

Background Ecological Data Search; An Area Near Flexford/Normandy, Guildford, Surrey

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**Surrey Biodiversity Information Centre
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**for
Danial Winchester**



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1.0 Introduction

The following report has been compiled by the Surrey Biodiversity Information Centre on behalf of Danial Winchester as part of a desktop ecological assessment of land near Guildford, Surrey. Based on our standard data search service it includes information on a) statutory and non-statutory site designations (i.e. sites of international, national and regional/local importance including ancient woodland), b) all protected species, c) all rare/notable species and d) all Priority Species as identified in the UK Biodiversity Action Plan falling within a two kilometre search area centred on an area near Flexford/Normandy, Guildford, Surrey (approximate site centre Ordnance Survey grid reference SU9337550302). The report is completed by a series of maps showing the search area together with details of any designated sites (Annex A).

2.0 Site Designations

There are no statutory¹ designated sites currently identified within two kilometre search area however, the desktop study carried out by SBIC did identified a number of non-statutory designated sites. Further details and site descriptions for each of these sites are shown below. The boundaries of each site are shown in Annex A.

2.1 Non-Statutory Designated Sites

2.1.1 Local Wildlife Sites

Local Wildlife Sites or Sites of Nature Conservation Importance (SNCLIs) as they are known in Surrey are identified on account of the habitats and flora/fauna they support, and are of County or regional wildlife importance.

They are selected by a panel of professional ecologists who together comprise the Surrey Nature Conservation Liaison Group (SNCLG), which includes representatives from Surrey County Council, district and borough councils across the County, English Nature, the Surrey Wildlife Trust, the Farming and Wildlife Advisory Group (FWAG), the Environment Agency and the Royal Society for the Protection of Birds. Each SNCI was selected from a County-wide database of ecological survey information according to criteria outlined in the report; *Criteria for SNCI Selection in Surrey* published by the SNCLG in July 1997.

The designation of SNCLIs in no way diminishes the importance of other areas of semi-natural habitat in Surrey, and it is recognised that all semi-natural habitat is important for wildlife and of potential education value. The assessment and designation of SNCLIs is a continual process and new sites will be identified as scientific knowledge of individual sites and of the total resource increases.

All of the sites described below fall within the administrative area covered by Guildford borough. 242 sites were originally surveyed in Guildford between 1993 and 1996 as part of a Borough wide review carried out by the Surrey Wildlife Trust on behalf of the Borough Council and Surrey County Council. Candidate sites were then reviewed by the SNCLG at a series of meetings in 1996. 82 SNCLIs were initially identified across Guildford, all of which have now been adopted by the Borough Council and incorporated into the adopted Guildford Borough Local Plan 2003 as Policy NE3. A partial re-survey took place on a number of sites across the Borough between 2004 and 2010, proposed changes including boundary amendments and the selection of a limited number of additional sites were approved by the SNCLG between 2005 and 2011.

¹ I.e. Sites of Special Scientific Interest (SSSI), National Nature Reserves (NNR), Local Nature Reserves (NNR) or internationally designated sites such as Special Areas of Conservation (SAC), Special Protection Areas (SPA) or Wetlands of International Importance (Ramsar site).

The Non-Statutory Designated Site table lists the name and reference number of each SNCI together with an Ordnance Survey grid reference, the size and the nature conservation interest of each site. A map showing both the area of search and the boundary of each SNCI can be found in Annex A. Please note, the report and map only provide details of SNCIs that fall either wholly or partially within the nominal search area.

Site Name	RECORDER No.	Grid Reference	Area (ha) /Length (km)	Borough / District	Nature Conservation Interest
Broadstreet Common and Backside Common SNCI	247, 3395, 3691	SU955505	160.3 ha	Guildford	Public access site supporting significant areas of unimproved acidic and mesotrophic grassland, as well as semi-improved grassland, broad-leaved semi-natural woodland, scrub, ponds and a stream. The site supports a number of locally scarce species and a nationally scarce and declining plant.
Wanborough and Normandy Woods SNCI (includes Broadmead Row, Inwood Copse and Whitegrass Copse, Green Lane East, Ash Green Wood, Grubground Copse, Whitegate Copse, Highfield Copse, Kiln Copse (North), Highfield Copse (North), Cathrine Frith, Wyke Wood, Kiln Copse, Wanborough Wood,)	251/4, 251/5 743, 1130 1133/1, 1175 1179, 2024 2025, 2026 2029, 2031 2365	SU906498, SU907493, SU907501, SU912501, SU914487, SU914492, SU914504, SU915506, SU915513, SU917500, SU917504, SU921491, SU929493,	160 ha	Guildford	The site consists of a complex of privately owned woods (most of which are ancient semi-natural) lying over the Reading Beds and London Clay. The majority of woodland stands are composed of base-enriched Ash (<i>Fraxinus excelsior</i>) – Field Maple (<i>Acer campestre</i>) – Hazel (<i>Corylus avellana</i>) coppices with Oak (<i>Quercus robur</i>) standards; Wanborough Wood displays one of the best examples of this type of woodland in Surrey. More acidic Oak – Birch (<i>Betula</i> sp.) stands are also present, for example in Grubground Copse and Catherine Frith. Small areas also support Alder (<i>Alnus fruticosa</i>) – Birch woodland. In total, more than 300 vascular plant species have been recorded from the SNCI, including a large number of locally rare and scarce species and a county rarity, at its only known west Surrey location. The SNCI is also important for mammals, birds, fungi, bryophytes and invertebrates.
Wyke Churchyard SNCI	952	SU921514	0.3 ha	Guildford	The site supports unimproved and semi-improved mesotrophic grassland. Important for one of the handful of known sites of a rare and declining Surrey plant.
Greencut Copse SNCI	1146	SU939494	8.4 ha	Guildford	Ancient semi-natural woodland lying over the London Clay and Reading Beds. Characteristic base-rich Ash (<i>Fraxinus excelsior</i>) - Hazel (<i>Corylus avellana</i>) - Field Maple (<i>Acer campestre</i>) coppice with Oak (<i>Quercus robur</i>) standards.
Normandy Pond SNCI	2032	SU928517	3.6 ha	Guildford	Normandy Pond is a shallow mesotrophic pond dating back at least 100 years. Recently restored the pond is valuable for a variety of wetland flora and fauna. Surrounding Oak (<i>Quercus robur</i>) – Birch (<i>Betula</i> sp.) woodland, with Willow (<i>Salix</i> sp.) and Gorse (<i>Ulex europaeus</i>) scrub and small areas of open acid grassland add diversity to the site.

Wyke School Wood SNCI	2117	SU918516	7.1 ha	Guildford	SNCI. The site is important for its large central swathe of relict wet heath. The surrounding Oak (<i>Quercus robur</i>) – Birch (<i>Betula</i> sp.) woodland is included within the SNCI boundary.
Little Flexford SNCI	2443	SU934503	1.8 ha	Guildford	Two semi-improved mesotrophic grassland paddocks divided by a central stream. Locally scarce plant species and nationally declining mammal.
Withybed Copse and Henley Park Fields SNCI	3342, 3343	SU936525, SU933520	23.3 ha	Guildford	Wet woodland and stream, mostly dominated by overstood Alder (<i>Alnus glutinosa</i>) coppice. Includes Marsh Marigold (<i>Caltha palustris</i>). Selected in 1996 for wet woodland habitat. Includes 12 Ancient Woodland Indicator species (AWI)

2.1.2 Ancient Woodland

Twenty-one sites falling within the two kilometre search area appear on the Revised Ancient Woodland Inventory¹ for the County.

Ancient woodland is defined by Natural England as a site that has had a continuous woodland cover since at least 1600 AD. It is an irreplaceable, wildlife-rich habitat, and often includes important archaeological features. Surrey is one of the most wooded parts of lowland Britain and supports approximately 37,700 ha of woodland, of which, 11,935 ha (or 7.1% of the of the County) are considered to be Ancient.

Ancient woodland is commonly divided into two broad categories, Ancient Semi-natural Woodland and Plantations on Ancient Woodland Sites. Both types of stand are classed as ancient woodland. Ancient semi-natural woodland (ASNW) stands that are composed predominantly of trees and shrubs native to the site that do not obviously originate from planting. They include stands that may have been managed by coppicing or pollarding in the past, as well as those where the tree and shrub layer has grown up by natural regeneration. Plantations on ancient woodland sites (PAWS) are areas of ancient woodland where the original native tree cover has been felled and replaced by planted stock most commonly of a species not native to the site, for example conifers such as Norway Spruce (*Picea abies*) or Corsican Pine (*Pinus nigra* var. *maritime*), but also broadleaves such as Sycamore (*Acer pseudoplatanus*) or Sweet Chestnut (*Castanea sativa*).

Ancient woodland status is determined using information from historic Ordnance Survey and other historic sources and information about the name of the wood, its shape, relief, internal boundaries and location relative to other features such as parish boundaries. Ground survey information such as flora and historical features plus aerial photography interpretation is also used when available. The original inventory was produced by Nature Conservancy Council (later English Nature) on a county-by-county basis in the 1980's and 1990's and included all sites over two hectares in size. Access to additional resources and advances in digital mapping techniques mean that it is now possible to map woodlands under two hectares with greater ease and accuracy and since 2005 this led to an on-going project to completely revise and update the Ancient Woodland Inventory across the South East. The Surrey Ancient Woodland Survey was carried out by Surrey Biodiversity Information Centre on behalf of Natural England, Forestry Commission, Surrey Hills AONB, Surrey County Council and ten Borough/District Councils from 2009 until 2011. The results of this work have now been adopted by Natural England and incorporated into the national ancient woodland inventory. The details of any ancient woodland sites contained in this report taken from the final SBIC version of this dataset. Please note, the Ancient Woodland Inventory should always be classed as "provisional" and will be reviewed and updated as new information comes to light.

The following table shows the unique identification for each site, site name (where known), an Ordnance Survey grid reference and the area of the site as shown on the Inventory. The site name and grid reference used are taken directly from the Inventory and may therefore not necessarily match those used elsewhere in this report.

Code	Wood Name (Where Identified)	Type	Borough/District	Parish	Grid Reference	Area (ha)
SRY_481		Ancient Semi-natural Woodland	Guildford District (B)	Normandy CP	SU934522	1.4
SRY_482		Ancient Semi-natural Woodland	Guildford District (B)	Normandy CP	SU926518	4.0
SRY_487a		Ancient Semi-natural Woodland	Guildford District (B)	Normandy CP	SU916503	1.2
SRY_487b		Ancient Semi-natural Woodland	Guildford District (B)	Normandy CP	SU913503	1.5
SRY_515		Ancient Semi-natural Woodland	Guildford District (B)	Normandy CP	SU933523	2.4
SRY_516		Ancient Semi-natural Woodland	Guildford District (B)	Normandy CP	SU929505	2.0
SRY_517		Ancient Semi-natural Woodland	Guildford District (B)	Normandy CP	SU926505	0.7
SRY_518		Ancient Semi-natural Woodland	Guildford District (B)	Normandy CP	SU927506	0.3
SRY_2431		Ancient Semi-natural Woodland	Guildford District (B)	Wanborough CP	SU924495	1.9
SRY_2432		Ancient Semi-natural Woodland	Guildford District (B)	Wanborough CP	SU919487	2.4
SRY_2433		Ancient Semi-natural Woodland	Guildford District (B)	Wanborough CP	SU927496	1.0
SRY_2434xy		Ancient Semi-natural Woodland	Guildford District (B)	Normandy CP	SU917511	0.5
SRY_3609		Ancient Semi-natural Woodland	Guildford District (B)	Wanborough CP	SU945492	0.8
SRY_3815b		Ancient Semi-natural Woodland	Guildford District (B)	Worplesdon CP	SU950495	0.4
SRY_4131		Ancient Semi-natural Woodland	Guildford District (B)	Normandy CP	SU915507	11.5
SRY_4132		Ancient Semi-natural Woodland	Guildford District (B)	Normandy CP	SU917500	17.1
SRY_4133		Ancient Semi-natural Woodland	Guildford District (B)	Normandy CP	SU912500	5.6
SRY_4143		Ancient Semi-natural Woodland	Guildford District (B)	Wanborough CP	SU939493	8.3
SRY_4144		Ancient Semi-natural Woodland	Guildford District (B)	Wanborough CP	SU929492	5.2
SRY_4178		Ancient Semi-natural Woodland	Guildford District (B)	Normandy CP	SU940505	1.5
SRY_6387		Ancient Semi-natural Woodland	Guildford District (B)	Wanborough CP	SU923491	49.7

3.0 Protected Species

SBIC currently holds information on a number of species protected either by national or international legislation which have been recorded from one kilometre squares falling within the two kilometre search area. This list should not be regarded as definitive and it is likely that further detailed survey work would be necessary prior to any development to ascertain the full extent of any activity. Furthermore, it should also be noted that although SBIC currently has data sharing agreements with many of Surrey's specialist recording societies we may only hold limited information for a number of important taxonomic groups. Similarly, although data transfers take place on a regular basis, we may not always hold the most up to date records for a particular area. For more detailed information on the use of sites within the study area by amphibians and reptiles, birds and protected mammals (specifically bats/roost sites and badgers/setts) please contact the following individuals or groups.

Amphibians and Reptiles

Steve Langham
Surrey Amphibian and Reptile Group
Panorama
Folly Hill
Farnham
Surrey, GU9 0BD
Email: services@surrey-arg.org.uk

Birds

County Recorder
Eric Soden
Ceres
Moushill Lane
Milford
GU8 5BQ
Email: eric.soden@talktalk.net

Bats

The Surrey Bat Group
C/O The Surrey Wildlife Trust
School Lane
Pirbright
Woking
Surrey
GU24 0JN

Badgers

West Surrey Badger Group
P.O. Box 67
Guildford
GU3 1YR
E-mail: wsbg@wsbg.co.uk

The following table lists species in taxonomic order by each one kilometre square of the search area. Information on the protected status of each species is taken from the Recorder 6 species database and *Checklist of Legally Protected British Species* (Betts 2008)² and in each case, the relevant Schedule or Annex which describes the nature and level of protection is shown. For more information please see Annex B. Please note, where a site straddles the edge of the search area all relevant records recorded from that site have been included in this report. Species records for a site are commonly assigned a locational reference based on the Ordnance Survey grid reference for the centre of that site. As such, although part of a site may legitimately fall inside a search area, its geographical centre may lie outside. As a result the following tables

may include species apparently recorded from one kilometre squares falling outside your original search area. (N.B Throughout this report, where this occurs, the relevant 1 kilometre squares are enclosed by brackets).

1Km Grid Square	Taxon Common Name	Recommended Taxon Name	UK Protected Species	European Protected Species	Date Last Recorded	Source of Record
SU9148	Blunt-leaved Bog-moss	<i>Sphagnum palustre</i>		Habitats Directive Annex 5	1995	SNCI Survey
	Common Frog	<i>Rana temporaria</i>	W&C Act 1981 (Sch. 5 Sec. 9.5a), W&C Act 1981 (Sch. 5 Sec. 9.5b)	Bern Convention Appendix 3, Habitats Directive Annex 5	1989	Herpetiles - General
	Green Woodpecker	<i>Picus viridis</i>		Bern Convention Appendix 2	1995	SNCI Survey
	Wren	<i>Troglodytes troglodytes</i>		Bern Convention Appendix 2	1995	SNCI Survey
	Robin	<i>Erithacus rubecula</i>		Bern Convention Appendix 2	1995	SNCI Survey
	Blue Tit	<i>Cyanistes caeruleus</i>		Bern Convention Appendix 2	1995	SNCI Survey
	Great Tit	<i>Parus major</i>		Bern Convention Appendix 2	1995	SNCI Survey
	Nuthatch	<i>Sitta europaea</i>		Bern Convention Appendix 2	1995	SNCI Survey
	Hedgehog	<i>Erinaceus europaeus</i>		Bern Convention Appendix 3	1999	Surrey Mammal Group
	Roe Deer	<i>Capreolus capreolus</i>		Bern Convention Appendix 3	1995	SNCI Survey
SU9149	Butcher's-Broom	<i>Ruscus aculeatus</i>		Habitats Directive Annex 5	1995	SNCI Survey
	Green Woodpecker	<i>Picus viridis</i>		Bern Convention Appendix 2	1995	SNCI Survey
	Great Spotted Woodpecker	<i>Dendrocopos major</i>		Bern Convention Appendix 2	1995	SNCI Survey
	Wren	<i>Troglodytes troglodytes</i>		Bern Convention Appendix 2	1995	SNCI Survey
	Robin	<i>Erithacus rubecula</i>		Bern Convention Appendix 2	1995	SNCI Survey
	Blue Tit	<i>Cyanistes caeruleus</i>		Bern Convention Appendix 2	1995	SNCI Survey
	Great Tit	<i>Parus major</i>		Bern Convention Appendix 2	1995	SNCI Survey
	Nuthatch	<i>Sitta europaea</i>		Bern Convention Appendix 2	1995	SNCI Survey
	Roe Deer	<i>Capreolus capreolus</i>		Bern Convention Appendix 3	1995	SNCI Survey
SU9150	Great Spotted Woodpecker	<i>Dendrocopos major</i>		Bern Convention Appendix 2	1984	SBIC - Other Records
	Wren	<i>Troglodytes troglodytes</i>		Bern Convention Appendix 2	1984	SBIC - Other Records
	Robin	<i>Erithacus rubecula</i>		Bern Convention Appendix 2	1984	SBIC - Other Records
	Blue Tit	<i>Cyanistes caeruleus</i>		Bern Convention Appendix 2	1984	SBIC - Other Records
	Nuthatch	<i>Sitta europaea</i>		Bern Convention Appendix 2	1984	SBIC - Other Records
	Roe Deer	<i>Capreolus capreolus</i>		Bern Convention Appendix 3	1984	SBIC - Other Records
SU9151	Barn Owl	<i>Tyto alba</i>	W&C Act 1981 (Sch. 1 Part 1)	Bern Convention Appendix 2	2010	SBIC - Other Records
	Weasel	<i>Mustela nivalis</i>		Bern Convention Appendix 3	2005	Mammals - General

	Roe Deer	<i>Capreolus capreolus</i>		Bern Convention Appendix 3	2009	SWT - Otters & Rivers Project
SU9248	Red Kite	<i>Milvus milvus</i>	W&C Act 1981 (Sch. 1 Part 1)	Birds Directive Annex 1	2009	SBIC - Other Records
	Roe Deer	<i>Capreolus capreolus</i>		Bern Convention Appendix 3	2007	Mammals - General
SU9249	Bluebell	<i>Hyacinthoides non-scripta</i>	W&C Act 1981 (Sch. 8)		2000	SBIC - Other Records
	Butcher's-Broom	<i>Ruscus aculeatus</i>		Habitats Directive Annex 5	1995	SNCI Survey
	Kestrel	<i>Falco tinnunculus</i>		Bern Convention Appendix 2	1999	SBIC - Other Records
	Brown Long-eared Bat	<i>Plecotus auritus</i>	The Conservation (Natural Habitats, &c.) Regulations 2010 (Sch. 2), W&C Act 1981 (Sch. 5 All Sections)	Bern Convention Appendix 2, Habitats Directive Annex 4	2010	Natural England Bat Advice Service (Roost Visit)
	West European Hedgehog	<i>Erinaceus europaeus</i>		Bern Convention Appendix 3	2007	Mammals - General
	Roe Deer	<i>Capreolus capreolus</i>		Bern Convention Appendix 3	1997	Surrey Mammal Group
SU9250	Stag Beetle	<i>Lucanus cervus</i>	W&C Act 1981 (Sch. 5 Sec. 9.5a), W&C Act 1981 (Sch. 5 Sec. 9.5b)	Bern Convention Appendix 3, Habitats Directive Annex 2 - non-priority species	1998	PTES National Stag Beetle Survey
	West European Hedgehog	<i>Erinaceus europaeus</i>		Bern Convention Appendix 3	2005	Mammals - General
	Weasel	<i>Mustela nivalis</i>		Bern Convention Appendix 3	2008	SWT - Otters & Rivers Project
SU9251	Smooth Newt	<i>Lissotriton vulgaris</i>	W&C Act 1981 (Sch. 5 Sec. 9.5a), W&C Act 1981 (Sch. 5 Sec. 9.5b)	Bern Convention Appendix 3	bef. 1997	SNCI Survey
	Great Crested Newt	<i>Triturus cristatus</i>	The Conservation (Natural Habitats, &c.) Regulations 2010 (Sch. 2), W&C Act 1981 (Sch. 5 All Sections)	Bern Convention Appendix 2, Habitats Directive Annex 2 - non-priority species, Habitats Directive Annex 4	bef. 1997	SNCI Survey
	Hedgehog	<i>Erinaceus europaeus</i>		Bern Convention Appendix 3	2001	Surrey Mammal Group
	Water Vole	<i>Arvicola amphibius</i>	W&C Act 1981 (Sch. 5 All Sections)		2000	Surrey Mammal Group
SU9252	Roe Deer	<i>Capreolus capreolus</i>		Bern Convention Appendix 3	2009	SWT - Otters & Rivers Project
	Chinese Muntjac	<i>Muntiacus reevesi</i>		Bern Convention Appendix 3	2007	Mammals - General
SU9348	Bluebell	<i>Hyacinthoides non-scripta</i>	W&C Act 1981 (Sch. 8)		1994	SNCI Survey
	Great Crested Newt	<i>Triturus cristatus</i>	The Conservation (Natural Habitats, &c.) Regulations 2010 (Sch. 2), W&C Act 1981 (Sch. 5 All Sections)	Bern Convention Appendix 2, Habitats Directive Annex 2 - non-priority species, Habitats Directive Annex 4	1998	SBIC - Other Records
	Roe Deer	<i>Capreolus capreolus</i>		Bern Convention Appendix 3	1996	Mammals - General

SU9349	Bluebell	<i>Hyacinthoides non-scripta</i>	W&C Act 1981 (Sch. 8)		1995	SNCI Survey
	Common Frog	<i>Rana temporaria</i>	W&C Act 1981 (Sch. 5 Sec. 9.5a), W&C Act 1981 (Sch. 5 Sec. 9.5b)	Bern Convention Appendix 3, Habitats Directive Annex 5	1989	Herpetiles - General
	Kestrel	<i>Falco tinnunculus</i>		Bern Convention Appendix 2	1990	SBIC - Other Records
	Little Owl	<i>Athene noctua</i>		Bern Convention Appendix 2	1990	SBIC - Other Records
	Green Woodpecker	<i>Picus viridis</i>		Bern Convention Appendix 2	1990	SBIC - Other Records
	Great Spotted Woodpecker	<i>Dendrocopos major</i>		Bern Convention Appendix 2	1990	SBIC - Other Records
	Meadow Pipit	<i>Anthus pratensis</i>		Bern Convention Appendix 2	1990	SBIC - Other Records
	Grey Wagtail	<i>Motacilla cinerea</i>		Bern Convention Appendix 2	1990	SBIC - Other Records
	White/Pied Wagtail	<i>Motacilla alba</i>		Bern Convention Appendix 2	1990	SBIC - Other Records
	Wren	<i>Troglodytes troglodytes</i>		Bern Convention Appendix 2	1990	SBIC - Other Records
	Dunnoek	<i>Prunella modularis</i>		Bern Convention Appendix 2	1990	SBIC - Other Records
	Robin	<i>Erithacus rubecula</i>		Bern Convention Appendix 2	1990	SBIC - Other Records
	Fieldfare	<i>Turdus pilaris</i>	W&C Act 1981 (Sch. 1 Part 1)		1990	SBIC - Other Records
	Redwing	<i>Turdus iliacus</i>	W&C Act 1981 (Sch. 1 Part 1)		1990	SBIC - Other Records
	Goldcrest	<i>Regulus regulus</i>		Bern Convention Appendix 2	1990	SBIC - Other Records
	Blue Tit	<i>Cyanistes caeruleus</i>		Bern Convention Appendix 2	1990	SBIC - Other Records
	Great Tit	<i>Parus major</i>		Bern Convention Appendix 2	1990	SBIC - Other Records
	Coal Tit	<i>Periparus ater</i>		Bern Convention Appendix 2	1990	SBIC - Other Records
	Marsh Tit	<i>Poecile palustris</i>		Bern Convention Appendix 2	1990	SBIC - Other Records
	Nuthatch	<i>Sitta europaea</i>		Bern Convention Appendix 2	1990	SBIC - Other Records
	Treecreeper	<i>Certhia familiaris</i>		Bern Convention Appendix 2	1990	SBIC - Other Records
	Greenfinch	<i>Carduelis chloris</i>		Bern Convention Appendix 2	1990	SBIC - Other Records
	Goldfinch	<i>Carduelis carduelis</i>		Bern Convention Appendix 2	1990	SBIC - Other Records
	Common Shrew	<i>Sorex araneus</i>		Bern Convention Appendix 3	1990	Mammals - General
	Weasel	<i>Mustela nivalis</i>		Bern Convention Appendix 3	1990	Mammals - General
	Roe Deer	<i>Capreolus capreolus</i>		Bern Convention Appendix 3	2007	SWT - Otters & Rivers Project
SU9350	Common Frog	<i>Rana temporaria</i>	W&C Act 1981 (Sch. 5 Sec. 9.5a), W&C Act 1981 (Sch. 5 Sec. 9.5b)	Bern Convention Appendix 3, Habitats Directive Annex 5	1988	Herpetiles - General
	Grass Snake	<i>Natrix natrix</i>	W&C Act 1981 (Sch. 5 Sec. 9.1 (killing/injuring)), W&C Act 1981 (Sch. 5 Sec. 9.5a), W&C Act 1981 (Sch. 5 Sec. 9.5b)	Bern Convention Appendix 3	1996	Herpetiles - General

	Water Vole	<i>Arvicola amphibius</i>	W&C Act 1981 (Sch. 5 All Sections)		2002	Surrey Mammal Group
SU9351	Stag Beetle	<i>Lucanus cervus</i>	W&C Act 1981 (Sch. 5 Sec. 9.5a), W&C Act 1981 (Sch. 5 Sec. 9.5b)	Bern Convention Appendix 3, Habitats Directive Annex 2 - non-priority species	1998	PTES National Stag Beetle Survey
SU9352	Bluebell	<i>Hyacinthoides non-scripta</i>	W&C Act 1981 (Sch. 8)		1996	SNCI Survey
	Goldfinch	<i>Carduelis carduelis</i>		Bern Convention Appendix 2	1996	SNCI Survey
	Roe Deer	<i>Capreolus capreolus</i>		Bern Convention Appendix 3	2009	SWT - Otters & Rivers Project
SU9448	Bluebell	<i>Hyacinthoides non-scripta</i>	W&C Act 1981 (Sch. 8)		1995	SNCI Survey
	Silver-studded Blue	<i>Plebejus argus</i>	W&C Act 1981 (Sch. 5 Sec. 9.5a), W&C Act 1981 (Sch. 5 Sec. 9.5b)		2004	Butterfly Conservation VC17
	Kestrel	<i>Falco tinnunculus</i>		Bern Convention Appendix 2	1995	SNCI Survey
	Green Woodpecker	<i>Picus viridis</i>		Bern Convention Appendix 2	1995	SNCI Survey
	Wren	<i>Troglodytes troglodytes</i>		Bern Convention Appendix 2	1995	SNCI Survey
	Great Tit	<i>Parus major</i>		Bern Convention Appendix 2	1995	SNCI Survey
	Nuthatch	<i>Sitta europaea</i>		Bern Convention Appendix 2	1995	SNCI Survey
SU9449	Tawny Owl	<i>Strix aluco</i>		Bern Convention Appendix 2	2010	SBIC - Other Records
	Common Shrew	<i>Sorex araneus</i>		Bern Convention Appendix 3	2000	Surrey Mammal Group
SU9450	Small Fleabane	<i>Pulicaria vulgaris</i>	W&C Act 1981 (Sch. 8)		1996	BSBI VC17
	Palmate Newt	<i>Lissotriton helveticus</i>	W&C Act 1981 (Sch. 5 Sec. 9.5a), W&C Act 1981 (Sch. 5 Sec. 9.5b)	Bern Convention Appendix 3	1989	SBIC - Other Records
	Smooth Newt	<i>Lissotriton vulgaris</i>	W&C Act 1981 (Sch. 5 Sec. 9.5a), W&C Act 1981 (Sch. 5 Sec. 9.5b)	Bern Convention Appendix 3	1989	SBIC - Other Records
	Great Crested Newt	<i>Triturus cristatus</i>	The Conservation (Natural Habitats, &c.) Regulations 2010 (Sch. 2), W&C Act 1981 (Sch. 5 All Sections)	Bern Convention Appendix 2, Habitats Directive Annex 2 - non-priority species, Habitats Directive Annex 4	-1992	SBIC - Other Records
	Common Frog	<i>Rana temporaria</i>	W&C Act 1981 (Sch. 5 Sec. 9.5a), W&C Act 1981 (Sch. 5 Sec. 9.5b)	Bern Convention Appendix 3, Habitats Directive Annex 5	1988	SBIC - Other Records
	Red Kite	<i>Milvus milvus</i>	W&C Act 1981 (Sch. 1 Part 1)	Birds Directive Annex 1	2010	SBIC - Other Records
	Common Nightingale	<i>Luscinia megarhynchos</i>		Bern Convention Appendix 2	2006	SCC Open Space
	Roe Deer	<i>Capreolus capreolus</i>		Bern Convention Appendix 3	2000	Surrey Mammal Group
SU9452	Bluebell	<i>Hyacinthoides non-scripta</i>	W&C Act 1981 (Sch. 8)		1995	SNCI Survey
	Green Woodpecker	<i>Picus viridis</i>		Bern Convention Appendix 2	2001	SBIC - Other Records
	Roe Deer	<i>Capreolus capreolus</i>		Bern Convention Appendix 3	2001	Mammals - General

SU9549	Bluebell	<i>Hyacinthoides non-scripta</i>	W&C Act 1981 (Sch. 8)		2010	Revised Ancient Woodland Inventory
SU9550	Bluebell	<i>Hyacinthoides non-scripta</i>	W&C Act 1981 (Sch. 8)		2009	Revised Ancient Woodland Inventory
	Purple Emperor	<i>Apatura iris</i>	W&C Act 1981 (Sch. 5 Sec. 9.5a), W&C Act 1981 (Sch. 5 Sec. 9.5b)		2007	Butterfly Conservation VC17
	Smooth Newt	<i>Lissotriton vulgaris</i>	W&C Act 1981 (Sch. 5 Sec. 9.5a), W&C Act 1981 (Sch. 5 Sec. 9.5b)	Bern Convention Appendix 3	1990	SBIC - Other Records
	Common Toad	<i>Bufo bufo</i>	W&C Act 1981 (Sch. 5 Sec. 9.5a), W&C Act 1981 (Sch. 5 Sec. 9.5b)	Bern Convention Appendix 3	1990	SBIC - Other Records
	Common Frog	<i>Rana temporaria</i>	W&C Act 1981 (Sch. 5 Sec. 9.5a), W&C Act 1981 (Sch. 5 Sec. 9.5b)	Bern Convention Appendix 3, Habitats Directive Annex 5	1990	SBIC - Other Records
SU9551	Stag Beetle	<i>Lucanus cervus</i>	W&C Act 1981 (Sch. 5 Sec. 9.5a), W&C Act 1981 (Sch. 5 Sec. 9.5b)	Bern Convention Appendix 3, Habitats Directive Annex 2 - non-priority species	1998	PTES National Stag Beetle Survey
	Serotine	<i>Eptesicus serotinus</i>	The Conservation (Natural Habitats, &c.) Regulations 2010 (Sch. 2), W&C Act 1981 (Sch. 5 All Sections)	Bern Convention Appendix 2, Habitats Directive Annex 4	2011	Natural England Bat Advice Service (Roost Visit)

In addition to the information presented above, SBIC currently holds information on the following species recorded from the ten kilometre squares which cover the two kilometre search area. These records are not currently held in a format which allows analysis at the same level of detail as other species records, however these records are included in this report as they provide a guide to the species which may be present within the wider search area.

1 Km Grid Square	Common Name	Scientific Name	UK Protected Species	European Protected Species	Date Last Recorded	Source of Record
SU94	Natterer's Bat	<i>Myotis nattereri</i>	The Conservation (Natural Habitats, &c.) Regulations 2010 (Sch. 2), W&C Act 1981 (Sch. 5 All Sections)	Bern Convention Appendix 2, Habitats Directive Annex 4	1983	Surrey Mammal Group
	Pipistrelle ⁱⁱ	<i>Pipistrellus pipistrellus</i>	The Conservation (Natural Habitats, &c.) Regulations 2010 (Sch. 2), W&C Act 1981 (Sch. 5 All Sections)	Bern Convention Appendix 2, Bern Convention Appendix 3, Habitats Directive Annex 4	1987	Surrey Mammal Group
SU95	Red Kite	<i>Milvus milvus</i>	W&C Act 1981 (Sch. 1 Part 1)	Birds Directive Annex 1	2005	SBIC - Other Records
	Pipistrelle	<i>Pipistrellus pipistrellus</i>	The Conservation (Natural Habitats, &c.) Regulations 2010 (Sch. 2), W&C Act 1981 (Sch. 5 All Sections)	Bern Convention Appendix 2, Bern Convention Appendix 3, Habitats Directive Annex 4	1984	Surrey Mammal Group
	Brown Long-eared Bat	<i>Plecotus auritus</i>	The Conservation (Natural Habitats, &c.) Regulations 2010 (Sch. 2), W&C Act 1981 (Sch. 5 All Sections)	Bern Convention Appendix 2, Habitats Directive Annex 4	2008	BCT Bechstein's Bat Project

Any work or activity likely to affect any species covered by a relevant Schedule of the Wildlife and Countryside Act, must first be referred to the local office of Natural England. For more information please contact;

Natural England
South-East Region (Worthing Office)
Guildbourne House, Chatsworth Road
Worthing, BN11 1LD

Tel: 0300 060 0300

ⁱⁱ Research in the early 1990's first suggested that the bat formerly known as the Common Pipistrelle was in fact two different but closely related species. Detailed physical and DNA analysis has now confirmed that this is the case. The two species; the Common Pipistrelle (*Pipistrellus pipistrellus*) and the Soprano Pipistrelle (*Pipistrellus pipistrellus*) are normally differentiated by differences in their peak echolocation frequency.

4.0 Notable / Rare Species

SBIC currently holds information on the following species recorded from one kilometre squares falling within the two kilometre search area which are thought to be rare or notable at either a national or a regional level. In each case, the known distribution of all populations (both native and non-native) as shown in the relevant County atlas is also shown where available.

Once again, the following table lists species by one kilometre square and then by taxonomic order. Information on the national status of each species is taken from the Recorder 6 species database. For more information please see Annex B.

1Km Grid Square	Taxon Common Name	Recommended Taxon Name	National Species Status	Surrey Status	Date Last Recorded	Source of Record
SU9148	Small-leaved Sweet-briar	<i>Rosa agrestis</i>	IUCN (2001) - Lower Risk - Near Threatened	Very Rare and mainly round Thursley, Witley and Puttenham ³ , 1987; Rare, 1 ten kilometre square ⁴	1995	BSBI VC17
	Hound's-tongue	<i>Cynoglossum officinale</i>	IUCN (2001) - Lower Risk - Near Threatened	Locally Frequent, 37 tetrads, "Chalk grassland and scrub, often around rabbit warrens, wood borders, and sandy commons", 1987; 15 ten kilometre squares	2009	BSBI VC17
	Lesser Hairy-brome	<i>Bromopsis benekenii</i>	Nationally Scarce	Rare, 4 tetrads, "wooded slopes on the chalk, usually under beeches", 1987; Rare, 3 ten kilometre squares	1991	BSBI VC17
	Small Heath	<i>Coenonympha pamphilus</i>	IUCN (2001) - Lower Risk - Near Threatened	Fairly Widespread and Common ⁵ , 2000; 175 tetrads ⁶	2009	Butterfly Conservation VC17
	Bee Wolf	<i>Philanthus triangulum</i>	IUCN (pre 1994) - Vulnerable	Ubiquitous. 338 records ⁷	1998	BWARS VC17
	a solitary bee	<i>Andrena flosa</i>	IUCN (pre 1994) - Rare	Locally Very Common ⁸	2004	BWARS VC17
	a solitary bee	<i>Lasioglossum pauxillum</i>	Nationally Notable A	Common	2000	BWARS VC17
	a solitary bee	<i>Stelis breviscula</i>	RDB - Insuff known	Very Local	1998	BWARS VC17
	a solitary bee	<i>Heriades truncorum</i>	RDB - Insuff known	Local	2000	BWARS VC17
	Green Woodpecker	<i>Picus viridis</i>	BOCC3 - Amber	Common breeding resident ⁹	1995	SNCI Survey
	Skylark	<i>Alauda arvensis</i>	BOCC3 - Red	Common but reduced breeding resident	1995	SNCI Survey
	Mistle Thrush	<i>Turdus viscivorus</i>	BOCC3 - Amber	Common breeding resident	1995	SNCI Survey
	Willow Warbler	<i>Phylloscopus trochilus</i>	BOCC3 - Amber	Common summer visitor, breeding annually	1995	SNCI Survey
	Bullfinch	<i>Pyrrhula pyrrhula</i>	BOCC3 - Amber	Common breeding resident	1995	SNCI Survey

SU9149	Green Woodpecker	<i>Picus viridis</i>	BOCC3 - Amber	Common breeding resident	1995	SNCI Survey
	Mistle Thrush	<i>Turdus viscivorus</i>	BOCC3 - Amber	Common breeding resident	1995	SNCI Survey
	Willow Warbler	<i>Phylloscopus trochilus</i>	BOCC3 - Amber	Common summer visitor, breeding annually	1995	SNCI Survey
SU9150	White Admiral	<i>Limenitis camilla</i>	IUCN (2001) - Vulnerable	Fairly Widespread and Fairly Common, 2000; 102 tetrads	2009	Butterfly Conservation VC17
	House Sparrow	<i>Passer domesticus</i>	BOCC3 - Red	Locally common breeding resident	1984	SBIC - Other Records
	Bullfinch	<i>Pyrrhula pyrrhula</i>	BOCC3 - Amber	Common breeding resident	1984	SBIC - Other Records
SU9151	Loose Silky-bent	<i>Apera spica-venti</i>	IUCN (2001) - Lower Risk - Near Threatened	Locally Frequent, 113 tetrads "Cornfields, persisting for a time on roadsides, field borders and waste places", 1987; 22 ten kilometre squares	1987	BSBI VC17
	Grayling	<i>Hipparchia semele</i>	IUCN (2001) - Vulnerable	Local but Fairly Common, 2000; 48 tetrads, Regional Conservation Priority; Medium	1996	Butterfly Conservation VC17
	Red Wood Ant	<i>Formica rufa</i>	IUCN (1994) - Lower Risk - Near Threatened	Frequent in Open Woodland ¹⁰	2000	BWARS VC17
	a solitary bee	<i>Andrena florea</i>	IUCN (pre 1994) - Rare	Locally Very Common	2007	BWARS VC17
	Barn Owl	<i>Tyto alba</i>	BOCC3 - Amber	Scarce breeding resident	2010	SBIC - Other Records
SU9248	Loose Silky-bent	<i>Apera spica-venti</i>	IUCN (2001) - Lower Risk - Near Threatened	Locally Frequent, 113 tetrads "Cornfields, persisting for a time on roadsides, field borders and waste places", 1987; 22 ten kilometre squares	1991	BSBI VC17
	White Helleborine	<i>Cephalanthera damasonium</i>	IUCN (2001) - Vulnerable	Locally Common, 61 tetrads, "Woods and shady lanesides on calcareous soils and usually under beech", 1987; 11 ten kilometre squares	2008	BSBI VC17
	White Admiral	<i>Limenitis camilla</i>	IUCN (2001) - Vulnerable	Fairly Widespread and Fairly Common, 2000; 102 tetrads	1998	Butterfly Conservation VC17
	Small Heath	<i>Coenonympha pamphilus</i>	IUCN (2001) - Lower Risk - Near Threatened	Fairly Widespread and Common, 2000; 175 tetrads	1997	Butterfly Conservation VC17
	a solitary bee	<i>Andrena florea</i>	IUCN (pre 1994) - Rare	Locally Very Common	2000	BWARS VC17
	a solitary bee	<i>Lasioglossum pauxillum</i>	Nationally Notable A	Common	1997	BWARS VC17
	Blue Carpenter Bee	<i>Ceratina cyanea</i>	IUCN (pre 1994) - Rare	Locally Common	1996	BWARS VC17

	Red Kite	<i>Milvus milvus</i>	BOCC3 - Amber	Lost resident, now a scarce but increasing passage migrant	2009	SBIC - Other Records
SU9249	Greater Butterfly-Orchid	<i>Platanthera chlorantha</i>	IUCN (2001) - Lower Risk - Near Threatened	Rare, 40 tetrads, "Woods, copses, scrub, and rarely in grassland, on chalk or Weald clay. Usually in small numbers and decreasing", 1987; 14 ten kilometre squares	2000	SBIC - Other Records
	Kestrel	<i>Falco tinnunculus</i>	BOCC3 - Amber	Moderately common breeding resident	1999	SBIC - Other Records
SU9250	Stag Beetle	<i>Lucanus cervus</i>	Nationally Notable B	Local, avoiding clay (and chalky) soils but can be common in London suburbs, especially in gardens. ¹¹	1998	PTES National Stag Beetle Survey
SU9251	Galingale	<i>Cyperus longus</i>	IUCN (2001) - Lower Risk - Near Threatened	Rare, 8 tetrads, "Streams, ditches, wet meadows and pond margins, sometimes in very wild looking situations, 1987; 11 ten kilometre squares	1994	BSBI VC17
	Green-winged Orchid	<i>Anacamptis morio</i>	IUCN (2001) - Lower Risk - Near Threatened	Rare, 15 tetrads, "Usually in small numbers on chalk grassland, but most abundant in pastures which have never been ploughed, on wet clay soils,, has suffered a spectacular decrease in the past 30 years", 1987; Rare, 11 ten kilometre squares	2010	BSBI VC17
	Brilliant Emerald	<i>Somatochlora metallica</i>	IUCN (2001) - Vulnerable	60 tetrads, Confirmed, Local ¹²	1997	British Dragonfly Society VC17
	White Admiral	<i>Limenitis camilla</i>	IUCN (2001) - Vulnerable	Fairly Widespread and Fairly Common, 2000; 102 tetrad	2006	Butterfly Conservation VC17
	a solitary bee	<i>Andrena florea</i>	IUCN (pre 1994) - Rare	Locally Very Common	2007	BWARS VC17
SU9252	Petty whin	<i>Genista anglica</i>	IUCN (2001) - Lower Risk - Near Threatened	Locally Frequent, 89 tetrads "Rough and somewhat damp ground on commons and heaths", 1987; 22 ten kilometre squares	1982	BSBI VC17
	Grayling	<i>Hipparchia semele</i>	IUCN (2001) - Vulnerable	Restricted but Fairly Common, 2000; 61 tetrads, Regional Conservation Priority; High	1998	Butterfly Conservation VC17
	Golden-tabbed Robberfly	<i>Eutolmus rufibarbis</i>	IUCN (pre 1994) - Rare		2001	BWARS VC17
	a fly	<i>Conops strigatus</i>	Nationally Notable		2001	BWARS VC17

SU9348	Sainfoin	<i>Onobrychis viciifolia</i>	IUCN (2001) - Lower Risk - Near Threatened	Frequent on the chalk, 1987; 5 ten kilometre squares "apparently more restricted in its distribution than was thought"	1990	BSBI VC17
	a solitary bee	<i>Lasioglossum malachurum</i>	Nationally Notable B	Ubiquitous	1999	BWARS VC17
	a solitary bee	<i>Melitta tricincta</i>	Nationally Notable B	Locally Common	2006	BWARS VC17
SU9349	Kestrel	<i>Falco tinnunculus</i>	BOCC3 - Amber	Moderately common breeding resident	1990	SBIC - Other Records
	Lapwing	<i>Vanellus vanellus</i>	BOCC3 - Red	Moderately common breeding resident	1990	SBIC - Other Records
	Black-Headed Gull	<i>Chroicocephalus ridibundus</i>	BOCC3 - Amber	Common winter visitor, has bred	1990	SBIC - Other Records
	Lesser Black-Backed Gull	<i>Larus fuscus</i>	BOCC3 - Amber	Moderately common passage migrant and winter visitor	1990	SBIC - Other Records
	Herring Gull	<i>Larus argentatus</i>	BOCC3 - Red	Moderately common, mainly in winter, has bred	1990	SBIC - Other Records
	Stock Dove	<i>Columba oenas</i>	BOCC3 - Amber	Moderately common breeding resident	1990	SBIC - Other Records
	Green Woodpecker	<i>Picus viridis</i>	BOCC3 - Amber	Common breeding resident	1990	SBIC - Other Records
	Skylark	<i>Alauda arvensis</i>	BOCC3 - Red	Common, but reduced breeding resident	1990	SBIC - Other Records
	Meadow Pipit	<i>Anthus pratensis</i>	BOCC3 - Amber	Moderately common resident and winter visitor, breeding annually	1990	SBIC - Other Records
	Grey Wagtail	<i>Motacilla cinerea</i>	BOCC3 - Amber	Moderately common breeding resident	1990	SBIC - Other Records
	Dunnock	<i>Prunella modularis</i>	BOCC3 - Amber	Common breeding resident	1990	SBIC - Other Records
	Fieldfare	<i>Turdus pilaris</i>	BOCC3 - Red	Common winter visitor	1990	SBIC - Other Records
	Song Thrush	<i>Turdus philomelos</i>	BOCC3 - Red	Common breeding resident	1990	SBIC - Other Records
	Redwing	<i>Turdus iliacus</i>	BOCC3 - Red	Common winter visitor	1990	SBIC - Other Records
	Mistle Thrush	<i>Turdus viscivorus</i>	BOCC3 - Amber	Common breeding resident	1990	SBIC - Other Records
	Marsh Tit	<i>Poecile palustris</i>	BOCC3 - Red	Moderately common breeding resident	1990	SBIC - Other Records
	Bullfinch	<i>Pyrrhula pyrrhula</i>	BOCC3 - Amber	Common breeding resident	1990	SBIC - Other Records
SU9350	Corn Spurrey	<i>Spergula arvensis</i>	IUCN (2001) - Vulnerable	Common "a weed in arable fields, waste ground and sandy tracksides", 1987; 23 ten kilometre squares	1995	BSBI VC17
SU9351	Stag Beetle	<i>Lucanus cervus</i>	Nationally Notable B	Local, avoiding clay (and chalky) soils but can be common in London suburbs, especially in gardens	1998	PTES National Stag Beetle Survey
SU9352	Mousetail	<i>Myosurus minimus</i>	IUCN (2001) - Vulnerable	Very Rare, 5 tetrads, "Wet corners of cornfields where water has stood during the winter, field gateways, arable, garden weed. Probably always on clay, decreasing rapidly", 1987; 4 ten kilometre squares	1989	BSBI VC17

	Corn Spurrey	<i>Spergula arvensis</i>	IUCN (2001) - Vulnerable	Common "a weed in arable fields, waste ground and sandy tracksides", 1987; 23 ten kilometre squares	1988	BSBI VC17
	Corn Marigold	<i>Chrysanthemum segetum</i>	IUCN (2001) - Vulnerable	Locally Frequent, 112 tetrads "Arable fields on acid soils, mainly on sand", 1987; 25 ten kilometre squares	1988	BSBI VC17
	Loose Silky-bent	<i>Apera spica-venti</i>	IUCN (2001) - Lower Risk - Near Threatened	Locally Frequent, 113 tetrads "Cornfields, persisting for a time on roadsides, field borders and waste places", 1987; 22 ten kilometre squares	1988	BSBI VC17
	Small Heath	<i>Coenonympha pamphilus</i>	IUCN (2001) - Lower Risk - Near Threatened	Fairly Widespread and Common, 2000; 175 tetrads	1998	Butterfly Conservation VC17
	Red Wood Ant	<i>Formica rufa</i>	IUCN (1994) - Lower Risk - Near Threatened	Frequent in Open Woodland	1998	BWARS VC17
	Blue Carpenter Bee	<i>Ceratina cyanea</i>	IUCN (pre 1994) - Rare	Locally Common	2005	BWARS VC17
SU9448	Stinking Hellebore	<i>Helleborus foetidus</i>	Nationally Scarce	Rare, 12 tetrads "Woods on the chalk. Almost certainly native in several places", 1987; Rare, 7 ten kilometre squares "Only rare as a supposed native"	1995	BSBI VC17
	Loose Silky-bent	<i>Apera spica-venti</i>	IUCN (2001) - Lower Risk - Near Threatened	Locally Frequent, 113 tetrads "Cornfields, persisting for a time on roadsides, field borders and waste places", 1987; 22 ten kilometre squares	2000	BSBI VC17
	White Helleborine	<i>Cephalanthera damasonium</i>	IUCN (2001) - Vulnerable	Locally Common, 61 tetrads, "Woods and shady lanesides on calcareous soils and usually under beech", 1987; 11 ten kilometre squares	1995	BSBI VC17
	Man Orchid	<i>Aceras anthropophorum</i>	IUCN (2001) - Endangered	Locally Common, 32 tetrads, "Chalk grassland, scrub, wood borders and chalk pits", 1987; 10 ten kilometre squares	1982	BSBI VC17
	Fly Orchid	<i>Ophrys insectifera</i>	IUCN (2001) - Vulnerable	Locally Frequent, 34 tetrads, "Woods and wood borders, lanes, scrub, and abandoned quarries, always on chalk", 1987; 10 ten kilometre squares	1995	BSBI VC17

	Silver-studded Blue	<i>Plebejus argus</i>	IUCN (2001) - Vulnerable	Restricted but Common, 2000; 37 tetrads, Regional Conservation Priority; High	2004	Butterfly Conservation VC17
	White Admiral	<i>Limenitis camilla</i>	IUCN (2001) - Vulnerable	Fairly Widespread and Fairly Common, 2000; 102 tetrads	2004	Butterfly Conservation VC17
	Large Yellow-Faced Bee	<i>Hylaeus signatus</i>	Nationally Notable B	Local	2003	BWARS VC17
	a solitary bee	<i>Andrena florea</i>	IUCN (pre 1994) - Rare	Locally Very Common	2005	BWARS VC17
	a solitary bee	<i>Andrena minutuloides</i>	Nationally Notable A	Local	2006	BWARS VC17
	Hill Cuckoo Bee	<i>Bombus rupestris</i>	Nationally Notable B	Local	2006	BWARS VC17
	Kestrel	<i>Falco tinnunculus</i>	BOCC3 - Amber	Moderately common breeding resident	1995	SNCI Survey
	Green Woodpecker	<i>Picus viridis</i>	BOCC3 - Amber	Common breeding resident	1995	SNCI Survey
	Song Thrush	<i>Turdus philomelos</i>	BOCC3 - Red	Common breeding resident	1995	SNCI Survey
	Starling	<i>Sturnus vulgaris</i>	BOCC3 - Red	Common breeding resident	1995	SNCI Survey
SU9450	Small Fleabane	<i>Pulicaria vulgaris</i>	IUCN (2001) - Critically Endangered	Very Rare, perhaps extinct, "Gravelly pond margins, especially where ducks and geese are kept", 1987; Rare, 2 ten kilometre squares	1996	BSBI VC17
	Corn Marigold	<i>Chrysanthemum segetum</i>	IUCN (2001) - Vulnerable	Locally Frequent, 112 tetrads "Arable fields on acid soils, mainly on sand", 1987; 25 ten kilometre squares	1985	BSBI VC17
	White Admiral	<i>Limenitis camilla</i>	IUCN (2001) - Vulnerable	Fairly Widespread and Fairly Common, 2000; 102 tetrads	1999	Butterfly Conservation VC17
	a solitary bee	<i>Stelis punctulatissima</i>	Nationally Notable B	Very Local	1996	BWARS VC17
	Red Kite	<i>Milvus milvus</i>	BOCC3 - Amber	Lost resident, now a scarce but increasing passage migrant	2010	SBIC - Other Records
	European Turtle Dove	<i>Streptopelia turtur</i>	BOCC3 - Red	Moderately common but declining summer visitor, breeding annually	2007	SCC Open Space
	Nightingale	<i>Luscinia megarhynchos</i>	BOCC3 - Amber	Locally common summer visitor, breeding annually	2006	SCC Open Space
SU9452	Common Cudweed	<i>Filago vulgaris</i>	IUCN (2001) - Lower Risk - Near Threatened	Rare, 27 tetrad, "Cultivated fields, commons and heaths, usually on acid sandy soils. A decreasing species", 1987; 14 ten kilometre squares	2001	SBIC - Other Records
	Small Heath	<i>Coenonympha pamphilus</i>	IUCN (2001) - Lower Risk - Near Threatened	Fairly Widespread and Common, 2000; 175 tetrads	2008	Butterfly Conservation VC17
	a social wasp	<i>Dolichovespula saxonica</i>	RDB - Insuff known	Common	2007	BWARS VC17

	Green Woodpecker	<i>Picus viridis</i>	BOCC3 - Amber	Common breeding resident	2001	SBIC - Other Records
SU9549	Dwarf Spurge	<i>Euphorbia exigua</i>	IUCN (2001) - Lower Risk - Near Threatened	Frequent, 87 tetrads "Most common on the chalk, and on neutral soil on the Weald Clay, and scattered elsewhere. In gardens and arable fields", 1987; 21 ten kilometre squares	2009	BSBI VC17
	Loose Silky-bent	<i>Apera spica-venti</i>	IUCN (2001) - Lower Risk - Near Threatened	Locally Frequent, 113 tetrads "Cornfields, persisting for a time on roadsides, field borders and waste places", 1987; 22 ten kilometre squares	2009	BSBI VC17
	Lesser Hairy-brome	<i>Bromopsis benekenii</i>	Nationally Scarce	Rare, 4 tetrads, "Wooded slopes on the chalk, usually under beeches", 1987; Rare, 3 ten kilometre squares	2010	Revised Ancient Woodland Inventory
	White Admiral	<i>Limenitis camilla</i>	IUCN (2001) - Vulnerable	Fairly Widespread and Fairly Common, 2000; 102 tetrads	2007	Butterfly Conservation VC17
	Cuckoo	<i>Cuculus canorus</i>	BOCC3 - Red	Moderately common summer visitor, breeding annually	2010	Revised Ancient Woodland Inventory
SU9550	White Admiral	<i>Limenitis camilla</i>	IUCN (2001) - Vulnerable	Fairly Widespread and Fairly Common, 2000; 102 tetrads	2007	Butterfly Conservation VC17
	Purple Emperor	<i>Apatura iris</i>	IUCN (2001) - Lower Risk - Near Threatened	Restricted but not Uncommon, 2000; 37 tetrads, Regional Conservation Priority; High	2007	Butterfly Conservation VC17
	a solitary bee	<i>Lasioglossum malachurum</i>	Nationally Notable B	Ubiquitous	1997	BWARS VC17
	Nightingale	<i>Luscinia megarhynchos</i>	BOCC3 - Amber	Locally common summer visitor, breeding annually		SNCI Survey
SU9551	Chamomile	<i>Chamaemelum nobile</i>	IUCN (2001) - Vulnerable	Rare, 32 tetrads, "Damp short grass on commons, roadsides and especially near ponds used by geese and ducks. A decreasing species but persistent in some old localities", 1987; 15 ten kilometre squares	2010	BSBI VC17
	Stag Beetle	<i>Lucanus cervus</i>	Nationally Notable B	Local, avoiding clay (and chalky) soils but can be common in London suburbs, especially in gardens	1998	PTES National Stag Beetle Survey
	Grayling	<i>Hipparchia semele</i>	IUCN (2001) - Vulnerable	Local but Fairly Common, 2000; 48 tetrads, Regional Conservation Priority; Medium	1997	Butterfly Conservation VC17

In addition to the information presented above, SBIC currently holds information on the following species recorded from the ten kilometre squares which cover the two kilometre search area. These records are not currently held in a format which allows analysis at the same level of detail as other species records, however these records are included in this report as they provide a guide to the species which may be present within the wider search area.

1 Km Grid Square	Taxon Common Name	Recommended Taxon Name	National Species Status	Surrey Status	Date Last Recorded	Source of Record
SU95	Brilliant Emerald	<i>Somatochlora metallica</i>	IUCN (2001) - Vulnerable	60 tetrads, Confirmed, Local	1994	British Dragonfly Society VC17
	Red Kite	<i>Milvus milvus</i>	BOCC3 - Amber	Lost resident, now a scarce but increasing passage migrant	2005	SBIC - Other Records

5.0 UK Biodiversity Action Plan - Priority Species

The following species which appear on the revised list of UK BAP Priority species have been recorded from the one kilometre squares falling within the two kilometre search area. Once again, the following table lists species by one kilometre square and then by taxonomic order. For more information please see Annex B.

1Km Grid Square	Taxon Common Name	Recommended Taxon Name	Biodiversity Action Plan Species (2007)	Date Last Recorded	Source of Record
SU9148	Small Heath	<i>Coenonympha pamphilus</i>	UK BAP Priority Species	2009	Butterfly Conservation VC17
	Hedgehog	<i>Erinaceus europaeus</i>	UK BAP Priority Species	1999	Surrey Mammal Group
SU9150	White Admiral	<i>Limenitis camilla</i>	UK BAP Priority Species	2009	Butterfly Conservation VC17
	House Sparrow	<i>Passer domesticus</i>	UK BAP Priority Species	1984	SBIC - Other Records
SU9151	Grayling	<i>Hipparchia semele</i>	UK BAP Priority Species	1996	Butterfly Conservation VC17
SU9248	White Helleborine	<i>Cephalanthera damasonium</i>	UK BAP Priority Species	2008	BSBI VC17
	White Admiral	<i>Limenitis camilla</i>	UK BAP Priority Species	1998	Butterfly Conservation VC17
	Small Heath	<i>Coenonympha pamphilus</i>	UK BAP Priority Species	1997	Butterfly Conservation VC17
SU9249	Brown Long-eared Bat	<i>Plecotus auritus</i>	UK BAP Priority Species	2010	Natural England Bat Advice Service (Roost Visit)
	West European Hedgehog	<i>Erinaceus europaeus</i>	UK BAP Priority Species	2007	Mammals - General
SU9250	Stag Beetle	<i>Lucanus cervus</i>	UK BAP Priority Species	1998	PTES National Stag Beetle Survey
	West European Hedgehog	<i>Erinaceus europaeus</i>	UK BAP Priority Species	2005	Mammals - General
SU9251	White Admiral	<i>Limenitis camilla</i>	UK BAP Priority Species	2006	Butterfly Conservation VC17
	Great Crested Newt	<i>Triturus cristatus</i>	UK BAP Priority Species	bef. 1997	SNCI Survey
	Hedgehog	<i>Erinaceus europaeus</i>	UK BAP Priority Species	2001	Surrey Mammal Group
	Water Vole	<i>Arvicola amphibius</i>	UK BAP Priority Species	2000	Surrey Mammal Group
SU9252	Grayling	<i>Hipparchia semele</i>	UK BAP Priority Species	1998	Butterfly Conservation VC17

SU9348	Great Crested Newt	<i>Triturus cristatus</i>	UK BAP Priority Species	1998	SBIC - Other Records
SU9349	Lapwing	<i>Vanellus vanellus</i>	UK BAP Priority Species	1990	SBIC - Other Records
	House Sparrow	<i>Passer domesticus</i>	UK BAP Priority Species	1990	SBIC - Other Records
	Yellowhammer	<i>Emberiza citrinella</i>	UK BAP Priority Species	1990	SBIC - Other Records
	Brown Hare	<i>Lepus europaeus</i>	UK BAP Priority Species	1990	Mammals - General
SU9350	Grass Snake	<i>Natrix natrix</i>	UK BAP Priority Species	1996	Herpetiles - General
	Water Vole	<i>Arvicola amphibius</i>	UK BAP Priority Species	2002	Surrey Mammal Group
SU9351	Stag Beetle	<i>Lucanus cervus</i>	UK BAP Priority Species	1998	PTES National Stag Beetle Survey
SU9352	Small Heath	<i>Coenonympha pamphilus</i>	UK BAP Priority Species	1998	Butterfly Conservation VC17
SU9448	Juniper	<i>Juniperus communis</i>	UK BAP Priority Species	1991	BSBI VC17
	Cornflower	<i>Centaurea cyanus</i>	UK BAP Priority Species	2000	BSBI VC17
	White Helleborine	<i>Cephalanthera damasonium</i>	UK BAP Priority Species	1995	BSBI VC17
	Man Orchid	<i>Aceras anthropophorum</i>	UK BAP Priority Species	1982	BSBI VC17
	Fly Orchid	<i>Ophrys insectifera</i>	UK BAP Priority Species	1995	BSBI VC17
	Silver-studded Blue	<i>Plebejus argus</i>	UK BAP Priority Species	2004	Butterfly Conservation VC17
	White Admiral	<i>Limnitis camilla</i>	UK BAP Priority Species	2004	Butterfly Conservation VC17
SU9450	Small Fleabane	<i>Pulicaria vulgaris</i>	UK BAP Priority Species	1996	BSBI VC17
	White Admiral	<i>Limnitis camilla</i>	UK BAP Priority Species	2007	Butterfly Conservation VC17
	Great Crested Newt	<i>Triturus cristatus</i>	UK BAP Priority Species	-1992	SBIC - Other Records
	European Turtle Dove	<i>Streptopelia turtur</i>	UK BAP Priority Species	2007	SCC Open Space
SU9452	Small Heath	<i>Coenonympha pamphilus</i>	UK BAP Priority Species	2008	Butterfly Conservation VC17
SU9549	White Admiral	<i>Limnitis camilla</i>	UK BAP Priority Species	2007	Butterfly Conservation VC17
	Cuckoo	<i>Cuculus canorus</i>	UK BAP Priority Species	2010	Revised Ancient Woodland Inventory
SU9550	White Admiral	<i>Limnitis camilla</i>	UK BAP Priority Species	2007	Butterfly Conservation VC17
	Common Toad	<i>Bufo bufo</i>	UK BAP Priority Species	1990	SBIC - Other Records
SU9551	Chamomile	<i>Chamaemelum nobile</i>	UK BAP Priority Species	2010	BSBI VC17

	Stag Beetle	<i>Lucanus cervus</i>	UK BAP Priority Species	1998	PTES National Stag Beetle Survey
	Grayling	<i>Hipparchia semele</i>	UK BAP Priority Species	1997	Butterfly Conservation VC17

In addition to the information presented above, SBIC currently holds information on the following species recorded from the ten kilometre squares which cover the two kilometre search area. These records are not currently held in a format which allows analysis at the same level of detail as other species records, however these records are included in this report as they provide a guide to the species which may be present within the wider search area.

1 Km Grid Square	Taxon Common Name	Recommended Taxon Name	Biodiversity Action Plan Species (2007)	Date Last Recorded	Source of Record
SU95	Brown Long-eared Bat	<i>Plecotus auritus</i>	UK BAP Priority Species	2008	BCT Bechstein's Bat Project

Annex A – Site Maps