD/04/313 Search Area: TQ0419, TQ0519, TQ0418 and TQ0518
Report prepared for Dr Andy Tilbrook

The contextual information in this report is based on the latest data available to the Record Centre and is regularly updated. If relying on this information for important decisions please check with the relevant County Recorder (www.sxbrc.org.uk/countyrecorderslist.htm) for the most up to date position of this species in Sussex.

Aspicilia caesiocinerea

An SxRSI species LICHEN;
Priority Species

Grid Reference	Recorder	Date	Locality
TQ047187	SAMLL	1992	West Sussex

Solenopsora holophaea

An SxRSI species. Normally maritime LICHEN;
Priority Species

Grid Reference	Recorder	Date	Locality
TQ047188	SAMLL	1992	West Sussex

Solenopsora vulturiensis

An SxRSI species. A maritime species. county rarity LICHEN;
Priority Species

Grid Reference	Recorder	Date	Locality
TQ047188	SAMLL	1991	West Sussex

Trapelia placodioides

An SxRSI species county rarity LICHEN;
Priority Species

Grid Reference	Recorder	Date	Locality
TQ047188	SAMLL	1990	West Sussex

Opegrapha parasitica

An SxRSI species county rarity LICHEN;
Priority Species

Grid Reference	Recorder	Date	Locality
TQ047187	Matcham Mr H	1991	West Sussex

Polypodium cambricum

Southern Polypody

An SxRSI species PTERIDOPHYTE;
Priority Species

Grid Reference	Recorder	Date	Locality
TQ047187	Anon @ Sussex Bot. Rec. Soc.	1995	West Sussex

Potentilla recta**Sulphur Cinquefoil**

An SxRSI species county rarity in vc13 DICOT;
Priority Species

Grid Reference	Recorder	Date	Locality
TQ047186	Anon @ Sussex Bot. Rec. Soc.	1995	West Sussex

Vicia lutea**Yellow Vetch**

An SxRSI species DICOT;
Nationally scarce;
Priority Species

Grid Reference	Recorder	Date	Locality
TQ040183	Anon @ Monks Wood	1980	West Sussex

Sium latifolium**Great Water-Parsnip**

A BAPSI VASCULAR PLANT. An SxRSI species DICOT;
Biodiversity Lists - Long List;
Nationally scarce;
Priority Species

Grid Reference	Recorder	Date	Locality
TQ01P	SPASU	1725-1978	West Sussex

Oenanthe silaifolia**Narrow-Leaved Water-Dropwort**

An SxRSI species DICOT;
Nationally scarce;
Priority Species

Grid Reference	Recorder	Date	Locality
TQ044185	Briggs Mrs M	Unknown	West Sussex
TQ054185	Anon @ Monks Wood	1991	West Sussex

Cuscuta europaea**Greater Dodder**

An SxRSI species DICOT;
Nationally scarce;
Priority Species

Grid Reference	Recorder	Date	Locality
TQ045183	SPASU	1966	West Sussex

Campanula rapunculus**Rampion Bellflower**

An SxRSI species DICOT;
IUCN (pre 1994) - Vulnerable;
Priority Species

Grid Reference	Recorder	Date	Locality
TQ047186	Knapp Dr A G	05/08/2001	West Sussex

Petasites albus**White Butterbur**

An SxRSI species Rare in vc13, presumed extinct in vc14. county rarity DICOT;
Priority Species

Grid Reference	Recorder	Date	Locality
TQ051191	Anon @ Sussex Bot. Rec. Soc.	1995	West Sussex

Hydrocharis morsus-ranae**Frogbit**

An SxRSI species MONOCOT;
Priority Species

Grid Reference	Recorder	Date	Locality
TQ053182	Anon @ Sussex Bot. Rec. Soc.	1994	West Sussex

Potamogeton acutifolius**Sharp-Leaved Pondweed**

An SxRSI species. In RDB MONOCOT;
IUCN (1994) - Vulnerable;
Priority Species

Grid Reference	Recorder	Date	Locality
TQ053183	Anon @ Sussex Bot. Rec. Soc.	1994	West Sussex

Platynemis pennipes**White-Legged Damselfly**

An SxRSI species DRAGONFLY;
Priority Species

Grid Reference	Recorder	Date	Locality
TQ0418	Sussex Branch BDS	21/07/1963	West Sussex

Pterostichus kugelanni**Ground beetle**

A BAPSI BEETLE. An SxRSI species GROUND BEETLE;
Biodiversity Lists - Middle List;
IUCN (pre 1994) - Endangered;
Priority Species

Grid Reference	Recorder	Date	Locality
TQ01P	Bedwell Mr E C	1725-1950	West Sussex

Rhantus suturalis

An SxRSI species WATER BEETLE;
Nationally Notable B;
Priority Species

Grid Reference	Recorder	Date	Locality
TQ046184	Hodge Mr P.J.	23/10/1997	Pulborough to Marehill 3

Stenus atratulus

An SxRSI species ROVE BEETLE;
Nationally Notable B;
Priority Species

Grid Reference	Recorder	Date	Locality
TQ01P	Bedwell Mr E C	1725-1950	West Sussex

Lathrobium ripicola

An SxRSI species ROVE BEETLE;
Nationally Notable;
Priority Species

Grid Reference	Recorder	Date	Locality
TQ01P	Bedwell Mr E C	1725-1950	West Sussex

Oxypoda amoena

An SxRSI species ROVE BEETLE;
Nationally Notable;
Priority Species

Grid Reference	Recorder	Date	Locality
TQ01P	Bedwell Mr E C	Feb 1927	West Sussex

Haploglossa marginalis

An SxRSI species ROVE BEETLE;
Nationally Notable;
Priority Species

Grid Reference	Recorder	Date	Locality
TQ01P	Anon	1725-1950	West Sussex

Lucanus cervus**Stag Beetle**

A BAPSI BEETLE. An SxRSI species MISC BEETLE;
Berne Convention Appendix 3;
Biodiversity Lists - Short List;
Habitats and species directive Annex 2 - non-priority species;
Nationally Notable B;
Priority Species;
Wildlife and Countryside Act 1981 (Schedule 5 Section 9.5a);
Wildlife and Countryside Act 1981 (Schedule 5 Section 9.5b)

Grid Reference	Recorder	Date	Locality
TQ0518	Hardy Mrs J	Jun 1996	West Sussex

Atomaria nigripennis

An SxRSI species FUNG BEETLE;
Nationally Notable;
Priority Species

Grid Reference	Recorder	Date	Locality
TQ01P	Anon	1725-1960	West Sussex

Buckleria paludum

An SxRSI species MICROMOTH;
IUCN (pre 1994) - Rare;
Priority Species

Grid Reference	Recorder	Date	Locality
TQ01P	Anon	1725-1970	West Sussex

Nomada fucata

An SxRSI species HYMENOPTERA;
Nationally Notable A;
Priority Species

Grid Reference	Recorder	Date	Locality
TQ040186	Edwards Mr M	1987	Station Road, Pulborough

Nomada pleurosticta

An SxRSI species HYMENOPTERA;
Nationally Notable A;
Priority Species

Grid Reference	Recorder	Date	Locality
TQ040186	Edwards Mr M	1975-1985	Station Road, Pulborough

Arvicola terrestris**Water Vole**

A BAPSI MAMMAL. An SxRSI species A PSR species Declining because of mink predation and habitat loss. county rarity
MAMMAL;
Biodiversity Lists - Short List;
Priority Species;
Wildlife and Countryside Act 1981 (Schedule 5 Section 9.4a);
Wildlife and Countryside Act 1981 (Schedule 5 Section 9.4b)

Grid Reference	Recorder	Date	Locality
TQ0418	Anon	1997	West Sussex

111 Confidential records exist for this enquiry area. Please contact the record centre for more information.

THE SUSSEX PROTECTED SPECIES REGISTER 2001

The Protected Species Register (PSR) was developed in 2001 to complement the *Sussex Rare Species Inventory (RSI)*.

In Sussex there are several species, which have, or whose habitats have, legal protection, but which are not 'rare'. Their presence in the RSI was anomalous. The reasons for conserving them are not necessarily the same as those for conserving rare species: hence the need to create a separate register.

At present the PSR consists of species of plants, fungi and animals (other than birds) which are protected under Schedules 5, 6 and 8 of the Wildlife and Countryside Act 1981, summaries of which are provided overleaf. In the schedules there are measures against the sale of some species (Common frogs and Stag beetles being just two examples). These species have not been included in the register as it is the damaging of the species and species abode or habitat that is relevant to this register.

Sites for records of protected species have been included in the Register, where the records exist within the Record Centre's computerised dataset. For some species only breeding, roosting or hibernation sites have been included, as opposed to all records of the species. PSR data is updated on a weekly basis.

There is, however, some overlap between the PSR and the RSI, as many protected species are also rare and hence remain in the RSI. Reports to enquirers may reflect this relationship between rarity and protection, with records for the same species at a given location appearing in both reports.

Some PSR species are extinct in Sussex. They have nevertheless been included in the PSR species list on grounds of historical interest and because there may be some potential for their re-introduction.

Badger and bird species records are not included in the PSR. Details of their protection and record location are given overleaf.

Records on the PSR

If a protected species record is flagged up in a report of the Sussex Protected Species Register it must be noted that this does **not** mean that the species will still be present, but that it was recorded at that time and place by the recorder listed. A further knowledge of the natural history of the species in question will tell the enquirer more about the implications of the record.

If a species is not mentioned this does **not** mean that it is **not** present at the site in question, simply that it has not been recorded, or that the Record Centre has not been made aware of its presence.

These two facts are important considerations when using data from the Sussex Protected Species Register.

WILDLIFE PROTECTION LEGISLATION IN ENGLAND

Legislation designed to protect animals and plants have been issued both by the European Community and nationally. The major legislation for protection in the U.K. is provided by the *Wildlife and Countryside Act 1981*, and strengthened by the *Countryside and Rights of Way Act 2000*.

It is important to note that legislation is ineffective in protecting a species in the presence of habitats declining due, for example, to loss of food supply, pollution or pesticides.

Wildlife and Countryside Act 1981 (and later amendments)

Up to date species lists are available from <http://www.naturenet.net/law/wcagen.html>

Schedule 1: Birds

Part 1 of this Schedule lists birds protected by special penalties at all times. Intentional or reckless killing, injuring, taking, possessing, disturbing and selling (including parts and derivatives, eggs, nests, *etc.* as applicable) as well as damaging, destroying or disturbing nests in current use or dependent young, *etc.* are prohibited. Part 2 lists birds protected by special penalties (as above) during close season.

Schedule 5: Protected animals (other than birds).

Intentional or reckless killing, injuring, taking, possessing, disturbing and selling (including parts and derivatives) as well as damaging, destroying or obstructing access to any structure or place of refuge, *etc.* are prohibited. *NB.* Protection of some species is limited to certain sections of the Act, which are indicated in the lists as follows:

- **S9(1)** Protection limited to intentional killing, injury or taking.
- **S9(2)** Protection limited to possessing and controlling
- **S9(4a)** Protection limited to damaging, destroying or obstructing access to any structure or place used by the animal for shelter or protection.
- **S9(4b)** Protection limited to disturbing the animal while it is occupying any structure or place which it uses for shelter or protection.
- **S9(5)** Protection limited to selling, offering for sale, possessing or transporting for purpose of sale, or advertising for sale, any live or dead animal, or any part of, or anything derived from such an animal. This includes Common frogs, Pool frogs, Common Toads and both smooth and Palmate Newts. Records of these species are not kept on the Protected Species Register.

Schedule 6: Animals which may not be killed or taken by certain methods.

Methods include traps and nets, poisons, automatic weapons, electrical devices, smokes/gases and various others. Even humane trapping for research requires a licence. Note that bows, explosives, self-locking snares and live bird or mammal decoys are generally prohibited for use against wild animals, irrespective of this Schedule.

Schedule 8: Protected plants and fungi.

Intentional picking, uprooting, destroying, trading (including parts and derivatives), *etc.* are prohibited. It should be noted that, under the Wildlife and Countryside Act, all wild plants in Britain are protected from intentional uprooting by an unauthorised person (but land owners, land

occupiers, persons authorised by either of these, or persons authorised in writing by the Local Authority for the area are exempt). *NB.* Protection for some species may be limited to certain Sections of the Act and where this is the case it is indicated in the lists as follows:

- **S13(2)** Protection limited to selling, offering for sale, possessing or transporting for purpose of sale, or advertising for sale, any live or dead plant, or any part of, or anything derived from, such plant.

The Bern Convention on the Conservation of European Wildlife and Natural Habitats

Up to date species lists are available from <http://www.ecnc.nl/doc/europe/legislat/bernconv.html>

This Convention is designed to protect important populations of listed wild species and their habitats. It incorporates the principle of sustainable development and particular emphasis is given to endangered and vulnerable species, especially endemic ones.

Appendix I

Flora that are required to be specially protected against deliberate picking, collecting, cutting, uprooting, possession, sale, *etc.*

Appendix II

This appendix lists strictly protected fauna. The Bern Convention places particular emphasis on migratory species and their breeding and resting sites (see also Bonn below). Listed fauna are required to be strictly protected against deliberate killing, capture, damage/destruction of breeding and nesting sites, disturbance, taking of eggs, trading (including parts and derivatives), *etc.* Various exceptions can be invoked to avoid, for example, inappropriate situations arising over species that, although listed, are common and widespread.

Appendix III

Listed in this appendix are all animals not on Appendix II whose populations are required to be protected from exploitation (indiscriminate mass killing, trading and any means of causing local disappearance or serious disturbance to a species) and managed to keep them out of danger. The appendix includes nearly all other birds, all other reptiles and amphibians and many other mammals.

The Convention on International Trade in Endangered Species of Wild Fauna and Flora

<http://www.cites.org/>

This Convention is aimed at controlling trade in wild plants or animals or "any recognisable part or derivative".

Appendix I lists species considered to be in danger of extinction and where trade is generally prohibited.

Appendix II lists species vulnerable to serious threat or extinction if trade is not controlled.

BADGERS AND BIRDS

Protection of the Badgers Act 1992

http://www.hmso.gov.uk/acts/acts1992/Ukpga_19920051_en_1.htm

Badgers are extensively protected by this Act, covering virtually any deliberate interference with the animals themselves or their setts.

**Badger records are not provided by the Protected Species Register.
For further details about Badgers in Sussex please contact English Nature at:**

English Nature Sussex & Surrey Team
Phoenix House, 32- 33 North Street, Lewes, East Sussex. BN7 2PH
Telephone 01273 476595
E-mail: cath.laing@english-nature.org.uk

Birds are covered by a separate suite of legislation. The Environmental Survey Directory (ESD) report enclosed tells you of the location of significant breeding bird records – for details of these records please contact the Sussex Ornithological Society.

Specialist information is available from the Sussex Ornithological Society (SOS)

East Sussex: John Gowers, 10 West Point, Newick, Lewes, East Sussex. BN8 4NU.
E-mail: j-b-gowers@supanet.com

West Sussex: Alan Perry, Edgehill Barn, Byworth, Petworth, West Sussex. GU28 0HR.
E-mail: ap@alanperry.uk.com

European Communities Council Directive on the Conservation of Wild Birds

The Directive relates to the conservation of all species of birds naturally occurring in the wild in the European territory of the Member States (but not Greenland), as well as their eggs, nests and habitats. A list of species (including rare and migratory birds) requiring special conservation measures, such as designation and maintenance of Special Protection Areas, is cited in Annex 1 to this directive. Birds generally are protected from deliberate killing, taking from the wild, egg collecting, nest destruction and keeping in captivity, but allowances are made for game birds. Pest species can be derogated by Member States (carrion crow, collared dove, feral and wood pigeons, rook, jackdaw, great and lesser black-backed gulls, herring gull, jay, magpie, house sparrow and starling in Britain).

PROTECTED SPECIES (NOT INCLUDING BIRDS) FOUND IN SUSSEX DECEMBER 2001

8	<i>Buellia asterella</i>	Starry Breck-lichen	5	<i>Hydrochara caraboides</i>	Lesser Silver Water Beetle
8	<i>Caloplaca luteoalba</i>	Orange-fruited Elm lichen	x 5 \$	<i>Lucanus cervus</i>	Stag Beetle
8	<i>Catapyrenium psomoroides</i>	Tree Psoromoides	5	<i>Argynnis adippe</i>	High Brown Fritillary
8	<i>Cladonia convoluta</i>	a lichen	5	<i>Bembecia chrysidiformis</i>	Fiery Clearwing
8	<i>Gyalecta ulmi</i>	Elm Gyalecta	5	<i>Eurodryas aurinia</i>	Marsh Fritillary
8	<i>Heterodermia leucomelos</i>	Ciliate Strap-lichen	5	<i>Mellicta athalia</i>	Heath Fritillary
8	<i>Lecanactis hemisphaerica</i>	Churchyard Lecanactis	5	<i>Pareulype berberata</i>	Barberry Carpet
8	<i>Squamarina lentigera</i>	Scaly Breck-lichen	5	<i>Satyrion w-album</i>	White Letter Hairstreak
8	<i>Teloschistes flavicans</i>	Golden Hair-lichen	5	<i>Siona lineata</i>	Black-veined Moth
8	<i>Hericium erinaceum</i>	a basidiomycete fungus	5	<i>Thalera fimbrialis</i>	Sussex Emerald
8	<i>Lamprothamnium papulosum</i>	Foxtail stonewort	5	<i>Chirocephalus diaphanus</i>	Fairy Shrimp
8	<i>Acaulon triquetrum</i>	Triangular Pygmy-moss	5	<i>Gammarus insensibilis</i>	Lagoon Sand Shrimp
8	<i>Barbula glauca</i>	Glaucous Beard-moss	5 □ \$	<i>Austropotamobius pallipes</i>	Freshwater Crayfish
8	<i>Bartramia stricta</i>	Rigid Apple-moss	5	<i>Dolomedes plantarius</i>	Fen Raft Spider
8	<i>Drepanocladus vernicosus</i>	Slender Green Feather-moss	x 5 \$	<i>Bufo bufo</i>	Common Toad
8	<i>Micromitrium tenerum</i>	Millimetre Moss	x 5 \$	<i>Rana Temporaria</i>	Common Frog
8	<i>Rhynchostegium rotundifolium</i>	Round-leaved Feather-moss	5	<i>Triturus cristatus</i>	Warty Newt
8	<i>Trichomanes speciosum</i>	Killarney Fern	x 5 \$	<i>Triturus helveticus</i>	Palmate Newt
8	<i>Ajuga chamaepitys</i>	Ground-pine	x 5 \$	<i>Triturus vulgaris</i>	Smooth Newt
8	<i>Althaea hirsuta</i>	Rough Marsh-mallow	5 \$	<i>Anguis fragilis</i>	Slow-worm
8	<i>Alyssum alyssoides</i>	Small Alison	5	<i>Coronella austriaca</i>	Smooth Snake
8	<i>Bupleurum baldense</i>	Small Hare's-ear	5 { \$	<i>Lacerta agilis</i>	Sand Lizard
8	<i>Chenopodium vulvaria</i>	Stinking Goosefoot	5 \$	<i>Lacerta vivipara</i>	Viviparous Lizard
8	<i>Crepis foetida</i>	Stinking Hawk's-beard	5 \$	<i>Natrix natrix</i>	Grass Snake
8	<i>Dianthus armeria</i>	Deptford Pink	5 \$ *	<i>Vipera berus</i>	Adder
8	<i>Eryngium campestre</i>	Field Eryngo	5,6	<i>Neomys fodiens</i>	Water Shrew
8	<i>Filago lutescens</i>	Red-tipped Cudweed	5,6	<i>Sorex araneus</i>	Common Shrew
8	<i>Filago pyramidata</i>	Broad-leaved Cudweed	5,6	<i>Sorex minutus</i>	Pygmy Shrew
8	<i>Fumaria reuteri</i>	Martin's Ramping-fumitory	5,6	<i>Barbastella barbastellus</i>	Barbastelle
8	<i>Gentianella anglica</i>	Early Gentian	5,6	<i>Eptesicus serotinus</i>	Serotine
x 8 Σ	<i>Hyacinthoides non-scripta</i>	Bluebell	5,6	<i>Myotis bechsteini</i>	Bechstein's Bat
8	<i>Lactuca saligna</i>	Least Lettuce	5,6	<i>Myotis brandti</i>	Brandt's Bat
8	<i>Lythrum hyssopifolia</i>	Grass-poly	5,6	<i>Myotis daubentonii</i>	Daubenton's Bat
8	<i>Melampyrum arvense</i>	Field Cow-wheat	5,6	<i>Myotis myotis</i>	Mouse-eared Bat
8	<i>Mentha pulegium</i>	Pennyroyal	5,6	<i>Myotis mystacinus</i>	Whiskered Bat
8	<i>Orobancha artemisiae-campestris</i>	Oxtongue Broomrape	5,6	<i>Myotis nattereri</i>	Natterer's Bat
8	<i>Petrorhagia nanteuillii</i>	Childing Pink	5,6	<i>Nyctalus noctula</i>	Noctule
8	<i>Phyteuma spicatum</i>	Spiked Rampion	5,6	<i>Pipistrellus nathusii</i>	Nathusius' Pipistrelle
8	<i>Polygonum maritimum</i>	Sea Knotgrass	5,6	<i>Pipistrellus pipistrellus</i>	Pipistrelle
8	<i>Pulicaria vulgaris</i>	Small Fleabane	5,6	<i>Pipistrellus pipistrellus 45kHz</i>	45 kHz Pipistrelle
8	<i>Rhinanthus angustifolius</i>	Greater Yellow-rattle	5,6	<i>Pipistrellus pipistrellus 55kHz</i>	55 kHz Pipistrelle
8	<i>Salvia pratensis</i>	Meadow Clary	5,6	<i>Plecotus auritus</i>	Brown Long-eared Bat
8	<i>Cephalanthera rubra</i>	Red Helleborine	5,6	<i>Plecotus austriacus</i>	Grey Long-eared Bat
8	<i>Damasonium alisma</i>	Starfruit	5,6	<i>Rhinolophus ferrumequinum</i>	Greater Horseshoe Bat
8	<i>Himantoglossum hircinum</i>	Lizard Orchid	5,6	<i>Vespertilio murinus</i>	Parti-coloured Bat
8	<i>Leersia oryzoides</i>	Cut-grass	5 # β	<i>Arvicola terrestris</i>	Water Vole
8	<i>Ophrys sphegodes</i>	Early Spider-orchid	5,6	<i>Muscardinus avellanarius</i>	Common Dormouse
8	<i>Schoenoplectus triqueter</i>	Triangular Club-rush	5,6	<i>Sciurus vulgaris</i>	Red Squirrel
5	<i>Clavopsella navis</i>		5,6	<i>Phocoena phocoena</i>	Common Porpoise
5	<i>Edwardsia ivelli</i>	Ivell's Edwardsia	5,6	<i>Tursiops truncatus</i>	Bottle-nosed Dolphin
5	<i>Nematostella vectensis</i>	Starlet Sea Anemone	5,6	<i>Lutra lutra</i>	Otter
5	<i>Alkamaria romijini</i>	Tentacled Lagoon-worm	5,6	<i>Martes martes</i>	Pine Marten
5	<i>Hirudo medicinalis</i>	Medicinal Leech	x 5,6	<i>Meles meles</i>	Badger
5	<i>Decticus verrucivorus</i>	Wart Biter			
5	<i>Gryllotalpa gryllotalpa</i>	Mole Cricket			
5	<i>Gryllus campestris</i>	Field Cricket			

* Sch.5 section 9 (1)

Sch.5 section 9 (4) (a)

{ Sch.5 section 9 (1)

\$ Sch.5 section 9 (5)

β Sch.5 section 9 (4) (b)

Σ Sch.8.section13(2)

x Records not in PSR report



Sussex Biodiversity Record Centre

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Sussex Protected Species Register Land at Pulborough, West Sussex

31 August 2004 ESD/04/313 Search Area: TQ0419, TQ0519, TQ0418 and TQ0518
Report prepared for Dr Andy Tilbrook

The contextual information in this report is based on the latest data available to the Record Centre and is regularly updated. If relying on this information for important decisions please check with the relevant County Recorder (www.sxbrc.org.uk/countyrecorderslist.htm) for the most up to date position of this species in Sussex.

Triturus cristatus

Great Crested Newt

A BAPSI AMPHIBIAN A PSR species AMPHIBIAN;
Berne Convention Appendix 2;
Biodiversity Lists - Short List;
Habitats and species directive Annex 2 - non-priority species;
Habitats and species directive Annex 4;
IUCN (1994) - Lower risk - conservation dependent;
Priority Species;
Statutory Instrument 2716: The Conservation (Natural Habitats etc) Regulations 1994. Schedule 2;
Wildlife and Countryside Act 1981 (Schedule 5 Section 9.1 (killing/injuring));
Wildlife and Countryside Act 1981 (Schedule 5 Section 9.1 (taking));
Wildlife and Countryside Act 1981 (Schedule 5 Section 9.2);
Wildlife and Countryside Act 1981 (Schedule 5 Section 9.4a);
Wildlife and Countryside Act 1981 (Schedule 5 Section 9.4b);
Wildlife and Countryside Act 1981 (Schedule 5 Section 9.5a);
Wildlife and Countryside Act 1981 (Schedule 5 Section 9.5b)

Grid Reference	Recorder	Date	Locality
TQ0519	Sussex Amphibian/ Reptile Grp SARG	03/03/1997	West Sussex

Anguis fragilis

Slow-Worm

A PSR species;
Biodiversity Lists - Long List;
Priority Species;
Wildlife and Countryside Act 1981 (Schedule 5 Section 9.1 (killing/injuring));
Wildlife and Countryside Act 1981 (Schedule 5 Section 9.5a);
Wildlife and Countryside Act 1981 (Schedule 5 Section 9.5b)

Grid Reference	Recorder	Date	Locality
TQ042197	Dey Mr D	01/06/1992	West Sussex

Natrix natrix

Grass Snake

A PSR species REPTILE;
Biodiversity Lists - Long List;
Priority Species

Grid Reference	Recorder	Date	Locality
TQ042197	Dey Mr D	01/06/1992	West Sussex
TQ045189	Dey Mr D	19/07/1993	West Sussex
TQ053186	Sussex Amphibian/ Reptile Grp SARG	01/01/1987	West Sussex

Vipera berus**Adder**

A PSR species REPTILE;
Biodiversity Lists - Long List;
Priority Species;
Wildlife and Countryside Act 1981 (Schedule 5 Section 9.1 (killing/injuring));
Wildlife and Countryside Act 1981 (Schedule 5 Section 9.5a);
Wildlife and Countryside Act 1981 (Schedule 5 Section 9.5b)

Grid Reference	Recorder	Date	Locality
TQ042197	Dey Mr D	01/06/1992	West Sussex

Chiroptera

A PSR species (included in PSR because of protection) BAT;
Priority Species;
The Wildlife (Northern Ireland) Order 1985 (Schedule 5);
The Wildlife (Northern Ireland) Order 1985 (Schedule 6);
The Wildlife (Northern Ireland) Order 1985 (Schedule 7)

Grid Reference	Recorder	Date	Locality
TQ0518	English NaturevBat Files EN	27/10/1993	West Sussex

Pipistrellus pipistrellus**Pipistrelle**

A BAPSI MAMMAL. A PSR species BAT;
Berne Convention Appendix 2;
Berne Convention Appendix 3;
Biodiversity Lists - Short List;
Priority Species

Grid Reference	Recorder	Date	Locality
TQ052192	English NaturevBat Files EN	17/08/1993	West Sussex
TQ056188	English NaturevBat Files EN	21/11/1996	West Sussex

Arvicola terrestris**Water Vole**

A BAPSI MAMMAL. An SxRSI species A PSR species Declining because of mink predation and habitat loss. county rarity
MAMMAL;
Biodiversity Lists - Short List;
Priority Species;
Wildlife and Countryside Act 1981 (Schedule 5 Section 9.4a);
Wildlife and Countryside Act 1981 (Schedule 5 Section 9.4b)

Grid Reference	Recorder	Date	Locality
TQ0418	Anon	1997	West Sussex

111 Confidential records exist for this enquiry area. Please contact the record centre for more information.

SUSSEX ENVIRONMENTAL SURVEY DIRECTORY (ESD)

The Sussex Environmental Survey Directory (ESD) was first developed in 1990 as a tool to report on biological surveys that have taken place in Sussex. The Directory now contains information on over 1600 surveys covering over 20,000 sites across the county. The system is written specifically to report on what surveys have been carried out on specific sites and directs the enquirer to where this information is held. The Record Centre does not hold copies of all the reports that it refers enquirers to, but simply directs the enquirer to organisations or individuals who do.

The directory is updated on a weekly basis and now contains summary data on the county's ornithological data, (courtesy of the Sussex Ornithological Society) and on the county's geological sites (courtesy of the Booth Museum).

Some of the acronyms listed in ESD are given below:-

BBCS	British Butterfly Conservation Society
BMONH	Booth Museum of Natural History
BSBI	Botanical Society of the British Isles
BTO	British Trust for Ornithology
COGS	County Geological/Geomorphological Sites
EA	Environment Agency
EN	English Nature
ESCC	East Sussex County Council
ESD	Environmental Survey Directory
FCLand	Forestry Commission (Enterprise) Land
FWAG	Farming & Wildlife Advisory Group
LNR	Local Nature Reserve
NCC	Nature Conservancy Council
NNR	National Nature Reserve
NRA	National Rivers Authority (now EA)
NT	National Trust
NVC	National Vegetation Classification
RIGS	Regionally Important Geological Sites
RSPB	Royal Society for the Protection of Birds
SBRS	Sussex Botanical Recording Society
SNCI	Site of Nature Conservation Importance
SOS	Sussex Ornithological Society
SSSI	Special Site of Scientific Interest
SxWT/SWT	Sussex Wildlife Trust
WSCC	West Sussex County Council
Phase I	A broad habitat survey with a dominant species list and land use information
Phase II	Mapping of vegetation communities with species lists and abundance /distribution of the species
Phase III	A detailed survey including ecological processes and long-term monitoring information



Sussex Biodiversity Record Centre

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Sussex Environmental Survey Directory Search

Report on behalf of Dr Andy Tilbrook regarding land at Pulborough, West Sussex.

REF: ESD/04/313

ESD Code	Survey Name	Date	Author	Contact	Depository	Site Status	Site Name	Site Grid Ref
176	Sussex Hymenoptera Records	1971-1990	EDWARDS, Mike	Edwards, Bruce	As contact *	* *	Road Verge, A283 Station/Stopham Rd, Pulborough	TQ040186
COMMENTS for Survey Data collated about Hymenoptera (Bees, wasps, ants). Mike Edwards has records for many sites in Sussex that he has visited over the years.								
COMMENTS for Site South side of road adjacent to the river Rother/Arun has a scarce bee.								
ESD Code	Survey Name	Date	Author	Contact	Depository	Site Status	Site Name	Site Grid Ref
328	Survey of Unimproved Neutral Grassland in West Sussex (Vol 1)	1987	BARTON, J.	English Nature Phoenix House, 32-33 North Street, Lewes, East Sussex BN7 2PH 01273 476595	EN SWT WSCC	SNCI * *	Middle Barn Farm Meadow - Unimproved Neutral Grassland Site	TQ045192
COMMENTS for Survey A standard NVC survey and assessment of unimproved neutral grassland sites in West Sussex. Lower River Valley Survey No. 20. (Phase I/II)								
COMMENTS for Site A damp neutral meadow. A mosaic of coarse grassland and rush pasture. Typical dicotyledons. Is a part of SNCI C98.								

Sussex Environmental Survey Directory Search

Report on behalf of Dr Andy Tilbrook regarding land at Pulborough, West Sussex.

REF: ESD/04/313

ESD Code	Survey Name	Date	Author	Contact	Depository	Site Status	Site Name	Site Grid Ref
328	Survey of Unimproved Neutral Grassland in West Sussex (Vol 1)	1987	BARTON, J.	English Nature Phoenix House, 32-33 North Street, Lewes, East Sussex BN7 2PH 01273 476595	EN SWT WSCC	* * *	Pulborough Railway Line - Unimproved Neutral Grassland Site	TQ046191
COMMENTS for Survey A standard NVC survey, and assessment of unimproved neutral grassland sites in West Sussex. Lower River Valley Survey No. 20. (Phase I/II)								
COMMENTS for Site A poorly drained area of grassland.								
ESD Code	Survey Name	Date	Author	Contact	Depository	Site Status	Site Name	Site Grid Ref
500	Designated SNCIs (in West Sussex)	1990-	WSCC	Griffiths, Ann The Grange, County Hall, Tower Street, Chichester, West Sussex, PO19 1RL 01243 777617	EN SWT WSCC	SNCI * *	Middle Barn Farm Meadow - Unimproved Neutral Grassland Site	TQ045192
COMMENTS for Survey All SNCIs in West Sussex are covered here. All sites have management prescriptions. Each site was surveyed botanically, but additional information on other groups is included where known. (A hand-book 'West Sussex Sites of Nature Conservation Importance' has been produced). (Phase II). In 1998 a further 26 new sites were added. In 2001 a further 23 new sites were added and 1 deleted.								
COMMENTS for Site A damp neutral meadow. A mosaic of coarse grassland and rush pasture. Typical dicotyledons. Is a part of SNCI C98.								
ESD Code	Survey Name	Date	Author	Contact	Depository	Site Status	Site Name	Site Grid Ref
500	Designated SNCIs (in West Sussex)	1990-	WSCC	Griffiths, Ann The Grange, County Hall, Tower Street, Chichester, West Sussex, PO19 1RL 01243 777617	EN SWT WSCC	SNCI * *	Middle Barn Farm Meadow, Pulborough - SNCI C98	TQ045192
COMMENTS for Survey All SNCIs in West Sussex are covered here. All sites have management prescriptions. Each site was surveyed botanically, but additional information on other groups is included where known. (A hand-book 'West Sussex Sites of Nature Conservation Importance' has been produced). (Phase II). In 1998 a further 26 new sites were added. In 2001 a further 23 new sites were added and 1 deleted.								
COMMENTS for Site								

Sussex Environmental Survey Directory Search

Report on behalf of Dr Andy Tilbrook regarding land at Pulborough, West Sussex.

REF: ESD/04/313

ESD Code	Survey Name	Date	Author	Contact	Depository	Site Status	Site Name	Site Grid Ref
606	RDB Plants - CONFIDENTIAL	1985- 1987	FITZGERALD, R.	English Nature Phoenix House, 32-33 North Street, Lewes, East Sussex BN7 2PH 01273 476595	EN/SSSI/S *	* *	Lower Street RDB Plants Site, Pulborough - WS2	TQ047186
COMMENTS for Survey Site surveys for Red Data Book plants. Many sites are monitored from year to year. Rare Plants Project.								
COMMENTS for Site Rough grass above a wall on a rural roadside. Has Rampion Bellflower.								
ESD Code	Survey Name	Date	Author	Contact	Depository	Site Status	Site Name	Site Grid Ref
618	Survey of Unimproved Grassland in West Sussex (Vol 2)	6.88-8.88	ALLWRIGHT, R.	English Nature Phoenix House, 32-33 North Street, Lewes, East Sussex BN7 2PH 01273 476595	EN SWT WSCC	SNCI *	Middle Barn Farm Meadow - Unimproved Neutral Grassland Site	TQ045192
COMMENTS for Survey These sites were surveyed, classified and a grassland recording card filled out. These original results on each site are not included in the final published report. Details of four sites in E Sussex that were also surveyed are also in the same box in a separate envelope. (At EN they are in the W Sussex Grassland Survey box in the library). (Phase II)								
COMMENTS for Site A damp neutral meadow. A mosaic of coarse grassland and rush pasture. Typical dicolyledons. Is a part of SNCI C98.								
ESD Code	Survey Name	Date	Author	Contact	Depository	Site Status	Site Name	Site Grid Ref
809	West Sussex Notable Road Verges	1975-	Various	Roberts, Graham c/o West Sussex County Council, County Hall, Chichester. PO19 1RL 01243 777617	WSCC * *	* * *	Road Verges, A283 Station/Stopham Rd, Pulborough	TQ040186
COMMENTS for Survey These roadside verges are noted as having conservation interest. All the records are collated and the more significant sites will be designated. At most sites the significance is botanical.								
COMMENTS for Site South side of road adjacent to the river Rother/Arun has a scarce bee.								

Sussex Environmental Survey Directory Search

Report on behalf of Dr Andy Tilbrook regarding land at Pulborough, West Sussex.

REF: ESD/04/313

ESD Code	Survey Name	Date	Author	Contact	Depository	Site Status	Site Name	Site Grid Ref
916	Sussex Churchyard Survey	1980-	DONOVAN, Pat	Sussex Botanical Recording Societ	As contact *	* * *	Churchyard, Church Place, Pulborough	TQ047187
COMMENTS for Survey Botanical survey of most of the churchyards in Sussex. The majority will have just a species list, but the ones with ecological significance have more detail. (Phase II)								
COMMENTS for Site								
ESD Code	Survey Name	Date	Author	Contact	Depository	Site Status	Site Name	Site Grid Ref
955	Nest Box Sites for Grey Wagtails on River Arun	2.95	FORD, Martin G.	National Rivers Authority, Guildbourne House, Chatsworth Road, Worthing. BN11 1LD	SWT * *	* * *	River Arun (A29 Bridge Nest Box Site, S of Pulborough)	TQ045183
COMMENTS for Survey Describes the provision of nest sites for Grey Wagtails on the River Arun. Also contains information on grey wagtail breeding locations and presence on the River Arun from 1975 - 1994.								
COMMENTS for Site								
ESD Code	Survey Name	Date	Author	Contact	Depository	Site Status	Site Name	Site Grid Ref
1126	Sussex Geological Sites Survey	1960-1999	Various	Cooper, John Booth Museum, 194 Dyke Road, Brighton, East Sussex BN1 5AA 01273 292780	BMONH * *	COGS * *	Hill by Pulborough Railway Station	TQ044186
COMMENTS for Survey An ongoing survey of the geological sites of Sussex containing Regionally Important Geological Sites (RIGS) and County Geological Sites (COGS).								
COMMENTS for Site When enquiring at the Booth Museum of Natural History quote ref: TQ01/65								

Sussex Environmental Survey Directory Search

Report on behalf of Dr Andy Tilbrook regarding land at Pulborough, West Sussex.

REF: ESD/04/313

ESD Code	Survey Name	Date	Author	Contact	Depository	Site Status	Site Name	Site Grid Ref
1126	Sussex Geological Sites Survey	1960-1999	Various	Cooper, John Booth Museum, 194 Dyke Road, Brighton, East Sussex BN1 5AA 01273 292780	BMONH *	COGS *	Pulborough Station.	TQ044187
COMMENTS for Survey An ongoing survey of the geological sites of Sussex containing Regionally Important Geological Sites (RIGS) and County Geological Sites (COGS).								
COMMENTS for Site When enquiring at the Booth Museum of Natural History quote ref: TQ01/01								
ESD Code	Survey Name	Date	Author	Contact	Depository	Site Status	Site Name	Site Grid Ref
1126	Sussex Geological Sites Survey	1960-1999	Various	Cooper, John Booth Museum, 194 Dyke Road, Brighton, East Sussex BN1 5AA 01273 292780	BMONH *	RIGS *	Horsham to Bognor Road, Pulborough,	TQ047187
COMMENTS for Survey An ongoing survey of the geological sites of Sussex containing Regionally Important Geological Sites (RIGS) and County Geological Sites (COGS).								
COMMENTS for Site When enquiring at the Booth Museum of Natural History quote ref: TQ01/26								
ESD Code	Survey Name	Date	Author	Contact	Depository	Site Status	Site Name	Site Grid Ref
1126	Sussex Geological Sites Survey	1960-1999	Various	Cooper, John Booth Museum, 194 Dyke Road, Brighton, East Sussex BN1 5AA 01273 292780	BMONH *	COGS *	Field NE of Pulborough Station	TQ045188
COMMENTS for Survey An ongoing survey of the geological sites of Sussex containing Regionally Important Geological Sites (RIGS) and County Geological Sites (COGS).								
COMMENTS for Site When enquiring at the Booth Museum of Natural History quote ref: TQ01/95								

Sussex Environmental Survey Directory Search

Report on behalf of Dr Andy Tilbrook regarding land at Pulborough, West Sussex.

REF: ESD/04/313

ESD Code	Survey Name	Date	Author	Contact	Depository	Site Status	Site Name	Site Grid Ref
1126	Sussex Geological Sites Survey	1960-1999	Various	Cooper, John Booth Museum, 194 Dyke Road, Brighton, East Sussex BN1 5AA 01273 292780	BMONH *	COGS *	Pulborough.	TQ056190
COMMENTS for Survey An ongoing survey of the geological sites of Sussex containing Regionally Important Geological Sites (RIGS) and County Geological Sites (COGS).								
COMMENTS for Site When enquiring at the Booth Museum of Natural History quote ref: TQ01/160								
ESD Code	Survey Name	Date	Author	Contact	Depository	Site Status	Site Name	Site Grid Ref
1126	Sussex Geological Sites Survey	1960-1999	Various	Cooper, John Booth Museum, 194 Dyke Road, Brighton, East Sussex BN1 5AA	BMONH *	COGS *	Caledonia Bungalow, Pulborough	TQ047188
COMMENTS for Survey An ongoing survey of the geological sites of Sussex containing Regionally Important Geological Sites (RIGS) and County Geological Sites (COGS).								
COMMENTS for Site When enquiring at the Booth Museum of Natural History quote ref: TQ01/117								
ESD Code	Survey Name	Date	Author	Contact	Depository	Site Status	Site Name	Site Grid Ref
1126	Sussex Geological Sites Survey	1960-1999	Various	Cooper, John Booth Museum, 194 Dyke Road, Brighton, East Sussex BN1 5AA 01273 292780	BMONH *	COGS *	Arun Hotel, Pulborough	TQ059185
COMMENTS for Survey An ongoing survey of the geological sites of Sussex containing Regionally Important Geological Sites (RIGS) and County Geological Sites (COGS).								
COMMENTS for Site When enquiring at the Booth Museum of Natural History quote ref: TQ01/118								

Sussex Environmental Survey Directory Search

Report on behalf of Dr Andy Tilbrook regarding land at Pulborough, West Sussex.

REF: ESD/04/313

ESD Code	Survey Name	Date	Author	Contact	Depository	Site Status	Site Name	Site Grid Ref
1126	Sussex Geological Sites Survey	1960-1999	Various	Cooper, John Booth Museum, 194 Dyke Road, Brighton, East Sussex BN1 5AA 01273 292780	BMONH *	COGS *	Arch by Pulborough Railway Station	TQ042185
COMMENTS for Survey An ongoing survey of the geological sites of Sussex containing Regionally Important Geological Sites (RIGS) and County Geological Sites (COGS).								
COMMENTS for Site When enquiring at the Booth Museum of Natural History quote ref: TQ01/64								
ESD Code	Survey Name	Date	Author	Contact	Depository	Site Status	Site Name	Site Grid Ref
1126	Sussex Geological Sites Survey	1960-1999	Various	Cooper, John Booth Museum, 194 Dyke Road, Brighton, East Sussex BN1 5AA 01273 292780	BMONH *	COGS *	Bridge over railway at Pulborough	TQ045188
COMMENTS for Survey An ongoing survey of the geological sites of Sussex containing Regionally Important Geological Sites (RIGS) and County Geological Sites (COGS).								
COMMENTS for Site When enquiring at the Booth Museum of Natural History quote ref: TQ01/68								
ESD Code	Survey Name	Date	Author	Contact	Depository	Site Status	Site Name	Site Grid Ref
1126	Sussex Geological Sites Survey	1960-1999	Various	Cooper, John Booth Museum, 194 Dyke Road, Brighton, East Sussex BN1 5AA 01273 292780	BMONH *	COGS *	Pulborough General	TQ054184
COMMENTS for Survey An ongoing survey of the geological sites of Sussex containing Regionally Important Geological Sites (RIGS) and County Geological Sites (COGS).								
COMMENTS for Site When enquiring at the Booth Museum of Natural History quote ref: TQ01/34								

Sussex Environmental Survey Directory Search

Report on behalf of Dr Andy Tilbrook regarding land at Pulborough, West Sussex.

REF: ESD/04/313

ESD Code	Survey Name	Date	Author	Contact	Depository	Site Status	Site Name	Site Grid Ref
1176	Site Survey of Brooks at Brook Gate Farm	17.6.96	ALLEN, Simon	Roberts, Graham c/o West Sussex County Council, County Hall, Chichester. PO19 1RL 01243 777617	WSSCC *	* * *	Brook Gate Farm, Pulborough	TQ056183
COMMENTS for Survey A species list for meadows/pastures and ditches.								
COMMENTS for Site Area of watermeadows, pastures and ditches, adjacent to housing.								
ESD Code	Survey Name	Date	Author	Contact	Depository	Site Status	Site Name	Site Grid Ref
1219	Significant Breeding Birds of Sussex - Sussex Ornithological Society	1990 - 2003	S.O.S.	Sussex Ornithological Society 01798 344417	As contact * *	* * *	SOS - Scarce, declining and rare breeding bird site	TQ05*18*
COMMENTS for Survey 1) The scarce, declining & lost Sussex breeding species. 2) Winter roosts for Long-eared owl, Hen Harrier and Little Egret. 3) Rare and Scarce records which are either adjudicated on by SOSRC or BBRC (national body). For details of the recorded species consult Sussex Ornithological Society.								
COMMENTS for Site Scarce, declining and rare breeding bird sites. Number of Records = 4								
ESD Code	Survey Name	Date	Author	Contact	Depository	Site Status	Site Name	Site Grid Ref
1219	Significant Breeding Birds of Sussex - Sussex Ornithological Society	1990 - 2003	S.O.S.	Sussex Ornithological Society 01798 344417	As contact * *	* * *	SOS - Rare and Scarce birds and/or important winter roost site	TQ04*18*
COMMENTS for Survey 1) The scarce, declining & lost Sussex breeding species. 2) Winter roosts for Long-eared owl, Hen Harrier and Little Egret. 3) Rare and Scarce records which are either adjudicated on by SOSRC or BBRC (national body). For details of the recorded species consult Sussex Ornithological Society.								
COMMENTS for Site Rare and Scarce birds and important winter roosts. Number of Records =1								

Sussex Environmental Survey Directory Search

Report on behalf of Dr Andy Tilbrook regarding land at Pulborough, West Sussex.

REF: ESD/04/313

ESD Code	Survey Name	Date	Author	Contact	Depository	Site Status	Site Name	Site Grid Ref
1219	Significant Breeding Birds of Sussex - Sussex Ornithological Society	1990 - 2003	S.O.S.	Sussex Ornithological Society	As contact *	*	SOS - Rare and Scarce birds and/or important winter roost site	TQ048180
COMMENTS for Survey 1) The scarce, declining & lost Sussex breeding species. 2) Winter roosts for Long-eared owl, Hen Harrier and Little Egret. 3) Rare and Scarce records which are either adjudicated on by SOSRC or BBRC (national body). For details of the recorded species consult Sussex Ornithological Society.								
COMMENTS for Site Rare and Scarce birds and important winter roosts. Number of Records =1								
ESD Code	Survey Name	Date	Author	Contact	Depository	Site Status	Site Name	Site Grid Ref
1219	Significant Breeding Birds of Sussex - Sussex Ornithological Society	1990 - 2003	S.O.S.	Sussex Ornithological Society	As contact *	*	SOS - Rare and Scarce birds and/or important winter roost site	TQ05*18*
COMMENTS for Survey 1) The scarce, declining & lost Sussex breeding species. 2) Winter roosts for Long-eared owl, Hen Harrier and Little Egret. 3) Rare and Scarce records which are either adjudicated on by SOSRC or BBRC (national body). For details of the recorded species consult Sussex Ornithological Society.								
COMMENTS for Site Rare and Scarce birds and important winter roosts. Number of Records =7								
ESD Code	Survey Name	Date	Author	Contact	Depository	Site Status	Site Name	Site Grid Ref
1325	Survey of the Flora and Selected Invertebrate Groups of the Ditches of the Lower Arun Valley.	1997	ALLEN, Simon	Arun District Council Section 269, Bognor Regis Town Hall, Clarence Road, Bognor PO21 1LD 01243 863141	As contact SWT WSCC	*	Arun Valley: Pulborough - Marehill	TQ052183
COMMENTS for Survey A survey of aquatic and riparian flora, Mollusca, Coleoptera (Beetles), Hemiptera (True Bugs), Heteroptera (Plant Bugs) of Lower Arun Valley. Part of the Arun Valley Countryside Project.								
COMMENTS for Site Most northern stretch of Arun Valley Countryside Project.								

Sussex Environmental Survey Directory Search

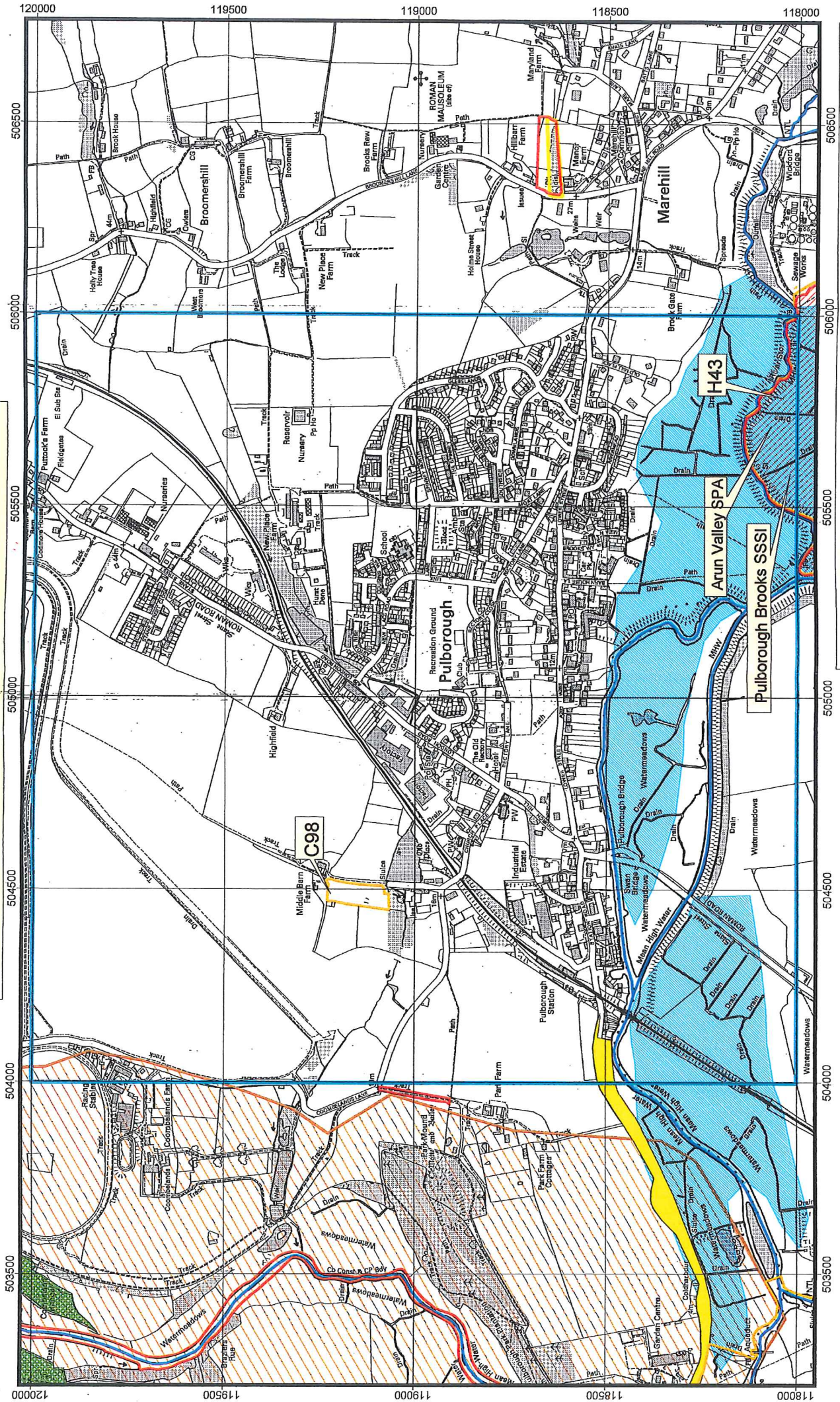
Report on behalf of Dr Andy Tilbrook regarding land at Pulborough, West Sussex.

REF: ESD/04/313

ESD Code	Survey Name	Date	Author	Contact	Depository	Site Status	Site Name	Site Grid Ref
1443	Historical and Current Distribution of the Water Vole in Sussex River Systems	1960 - 1997	DOLPHIN ECOLOGICAL *	Kate Ryland Dolphin Ecological S 6A Northfield Cottages, Isfield, Uckfield, East Sussex TN22 5XN 01825 750645	SWT EA *	*	River Arun Watermeadows, A29 Pulborough Bridge Area	TQ04*18*
COMMENTS for Survey A data gathering exercise to bring together all available historical and recent water vole records in Sussex, to ascertain their current status and make recommendations for their conservation. N.B. i) Heather Booth (Oxford Univ. Wild Cn) is embarking on PhD on voles in Arun/Rother catchment and working with Simon Allen. ii) Graham Roberts (SE Otters and Rivers Project) will survey Ouse Catchment from 6.7.98. (both most significant sites recorded on ESD).								
COMMENTS for Site Site of significant water vole records (1997).								
ESD Code	Survey Name	Date	Author	Contact	Depository	Site Status	Site Name	Site Grid Ref
1637	Dragonflies of the Arun Valley	7.89 - 10.95	BELDEN, Phil.	Beldon, Phil Sussex	As contact *	*	Arun Valley: Pulborough - Marshill	TQ052183
COMMENTS for Survey Report compiled from recent years' survey returns by various individuals, and from occasional trips by the author. Results expressed mainly by tetrads (2km squares) to give a picture of species distributions. Includes habitat descriptions, species descriptions, conservation and conclusions.								
COMMENTS for Site Most northern stretch of Arun Valley Countryside Project.								

Sussex Biodiversity Record Centre

Map showing Sites of Nature Conservation Importance, Sites of Special Scientific Interest, Areas of Outstanding Natural Beauty, Notable Verges, Grazing Marsh, Ancient Woodland, Special Protection Area, SWT Reserves and Main Rivers
Land at Pulborough, West Sussex ESD/04/313 31/08/04



KEY	
	Main River
	Area of Outstanding Natural Beauty
	SWT Reserve
	Notable Verges
	Grazing Marsh
	Ancient Woodland Site
	Site of Special Scientific Interest
	Special Protection Area
	Site of Nature Conservation Importance
	Enquiry area

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Sussex Biodiversity Record Centre is a registered charity (No. 1044891) and is a member of the Sussex Biodiversity Record Centre.
The map is a general representation of the land and does not show any specific details of the land or its use.

SITES OF NATURE CONSERVATION IMPORTANCE (SNCIs)

This is a non-statutory designation and is a typical term for a network of sites that are identified at a county level as being of local conservation importance and often recognised in Local Authority development plans. They are sometimes called SINC or County Wildlife sites.

There are many sites within both East and West Sussex and Brighton and Hove that are not recognised under the National designation of SSSI but are of considerable wildlife value due to the special interest of their flora / fauna. In May 1990 a Sussex wide project was instigated to identify which non-designated sites were important for wildlife. The selected sites are now known as Sites of Nature Conservation Importance (SNCI). The aim of this identification was to protect such sites from land management changes, which may lessen their nature conservation interest, and to encourage sensitive management to maintain and enhance their importance.

Sites within both rural and urban areas were considered but the evaluation process considers two types of site under slightly different criteria:

- **Rural sites**, that may contain habitats such as heathland or ancient woodland, must be of countywide importance.
- **Urban sites** must recognise the importance to safeguard important urban wildlife sites, to link all significant greenspace sites and to ensure that people in towns have easy access to wildlife areas.

The actual selection of SNCIs was made, after extensive survey work, by a panel of expert ecologists. This panel included representatives from the relevant County Council, English Nature and the Wildlife Trust, together with a range of specialists with either specific species knowledge or a sound knowledge of the County's ecology. Assessment and identification of SNCIs is a continuing process with new sites being identified and others deleted as ecological knowledge of the total resource and specific sites increase. In West Sussex SNCI selection is steered by the County Council, whereas in East Sussex it is steered by the District Councils. Currently there are **360** SNCIs in East Sussex and **359** in West Sussex including the 12 designated in June 2001. Brighton and Hove City Council recognise over **70** sites.

Although SNCIs have no statutory protection they need to be considered in the planning process through Planning Policy Guidance like PPG9 which refers to the Town & Country Planning Act 1990 Section 30. This states that nature conservation issues should be included in the surveys of local authority areas to ensure that the plans are based on fully adequate information about local species, habitats, geology and landform. Plans should be concerned not only with designated areas but also with other land of conservation value and the possible provision of new habitats.

SNCI site accounts outline the characteristics of the area based on its semi-natural vegetation and the underlying geology and are in 3 main sections :-

- **Summary** which highlights the nature conservation importance of the site
- **Site description** which gives further descriptive details about the site and its associated species
- **Management recommendations** which give a brief indication of the type of management that would best maintain the nature conservation interest of the site.

It is important to realise that classification as an SNCI in no way reduces the value of other wildlife sites, as sites of SNCI quality may not have been surveyed for various reasons. All areas of semi-natural vegetation are important to wildlife. Many rare plants and animals occur in seemingly otherwise uninteresting sites and may be overlooked by the survey.

WEST SUSSEX SITES OF NATURE CONSERVATION IMPORTANCE

Site: Middle Barn Farm meadow, Pulborough

Grid Ref: TQ 045 192

Site Ref: C 98

Owner: Private

District: Horsham

Area: 1.1 hectares

Parish: Pulborough

Habitat: Unimproved wet meadow/fen

Date: Identified May 1997

Author: Kate Ryland

Revised Dec 2003

Summary

Middle Barn Farm meadow is a somewhat neglected example of unimproved, wet grassland, which still retains a very rich flora. It may once have contained ponds, which are now overgrown. A drier bank in the south-eastern corner supports a typical neutral meadow flora.

Site Description

This grassland appears to have been under-managed for some years and is currently (1997) grazed by ponies, but nevertheless it retains a large number of plant species typical of unimproved wet grassland and fen. Most notable is the colony of Southern Marsh Orchid (*Dactylorhiza praetermissa*) in the northern part of the site, but other wetland species of interest include Yellow Loosestrife (*Lysimachia vulgaris*), Water Mint (*Mentha aquatica*), Greater Bird's-foot-trefoil (*Lotus pedunculatus*), Meadowsweet (*Filipendula ulmaria*), Hemp Agrimony (*Eupatorium cannabinum*), Yellow Flag (*Iris pseudacorus*), Branched Bur-reed (*Sparganium erectum*), Gipsywort (*Lycopus europaeus*), Great Willowherb (*Epilobium hirsutum*), Fleabane (*Pulicaria dysenterica*) and rushes (*Juncus* spp). The dominant grasses are Creeping Bent (*Agrostis stolonifera*) and Yorkshire Fog (*Holcus lanatus*).

In the south-western corner is a more scrubby area of Bramble (*Rubus fruticosus* agg), Sallow (*Salix cinerea*) and Alder (*Alnus glutinosa*) with a small patch of Wood Club-rush (*Scirpus sylvaticus*).

In the south-east corner is a drier bank, which supports Common Sorrel (*Rumex acetosa*), Lesser Stitchwort (*Stellaria graminea*), Red Fescue (*Festuca rubra*) and Selfheal (*Prunella vulgaris*).

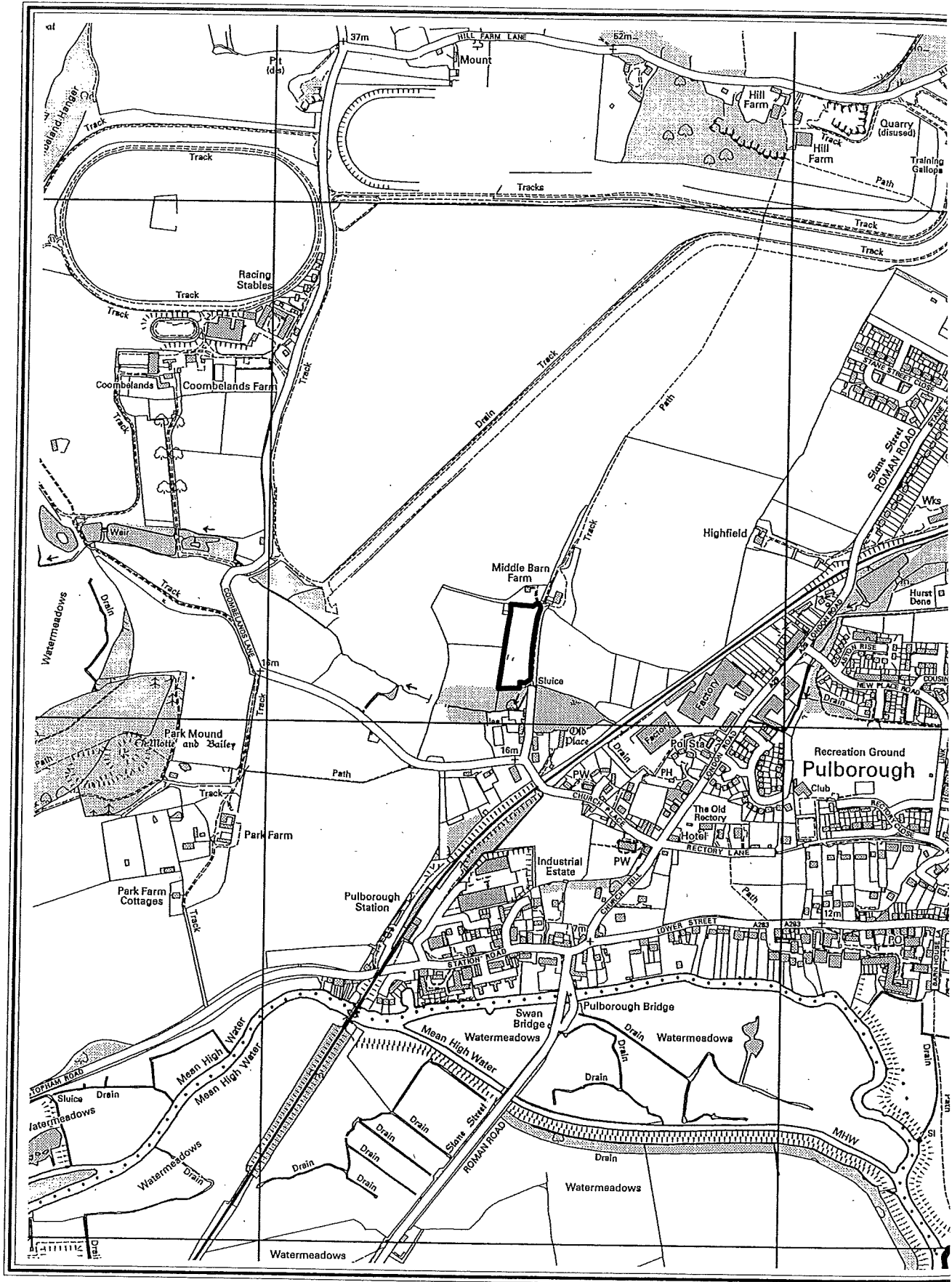
Management Recommendations

Past grazing pressures and cutting regimes have not been sufficient to maintain the wet grassland flora and a progression to fen and scrub is underway. The ground is very wet in winter and cutting the site in August and removing the cuttings and then grazing the site for a month would be the ideal management. If grazing animals are on site then care should be taken to ensure that they do not poach the ground, especially in wet weather.

WEST SUSSEX SITES OF NATURE CONSERVATION IMPORTANCE

Site: Middle Barn Farm Meadow, Pulborough
Grid Ref: TQ 045 192

Site Re



Sheet 1 of 1

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WEST SUSSEX SITES OF NATURE CONSERVATION IMPORTANCE

Site: Pulborough Brooks, Pulborough

Information on former SNCI

Grid Ref:	TQ 055 173	Site Ref:	H 43
Owner:	RSPB	District:	Horsham
Area:	131.7 hectares	Parish:	Parham

Habitat: Neutral grassland, ditch; semi-natural woodland and scrub

Date: Identified Dec 2000 **Author:** Graham Roberts

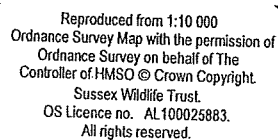
Summary

This site forms part of Pulborough Brooks Nature Reserve which was purchased by the Royal Society for the Protection of Birds (RSPB) in 1989. It consists of lowland grazing marsh with ditches and small areas of semi-natural woodland and scrub. The area is of great ornithological importance, notably for its wintering wildfowl and breeding waders. The ditches support an interesting flora and fauna.

In 1998 the majority of this site was notified as Pulborough Brooks SSSI. The few parts of the SNCI that remained outside the SSSI were not thought to be important enough to remain as SNCI in their own right and have been deleted as SNCI.

Information on the SSSI can be sought from English Nature.

Site Ref: H 43



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SHEET 1 of 1.

Y

SITES OF SPECIAL SCIENTIFIC INTEREST (SSSIs)

Sites of Special Scientific Interest (SSSIs) are areas notified under *the Wildlife and Countryside Act, 1981*, as being of "special interest for nature conservation". They represent the finest sites for wildlife and natural features in Great Britain supporting many characteristic, rare and endangered species, habitats and natural features. Notification as a SSSI is primarily a legal mechanism organised by English Nature and selected according to specific scientific criteria. *The Guidelines for the Selection of Biological SSSIs*, published in 1989 by the Joint Nature Conservation Council, set down the selection criteria for both biological and geological SSSIs.

Biological SSSIs - form a national network of wildlife sites. Sites are selected in such a way that the protection of each site, and hence the network, aims to conserve the minimum area of wildlife habitat necessary to maintain the natural diversity and distribution of Britain's native flora and fauna and the communities they comprise. Each site, therefore, is of national significance for its nature conservation value.

Geological SSSIs – more correctly termed *Earth Science SSSIs* – are sites chosen for their research value, the criterion being that they are of national or international importance. Earth Science conservation is concerned with the maintenance of our geological and geomorphological heritage.

There are approximately 4,100 Sites of Special Scientific Interest in England of which **75** are in West Sussex and **66** in East Sussex. English Nature is responsible for identifying and protecting these sites. This is achieved, primarily, in partnership with SSSI owners and managers, and as a result the majority are in good condition and well managed.

Ever growing pressures on our landscape and countryside mean that SSSIs are an increasingly precious part of our natural heritage. Damaging SSSIs is unacceptable, either in the short or long term, and must be avoided if they are to remain the finest wildlife and natural heritage sites in England. Once lost, the special interest of a site may be difficult or impossible to restore or re-create. Owners and occupiers (ie landowners, tenants and commoners) of SSSIs must give English Nature written notice before initiating any operations likely to damage the site, or allowing someone else to carry out these activities. None of the operations listed in the notification documents may proceed without English Nature's consent.

Under the *Countryside and Rights of Way Act 2000* (CROW) anyone who in any way intentionally or recklessly destroys or damages any of the flora, fauna or geological or physiological features of an SSSI is guilty of an offence and is liable, on summary conviction, of a fine of up to £20,000.

For more information on SSSIs please go to **www.english-nature.org.uk**

The Sussex and Surrey English Nature team can be contacted directly:

Sussex & Surrey Team (Brighton & Hove, East Sussex, West Sussex & Surrey)
Phoenix House
32-33 North Street
Lewes
East Sussex
BN7 2PH
Tel: +44 (0)1273 476595
Fax: +44 (0)1273 483063
Email: **sussex.surrey@english-nature.org.uk**

CITATION SHEET

File Ref: WG/PUL

COUNTY: WEST SUSSEX

SITE NAME: PULBOROUGH BROOKS

DISTRICT: HORSHAM DISTRICT

Status: Site of Special Scientific Interest (SSSI) notified under Section 28 of the Wildlife and Countryside Act 1981 (as amended)

Local Planning Authority: Horsham District Council

National Grid Reference: TQ 052169

Area: 158.83 hectares

Ordnance Survey Sheet 1:50,000: 197

1:10,000:

Date Notified (Under 1981 Act): 1 July 1998

Last Revision:

Other Information: The site is located within the Wealden Greensand Natural Area. Part of the site is a Royal Society for the Protection of Birds nature reserve.

Description and Reasons for Notification:

This site consists of a series of wet meadows on the floodplain of the River Arun between Pulborough and Greatham. The fields, which are subject to winter, and occasional summer flooding, are dissected by a network of wet ditches, several of which support a rich aquatic flora and invertebrate fauna. The area is of outstanding ornithological importance notably for wintering wildfowl and breeding waders.

Pulborough Brooks has been managed for centuries as flood meadows which are cattle grazed and cut for hay during the summer. In recent years, drainage improvements and intensification of agricultural use have reduced the wildlife value of much of the Arun valley, but at Pulborough Brooks these trends are being reversed since much of the site is managed as a nature reserve.

Much of the grassland is semi-improved and parts have been cultivated in the past, but most fields consist of species-poor rough damp pasture. The majority of the site consists of the National Vegetation Classification categories yorkshire fog *Holcus lanatus* - tufted hair-grass *Deschampsia flexuosa* coarse grassland and creeping bent *Agrostis stolonifera* - marsh foxtail *Alopecurus geniculatus* wet pasture. The fields support such typical plants as soft rush *Juncus effusus*; hard rush *J. inflexus*, hairy sedge *Carex hirta* and marsh ragwort *Senecio aquaticus*.

The ditches, some of which are fringed by common reed *Phragmites australis*, reed-grass *Phalaris arundinacea*, reed sweet grass *Glyceria maxima* and bur-reed *Sparganium erectum*, are locally of great botanical importance, supporting populations of the nationally rare (Red Data Book) sharp-leaved pondweed *Potamogeton acutifolius* and many other characteristic species including frogbit *Hydrocharis morsus-ranae*, arrowhead *Sagittaria sagittifolia*, flowering rush *Butomus umbellatus*, hairlike pondweed *Potamogeton trichoides*, fine-leaved water dropwort

Oenanthe aquatica and greater water parsnip *Sium latifolium*. The nationally scarce narrow-leaved water dropwort *Oenanthe silaifolia* and small water pepper *Polygonum minus* also occur.

The invertebrate fauna of the wet ditches is also important, including the Red Data Book molluscs; *Pisidium pseudosphaerium* (nationally rare bivalve) and whirlpool snail, *Anisus vorticulus* (vulnerable). Nationally scarce water beetles include *Rhantus suturalis*, *Hydraena testacea*, *Enochrus melanocephalus* and *Helochares lividus*. Odonata (dragonflies and damselflies) include the nationally rare Scarce Chaser *Libellula fulva* and club-tailed *Gomphus vulgatissimus* dragonflies, the notable variable damselfly *Coenagrion pulchellum* and the local red-eyed damselfly *Erythromma najas*. The notable solitary bee *Macropis europaea* occurs in association with its forage plant, yellow loosestrife *Lysimachia vulgaris* along ditches throughout the site.

A major part of the site is now managed as an area of wet grassland principally for the benefit of breeding waders and internationally important assemblages of wintering wildfowl. The Arun Valley is an important breeding area in Southern England for wading birds and this site alone supports significant numbers of lapwing, snipe and redshank. Other important breeding birds include garganey, yellow wagtail, grey partridge, skylark, reed bunting and barn owl.

Controlled flooding of this part of the valley during the winter attracts large flocks of wildfowl and wading birds including nationally and internationally important numbers of Bewick's swan, wigeon, teal, pintail, shoveler and ruff. Other wintering species of note include white-fronted goose, golden plover, snipe and large flocks of lapwing.

PULBOROUGH BROOKS, WEST SUSSEX

OPERATIONS LIKELY TO DAMAGE THE FEATURES OF SPECIAL INTEREST

Standard

Ref No.

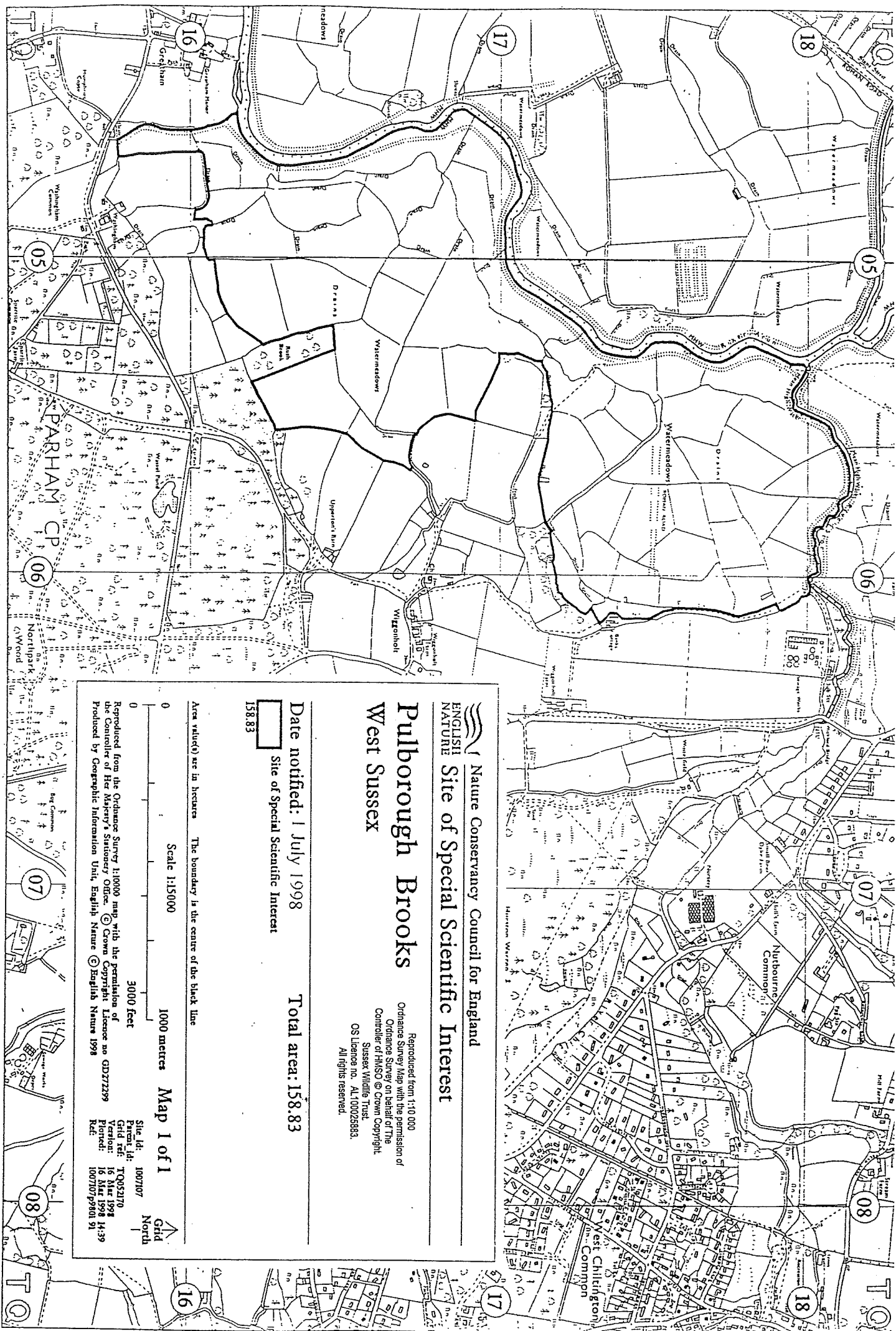
Type of Operation


1. Cultivation, including ploughing, rotovating, harrowing and re-seeding.
2. Grazing, the introduction of grazing and alterations to the grazing regime (including type of stock, intensity or seasonal pattern of grazing).
3. Stock feeding, the introduction of stock feeding and alterations to stock feeding practice.
4. Mowing or cutting vegetation, the introduction of mowing etc and alterations to the mowing or cutting regime (such as from haymaking to silage).
5. Application of manure, slurry, silage liquor, fertilizers and lime.
6. Application of pesticides, including herbicides (weedkillers) whether terrestrial or aquatic, and veterinary products.
7. Dumping, spreading or discharging of any materials.
8. Burning.
9. Release into the site of any wild, feral, captive-bred or domestic animal¹, plant, seed or micro-organism (including genetically modified organisms).
10. Killing, injuring, taking or removal of any wild animal¹, (including dead animals or parts thereof), or their eggs and nests, including/ excluding pest control and disturbing them in their places of shelter.
11. Destruction, displacement, removal or cutting of any plant or plant remains (including turf, herb, hedge, aquatic and marginal flora).
12. Tree and/ or woodland management, the introduction of tree and/ or woodland management and alterations to tree and / or woodland management (including planting, felling, pruning and tree surgery, thinning, coppicing, changes in species composition, removal of fallen timber).
- 13a. Drainage (including moor-gripping, the use of mole, tile, tunnel or other artificial drains)
- 13b. Modification to the structure of water courses (eg rivers, streams, springs, ditches, dykes, drains), including their banks and beds, as by re-alignment, regrading,

¹ "Animal" includes any mammal, reptile, amphibian, bird, fish or invertebrate (including honey bees)

damming or dredging.

- 13c. Management of aquatic and bank vegetation for drainage purposes.
- 14. Alterations to water levels and tables and water utilisation (including irrigation, storage and abstraction from existing waterbodies and through boreholes). Also the modification of current drainage operations, (eg through the installation of new pumps).
- 15. Infilling or digging of ditches, dykes, drains, ponds, pools, marshes or pits.
- 16a. Freshwater fishery production and/or management, including sporting fishing and angling, the introduction of freshwater production and / or management and alterations to freshwater fishery production and/ or management.
- 17. Reclamation of land from sea, estuary or marsh.
- 20. Extraction of minerals including peat, shingle, hard rock, sand, gravel, topsoil, subsoil, chalk, lime, limestone pavement, shells and spoil.
- 21. Destruction, construction, removal, rerouting, or regarding of roads, tracks, walls, fences, hardstands, banks, ditches or other earthworks, including soil and soft rock exposures or the laying, maintenance or removal of pipelines and cables, above or below ground.
- 22. Storage of materials.
- 23. Erection of permanent or temporary structures or the undertaking of engineering works, including drilling.
- 26. Use of vehicles or craft.
- 27. Recreational or other activities likley to damage or disturb features of interest.
- 28a. Game and waterfowl management and hunting practices, introduction of game or waterfowl management and alterations to game and waterfowl management and hunting practice.



 **Nature Conservancy Council for England**
Site of Special Scientific Interest

Pulborough Brooks
West Sussex

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Date notified: 1 July 1998

Total area: 158.83

Site of Special Scientific Interest

158.83

Area value(s) are in hectares The boundary is the centre of the black line

Scale 1:15000

1000 metres **Map 1 of 1**

Grid
North

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Site Id:	1007107
Parent Id:	
Grid ref:	TQ052170
Version:	16 Mar 1998
Plotted:	16 Mar 1998 14:39
Ref:	1007107p9801 91

KEY NATIONAL AND INTERNATIONAL SITE DESIGNATIONS

National Nature Reserve (NNR)

National Nature Reserves are statutory reserves established for the nation under the Wildlife and Countryside Act, 1981. NNRs may be owned by relevant national body (e.g. English Nature in England) or *established* by agreement; a few are owned and managed by non-statutory bodies, e.g. the Sussex Wildlife Trust. NNRs cover a selection of the most important sites for nature conservation in the UK. There are 6 NNRs in Sussex.

For further information please contact:

English Nature, Phoenix House, 32-33 North Street, Lewes, East Sussex, BN7 2PH

Tel: 01273 476595, Email: sussex.surrey@english-nature.org.uk

Special Area of Conservation (SAC)

Special Areas of Conservation are sites designated by Member States under the EC Habitats Directive. The aim is to establish a European network of important high quality conservation sites that will make a significant contribution to conserving habitats and species considered to be most in need of conservation at a European level. There are 9 SAC sites in Sussex.

For further information please contact: English Nature (details above)

Special Protection Area (SPA)

Special Protection Areas are designated under the EC Birds Directive, to conserve the habitat of certain rare or vulnerable birds and regularly occurring migratory birds. Any significant pollution or disturbance to or deterioration of these sites has to be avoided. There are 5 SPA sites in Sussex. All designated SPAs and SSSIs.

For further information please contact: English Nature (details above)

Ramsar

Ramsar sites are designated under the Convention on Wetlands of International Importance especially as Waterfowl Habitat. Wetlands are designated, protected and promoted in order to stem the progressive encroachment on and loss of wetlands, which are broadly defined to include marsh, fen, peatland and water. There are 5 Ramsar sites in Sussex. All designated Ramsar sites are SSSIs.

For further information please contact: English Nature (details above)

Area of Outstanding Natural Beauty (AONB)

AONBs are nationally important landscapes that are not National Parks, designated by the Countryside Agency to aid their protection and management. An AONB cannot be included in a simplified planning zone and it is not promoted for active recreation such as a National Parks. Each of the three AONBs in Sussex has an associated body concerned with the area's conservation.

For further information please contact:

Chichester Harbour Conservancy, The Harbour Office, Itchenor, Chichester, West Sussex, PO20 7AW.

Tel: 01243 512301 Email: harbourmaster@conservancy.co.uk

High Weald Unit, Corner Farm, Hastings Road, Flimwell, East Sussex, TN5 7PR.

Tel: 01580 879500, Email: info@highweald.org

Sussex Downs Conservation Board, Chanctonbury House, Church Street, Storrington, West Sussex, RH20 4LT. Tel: 01903 625242, Email: info@southdowns-aonb.gov.uk

Local Nature Reserve (LNR)

Land owned, leased or managed by Local Authorities and designated under the National Parks and Access to the Countryside Act. A site of some nature conservation value managed for educational objectives - no need for SSSI status. Some reserves are managed by a non-statutory body (e.g. Sussex Wildlife Trust). Local authorities have the power to pass bylaws controlling (e.g.) access special protection measures. There are 36 LNRs in Sussex.

For further information please contact:

West Sussex:-

West Sussex County Council, Planning Dept, County Hall, Tower Street, Chichester, PO19 1RL

Tel: 01243 753583 Email: [**simon.curson@westsussex.gov.uk**](mailto:simon.curson@westsussex.gov.uk)

East Sussex:-

Alex Tait, East Sussex County Council, Transport and Env't Dept, County Hall, St Anne's Crescent, Lewes, East Sussex, BN7 1UE

Tel: 01273 481621 Email: [**Alex.Tait@eastsussexcc.gov.uk**](mailto:Alex.Tait@eastsussexcc.gov.uk)

Regionally Important Geological / Geomorphological Site

Regionally Important Geological/Geomorphological Sites are non-statutory earth science sites. The RIGS networks are locally based voluntary groups drawing on both professional and interest groups identifying sites using a methodical and rational approach. RIGS are analogous to non-statutory biological sites - they are not a second tier but sites of regionally or local importance in their own right. There are 107 RIGS in Sussex.

For further information please contact:

John Cooper, Booth Museum of Natural History, 194 Dyke Road, Brighton, BN1 5AA.

Tel: 01273 292780 Email: [**boothmus@pavilion.co.uk**](mailto:boothmus@pavilion.co.uk)

Marine Sites of Nature Conservation Importance

Marine Sites of Nature Conservation Importance are non-statutory sites identified on account of the special interest of their marine habitats, the fauna and flora, or for unusual geological and geomorphological features. They are an extension of the series of terrestrial SNCIs. The identification of these sites is to highlight their importance for marine wildlife and to emphasise the risks of certain operations damaging their interest. There are 12 MSNCIs in Sussex.

For further information please contact:

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Register reference number: JK 902028

Date of registration: 31 May 2000

Signed: [Signature]

On behalf of the Secretary of State for the Environment

EC Directive 79/409 on the Conservation of Wild Birds: Special Protection Area

Name: Arun Valley

Unitary Authority/County: West Sussex

Consultation proposal: Waltham Brooks Site of Special Scientific Interest (SSSI), Amberley Wild Brooks SSSI and Pulborough Brooks SSSI have been recommended as a Special Protection Area because of the site's European ornithological importance. The three component SSSIs encompass a series of wet meadows, alluvial grazing marsh and former raised peat bog.

Boundary of SPA: The SPA boundary is coincident with both Amberley Wild Brooks SSSI and Pulborough Brooks SSSI. The SPA boundary also follows Waltham Brooks SSSI boundary but omits the land lying to the west of the railway.

European ornithological importance of SPA:

Arun Valley SPA is of European importance because:

- a) The site qualifies under article 4.1 of the Birds Directive (79/409/EEC) as it is used regularly by 1% or more of the Great Britain population of a species listed on Annex 1 in any season:

Annex 1 species	5 yr peak mean for 1992/93 - 1996/97
Bewick's Swan <i>Cygnus columbianus bewickii</i>	1151 (1.6% GB)

Unit of population size: 1 - individual birds wintering

- b) The site is used regularly by over 20,000 waterfowl (waterfowl as defined by the Ramsar Convention).

Period	Peak Mean	Waterfowl
1992/93 to 1996/97	27,241	(waders & wildfowl)

Unit of population size: 1 - individual birds wintering

All figures from: Papazoglou, F. & Gilbert, S. 1997. A proposal for a Special Protection Area in the Arun Valley, West Sussex. RSPB. Brighton

Non-qualifying species of interest

In addition, the site supports nationally important populations of wigeon *Anas penelope*, teal *Anas crecca*, pintail *Anas acuta*, shoveler *Anas clypeata* and Ruff (Annex 1 species) *Philomachus pugnax*. Golden plover *Pluvialis apricaria* and kingfisher *Alcedo atthis*, both Annex 1 species, also occur on Arun Valley SPA.

FLOODPLAIN GRASSLAND

(Also known as Wet Grassland, Grazing Marsh & Wetland Pasture)

Wet grasslands are perhaps the richest wildlife resource in England. This habitat consists mainly of low-lying wet grassland accompanied by dyke and or ditch systems, which maintain water levels and create areas of standing brackish or fresh water. These wetlands are rich in plant, bird and invertebrate species, many of which are rare or threatened and with some that are endemic to this habitat.

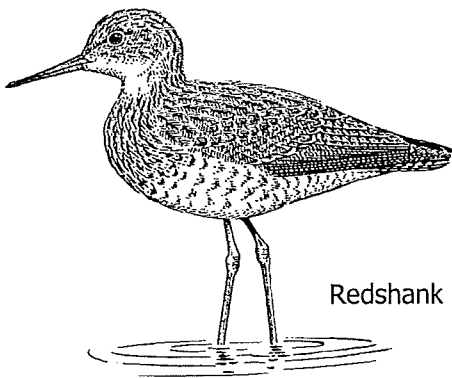
Unfortunately, naturally functioning floodplains are rare in the UK where most rivers are intensively engineered and regulated. However, Sussex is a county rich in 'natural' wetlands with some 11,400 ha of wet pasture, meadows, marshes and river levels or floodplain. The rivers Arun, Adur, Ouse and Cuckmere all have important areas of floodplain grasslands or 'levels'. Almost all these areas are grazed and some are cut for hay or silage. Good examples in Sussex of grazing marsh designated as Sites of Special Scientific Interest can be found at Amberley Wildbrooks and Pevensey Levels.



Lapwing

Approximately 500 species of vascular plants have been recorded from UK wet grassland and associated drainage channels. The drainage channels alone support some 130 of Britain's 170 species of brackish and fresh water vascular plants. Many of the plant species that occur on Sussex wet grasslands are nationally rare such as narrow-leaved water dropwort *Oenanthe silaifolia* and cut grass *Leersia oryzoides*.

Wet grassland provides ideal habitat for large numbers of bird species. Birds of Conservation Concern (1996) lists 37 red or amber list species that are at least partially dependent upon lowland wet grassland (10 of these are totally dependent), these include wigeon, Bewick's swan, lapwing, snipe, black-tailed godwit and redshank.



Redshank

Over a thousand nationally notable invertebrate species have been recorded on wet grasslands, about a quarter of which are listed in Red Data Books. For instance, Pevensey levels, in East Sussex, is one of only two sites in Britain where Britain's largest spider, the fen raft spider *Dolomedes plantarius* is found.

The still, sheltered waters of the levels provide safe spawning areas for fish and amphibians, which in their turn support an abundance of predators such as herons, kingfishers and grass snakes. Grazing marsh drainage channels are an ideal habitat for otters and water voles, which are both on the UK Biodiversity Steering Group short list of endangered species.

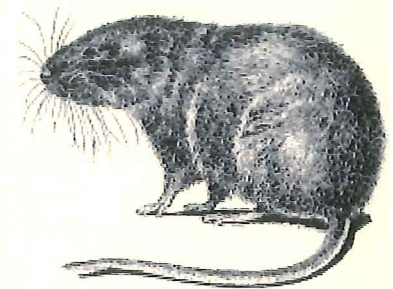
Besides the ecological importance, there are other benefits to be gained from the maintenance of the wet grasslands, mainly in the improvement of water quality and the provision of natural flood defences. The pastures receive nutrient rich alluvial deposits during winter and spring flooding. Traditionally, Sussex cattle have been grazed on these floodplain areas in the summer – a type of extensive livestock grazing that should be conserved and promoted.

However, despite their importance, floodplain grasslands are directly under threat from pump drainage schemes that lower the water table allowing their conversion to arable and more intensive grassland management. Increased use of artificial inputs and earlier spring grazing are among the resulting practices that are detrimental to wildlife – especially ground nesting birds.

The remaining levels become less prone to the seasonal flooding that is required to maintain the habitat. The lowered river and ditch water levels lead to reduce water quality because pollutants are concentrated in the remaining water.

Threats to the rivers themselves such as; domestic, industrial and agricultural pollution; unsympathetic flood prevention schemes and development on the estuaries and mudflats can indirectly lead to degradation of wet grassland habitat by changing water flow and water quality in the flood plains.

The Floodplain Grassland Habitat Action Plan gives detailed information and advice for this priority habitat and can be found at: www.biodiversitysussex.org



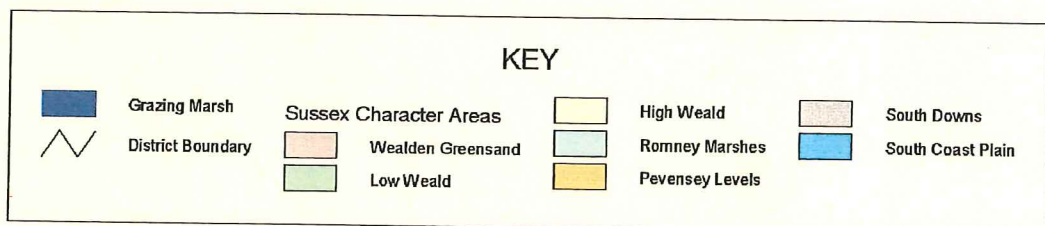
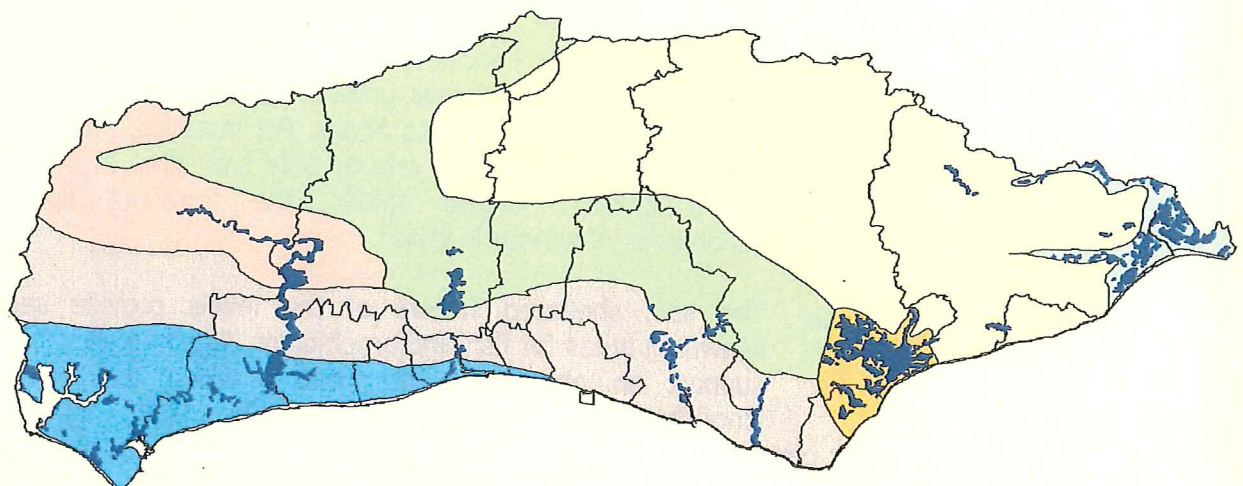
Water vole

Objectives in the Habitat Action Plan include:

- ◆ Identify the full extent and quality of existing areas of floodplain grassland.
- ◆ Prevent further loss, fragmentation or deterioration by ensuring appropriate protection and management.
- ◆ Implement suitable hydrological management to enable floodplain grassland enhancement and expansion.
- ◆ Implement, promote and market traditional farming methods to maintain and enhance floodplain grassland areas.

The lead organisation for this Sussex Habitat Action Plan is the Environment Agency (contact Jason Lavender, 01903 703846, jason.lavender@environment-agency.gov.uk).
(pictures courtesy of English Nature)

Sussex Grazing Marsh



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The Sussex Biodiversity Record Centre is managed by the Sussex Wildlife Trust as a partnership project between East and West Sussex County Councils, English Nature, the Environment Agency, the Sussex Downs Conservation Board, Southern Water, the National Trust, Brighton and Hove City Council and Local Authorities throughout Sussex.