

Ashfield Land Management and Gazeley GLP Northampton s.à.r.l

Annex A: Background Data Search Report (Part 2 - Junction 15a)

Rail Central

855950





RSK GENERAL NOTES

Project No.: 855950 Title: Rail Central Background Data Search Report (Junction 15a) Client: Ashfield Land Management Limited and Gazeley GLP Northampton s.à.r.l Date: 8 February 2018 Office: Coventry Status: Final **Technical Author** reviewer Stephen Phillips Roberta Epps Signature Signature 8 February 2018 8 February 2018 Date: Date: **Project manager Quality reviewer** Tom Coyne Roberta Epps Signature Signature 8 February 2018 8 February 2018

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Date:

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1 METHODS

Background Data Search

A search was made in January 2018 for reference materials relating to the ecology of the study area (*Figure A1*), and a list of sources is given in *Table A1*.

Table A1: Data Sources

Information Obtained	Available From
Protected and Noteworthy species-records	Northamptonshire Biodiversity Records Centre
Designated site locations and citations	Natural England website
Designated site locations and citations	Northamptonshire Biodiversity Records Centre
Designations and legal protection of noteworthy species	Joint Nature Conservation Committee (JNCC) website
Details of species and habitats listed on the LBAP	Local BAP website

A search was made for information on International statutory designated sites, important globally for ecology within 10 km of the site boundary. National statutory designated sites that are important nationally were searched for within 5 km of the site boundary and non-statutory designated sites, often important in a local context, were searched for within 2 km of the site boundary. A search was made for records of noteworthy species within the same 2 km area extending to 5 km for Bats. Species included in the search parameters were:

- European protected species (listed on Schedules 2 and 4 of The Conservation of Habitats and Species (Amendment) Regulations 2012);
- Nationally protected species under Schedules 1, 5 and 8 of The Wildlife & Countryside Act 1981 and The Protection of Badgers Act 1992;
- Species listed as Critically Endangered, Endangered or Vulnerable on the IUCN 2001 Red List
- All species listed on the RSPB Birds of Conservation Concern 4 as Red or Amber;
- Species listed on *The Convention for the Protection of the Marine Environment of the North-East Atlantic* (the OSPAR Convention);
- Nationally Rare or Nationally Scarce species;
- · Notable invertebrates; and
- Species of Principal Importance under The Natural Environment and Rural Communities (NERC) Act (2006) or Priority Species under the Local Biodiversity Action Plan.



2 RESULTS

Background Data Search

Biodiversity Action Plans

Habitats that might qualify as Habitats of Principal importance (Habitats of Principal Importance) under *The Natural Environment and Rural Communities (NERC)*Act (2006) are Hedgerows, Arable Field Margins, and Rivers and Ponds.

The latest Northamptonshire local biodiversity action plan (LBAP) lists 16 Habitat Action Plans (HAPs) and two Species Action Plans (SAPs). The local HAPs and SAPs that are relevant to the proposed development are;

Habitats:

- Arable field margins
- Eutrophic standing waters
- Floodplain grazing marsh
- Hedgerows
- Lowland calcareous grassland
- · Lowland dry acid grassland
- Lowland fen
- Lowland heathland
- Lowland meadow
- Lowland mixed deciduous woodland
- · Open mosaic habitats on previously developed land
- Ponds
- Reedbed
- Rivers
- Traditional orchards
- Wet woodland
- · Wood-pasture and parkland

Species

- Physcia clementii (a Lichen)
- Barn Owl
- Black Hairstreak
- Black Poplar
- Plot's Elm
- Lime Bark Beetle
- Nightingale



Designated Sites

Statutory Sites

There are 2 international statutory designated sites within 10km of the site boundary, comprising 1 RAMSAR and 1 Special Protection Area (SPA). There are also 6 national statutory designated sites within 5 km of the site boundary, comprising 2 Sites of Special Scientific Interest (SSSI) and 4 Local Nature Reserves (LNR). These sites are shown on *Figure A2.2* and are listed in *Table A2* in order of proximity to the site; short descriptions (when available) are given for the sites within 2km of the site boundary.

Table A2: Statutory Designated Sites

Site Name	Designation	Approximate Distance (m)
Storton's Pits	LNR	2080
Blisworth Rectory Farm Quarry	SSSI	3130
Roade Cutting	SSSI	3520
Tiffield Pocket Park	LNR	3560
Barnes Meadow	LNR	4180
Kingsthorpe	LNR	4760
Upper Nene Valley Gravel Pits	RAMSAR & SPA	5740

SSSI Impact Risk Zones

There are several SSSIs in the wider area. The site intersects SSSI Impact Risk Zones for these sites. Natural England will need to be consulted if the proposed works meets any of the following criteria.

- Airports, helipads and other aviation proposals.
- Solar schemes with footprint > 0.5ha, all wind turbines.
- Pig & poultry units, slurry lagoons > 4000m³.
- General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.
- Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill.
- Any discharge of water or liquid waste that is more than 20m³/day. The water needs to either be discharged to ground (ie to seep away) or to surface water, such as a beck or stream. Discharges to mains sewer are excluded.

Non-statutory Sites

There are 39 non-statutory designated sites within 2 km of the site boundary, comprising 15 Local Wildlife Sites (LWS) two of which are also designated as Local Geological Site (LGS) and 24 Potential Wildlife Sites (pWS). They are listed in *Table A3* in order of proximity to the site; short descriptions are given for the sites within 1km



of the site boundary. Some areas identified as potential wildlife sites have not been assessed by the designating authority and therefore full descriptions are unavailable.

Table A3: Non-Statutory Designated Sites

Site Name	Designation	Approximate
		Distance (m)
Grand Union Canal - Northampton Arm	LWS	On site
This narrow arm of the Grand Union connects the markiver Nene via Northampton City. Despite its usefuln neglected and frequently stopped and the waterway rampant aquatic vegetation; on the whole it seems the	ess as a through fa at the city end has l	re the locks are itter hazards and
239	pWS	On Site
No description available for this potential wildlife site. and West of the A43. Aerial imagery suggests that the scrub and an area of grassland which is also adjacer may also be marshy.	e area consists of v	voodland or
250	pWS	10
No description available for this potential wildlife site. proposed development area. Aerial imagery shows a		
249	pWS	230
No description available for this potential wildlife site proposed development area. Aerial imagery shows a		southwest of the
Shelfleys Lake	LWS	350
A lake on the edge of Northampton with a wide marginal fringe of wetland vegetation. This site qualifies as a Wildlife Site with 11 wetland indicators recorded and supports a range of invertebrates.		
248	pWS	530
No description available for this potential wildlife site. proposed development area. Aerial imagery shows a		southwest of the
Hunsbury Hill Country Park	LWS/LGS	550
The site originally qualified as an LWS under the woo provide a useful habitat alongside the woodland.	odland criteria. The	grassland also
Swan Valley Meadow	pWS	500
Owarr valicy incadow	pvvo	590
The site is situated between a brook and the Northar In the south of the site is a lake with a small island. A species from the Fen, Swamp and Marsh indicator species.	mpton arm of the Gr brief view of the la	and Union canal.
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Site Name	Designation	Approximate Distance (m)
Banbury Lane Meadow	pWS	1060
Hunsbury Hill Cutting	LWS / LGS	1080
Land adjacent to Wootton Railway Embankment	pWS	1090
241	pWS	1230
Grange Wood (Penn Valley)	pWS	1250
Collingtree Golf Course	LWS	1260
Duston Mill Fields South	pWS	1280
Upton East Field	LWS	1290
Hill Farm Quarry East	pWS	1350
246	pWS	1380
Upton Mill South Lake	LWS	1420
240	pWS	1420
Gayton Reserve Lake	LWS	1450
Gayton Meadow	pWS	1460
Camp Lane & Drain	LWS	1530
Duston West Meadow	LWS	1600
Duston Mill Fields	pWS	1650
Duston West Wood	pWS	1670
242	pWS	1760
Upton Mill Dyke	LWS	1790
244	pWS	1790
Upton Mill North Lake	LWS	1810
243	pWS	1910
Upton Pasture East	pWS	1940
Duston Gravel Pit	LWS	1960
Duston Flood Channel	pWS	1970
247	pWS	1990
Bottom Spinney	LWS	1990

Other Notable Sites

There are no areas of ancient woodland within 2k of the site boundary.

Protected and Noteworthy Species

At least 170 protected or noteworthy species are recorded from places within 2 km of the site boundary, extending to 5km for bats. Of these, 2 are amphibians, 35 are birds, 1 is a crustacean, 1 is a fish, 63 are invertebrates, 14 are mammals (of these 9 are bats), 53 are plants and 1 is a reptile. Species that are protected by law under Schedules 2 and 5 of The Conservation of Habitats and Species (Amendment)



Regulations 2012, Schedules 2, 5 and 8 of The Wildlife and Countryside Act 1981 or The Protection of Badgers Act 1992 and have been recorded in the search area are listed in the Table A4 below (excluding species protected only against collection for sale); a full species list is given in Appendix 1.

Table A4: Protected Species Records

Latin Name	Common Name	Designation	Within 100m	Within 2km	Within 5km (Bats only)
Amphibians					
Triturus cristatus	Great Crested Newt	EPS (Sch2), WCA5		\boxtimes	
Birds					
Alcedo atthis	Kingfisher	WCA1.1	Р		
Anas querquedula	Garganey	WCA1.1			
Anser anser	Greylag Goose	WCA1.2		\boxtimes	
Falco columbarius	Merlin	WCA1.1		\boxtimes	
Falco subbuteo	Hobby	WCA1.1	Р	\boxtimes	
Tyto alba	Barn Owl	WCA1.1		\boxtimes	
Crustacean					
Austropotamobius pallipes	White-clawed Crayfish	WCA5			
Mammals					
Arvicola amphibius	European Water Vole	WCA5	\boxtimes	\boxtimes	
Lutra lutra	European Otter	EPS (Sch2), WCA5			
Meles meles	Badger	BA			
Myotis daubentonii	Daubenton's Bat	EPS (Sch2), WCA5			\boxtimes
Myotis mystacinus	Whiskered Bat	EPS (Sch2), WCA5			
Myotis mystacinus / brandti	Whiskered/Brandt's Bat	EPS (Sch2), WCA5		\boxtimes	
Myotis nattereri	Natterer's Bat	EPS (Sch2), WCA5			
Nyctalus noctula	Noctule Bat	EPS (Sch2), WCA5		P	
Pipistrellus pipistrellus	Common Pipistrelle	EPS (Sch2), WCA5		Р	
Pipistrellus pygmaeus	Soprano Pipistrelle	EPS (Sch2), WCA5		\boxtimes	
Pipistrellus sp.	Pipistrelle Bat Species	EPS (Sch2), WCA5	Р	\boxtimes	
Plecotus auritus	Brown Long-eared Bat	EPS (Sch2), WCA5			\boxtimes
Plants					
Lactuca saligna	Least Lettuce	WCA8		Р	
Reptiles					
Natrix natrix	Grass Snake	WCA5	Р	\boxtimes	

Note - P relates to records with 4 figure or tetrad grid references that could potentially be anywhere within a 1 km or 2 km square.



APPENDIX A – NOTEWORTHY SPECIES RECORDS

Table A5 lists all protected and noteworthy species records within the 2km search area, extending to 5 km for bats. The Latin and common names for species are given as well as their level of designation. A glossary defining abbreviations used in the table is given in Table A6, Appendix B. If a species is not included in the table below it does not necessarily mean the species is absent from the search area, but rather that data-holding organizations do not have records of it in these locations.

Table A5: All Protected and noteworthy Species Records:

Latin Name	Common Name	Designation
Amphibians		
Bufo bufo	Common Toad	WCA5, S41
Triturus cristatus	Great Crested Newt	EPS(Sch2), WCA5, S41
Birds		
Acanthis flammea	Common (Mealy) Redpoll	Amber
Actitis hypoleucos	Common Sandpiper	Amber
Alcedo atthis	Kingfisher	WCA1.1, Amber
Anas clypeata	Shoveler	Amber
Anas crecca	Teal	Amber
Anas platyrhynchos	Mallard	Amber
Anas querquedula	Garganey	WCA1.1, Amber
Anas strepera	Gadwall	Amber
Anser anser	Greylag Goose	WCA1.2, Amber
Aythya ferina	Pochard	Red
Chroicocephalus ridibundus	Black-headed Gull	Amber
Columba oenas	Stock Dove	Amber
Cuculus canorus	Cuckoo	S41, Red
Cygnus olor	Mute Swan	Amber
Emberiza citrinella	Yellowhammer	S41, Red
Emberiza schoeniclus	Reed Bunting	S41, Amber
Falco columbarius	Merlin	WCA1.1, Red
Falco subbuteo	Hobby	WCA1.1
Falco tinnunculus	Kestrel	Amber
Motacilla cinerea	Grey Wagtail	Red
Motacilla flava	Yellow Wagtail	S41, Red
Motacilla flava subsp. thunbergi	Grey-headed Wagtail	S41, Red
Passer domesticus	House Sparrow	S41, Red
Passer montanus	Tree Sparrow	S41, Red
Perdix perdix	Grey Partridge	S41, Red
Phylloscopus trochilus	Willow Warbler	Amber
Prunella modularis	Dunnock	S41, Amber



Latin Name	Common Name	Designation
Pyrrhula pyrrhula	Bullfinch	S41, Amber
Sterna hirundo	Common Tern	Amber
Streptopelia turtur	Turtle Dove	S41, Red
Sturnus vulgaris	Starling	S41, Red
Tringa totanus	Redshank	Amber
Turdus philomelos	Song Thrush	S41, Red
Tyto alba	Barn Owl	WCA1.1, Amber
Vanellus vanellus	Lapwing	S41, Red
Crustacean		
Austropotamobius pallipes	White-clawed Crayfish	WCA5, S41
Fish		
Anguilla anguilla	European Eel	S41, OSPAR
Invertebrates		
Abraxas sylvata	Clouded Magpie	Locally Notable
Acronicta psi	Grey Dagger	S41
Acronicta rumicis	Knot Grass	S41
Agrotis cinerea	Light Feathered Rustic	Locally Notable
Amphipyra tragopoginis	Mouse Moth	S41
Angerona prunaria	Orange Moth	Locally Notable
Apamea anceps	Large Nutmeg	S41
Apamea remissa	Dusky Brocade	S41
Apoda limacodes	Festoon	Locally Notable
Aporophyla lutulenta	Deep-brown Dart	S41
Atethmia centrago	Centre-barred Sallow	S41
Atolmis rubricollis	Red-necked Footman	Locally Notable
Boudinotiana notha	Light Orange Underwing	Locally Notable
Caradrina morpheus	Mottled Rustic	S41
Celaena leucostigma	Crescent	S41
Ceramica pisi	Broom Moth	S41
Chesias legatella	Streak	S41
Cirrhia gilvago	Dusky-lemon Sallow	S41
Cirrhia icteritia	Sallow	S41
Coenonympha pamphilus	Small Heath	S41
Colostygia multistrigaria	Mottled Grey	Locally Notable
Cucullia absinthii	Wormwood	Locally Notable
Diarsia rubi	Small Square-spot	S41
Eilema sororcula	Orange Footman	Locally Notable
Ennomos erosaria	September Thorn	S41
Ennomos fuscantaria	Dusky Thorn	S41
Ennomos quercinaria	August Thorn	S41
Eulithis mellinata	Spinach	S41
Eupithecia insigniata	Pinion-spotted Pug	Locally Notable
Eupithecia valerianata	Valerian Pug	Locally Notable
Eupithecia venosata	Netted Pug	Locally Notable
Euxoa nigricans	Garden Dart	S41



Latin Name	Common Name	Designation
Gyrinus aeratus	Gyrinus aeratus	NS
Heliophobus reticulata	Bordered Gothic	S41
Hemistola chrysoprasaria	Small Emerald	S41
Heterogenea asella	Triangle	Locally Notable
Hydraecia micacea	Rosy Rustic	S41
Hydria cervinalis	Scarce Tissue	Locally Notable
Lasiommata megera	Wall	S41
Leptidea sinapis	Wood White	WCA5, S41, GB RDB(EN)
Litoligia literosa	Rosy Minor	S41
Macaria wauaria	V-Moth	S41
Melanchra persicariae	Dot Moth	S41
Microvelia (Microvelia) pygmaea	Microvelia (Microvelia) pygmaea	Notable:B
Mniotype adusta	Dark Brocade	S41
Mythimna pudorina	Striped Wainscot	Locally Notable
Nyctobrya muralis	Marbled Green	Locally Notable
Orgyia recens	Scarce Vapourer	S41
Orthosia opima	Northern Drab	Locally Notable
Pelurga comitata	Dark Spinach	S41
Perconia strigillaria	Grass Wave	Locally Notable
Photedes fluxa	Mere Wainscot	Locally Notable
Phyllonorycter joannisi	White-bodied Midget	Locally Notable
Plagodis pulveraria	Barred Umber	Locally Notable
Polia bombycina	Pale Shining Brown	S41
Rhizedra lutosa	Large Wainscot	S41
Satyrium pruni	Black Hairstreak	WCA5, GB RDB(EN)
Scotopteryx chenopodiata	Shaded Broad-bar	S41
Spaelotis ravida	Stout Dart	Locally Notable
Synanthedon myopaeformis	Red-belted Clearwing	Locally Notable
Thera juniperata	Juniper Carpet	Locally Notable
Trichopteryx polycommata	Barred Tooth-striped	S41
Tyria jacobaeae	Cinnabar	S41
Mammals		
Arvicola amphibius	European Water Vole	WCA5, S41
Erinaceus europaeus	West European Hedgehog	S41
Lepus europaeus	Brown Hare	S41
Lutra lutra	European Otter	EPS(Sch2), WCA5, S41
Meles meles	Eurasian Badger	BA
Myotis daubentonii	Daubenton's Bat	EPS (Sch2), WCA5
Myotis mystacinus	Whiskered Bat	EPS (Sch2), WCA5
Myotis mystacinus / brandti	Whiskered/Brandt's Bat	EPS (Sch2), WCA5
Myotis nattereri	Natterer's Bat	EPS (Sch2), WCA5
Nyctalus noctula	Noctule Bat	EPS (Sch2), WCA5
Pipistrellus pipistrellus	Common Pipistrelle	EPS (Sch2), WCA5
Pipistrellus pygmaeus	Soprano Pipistrelle	EPS (Sch2), WCA5
Pipistrellus sp.	Pipistrelle Bat Species	EPS (Sch2), WCA5
Plecotus auritus	Brown Long-eared Bat	EPS (Sch2), WCA5



Latin Name	Common Name	Designation
Plants, Trees, Moss and Lichens		
Agrostis vinealis	Brown Bent	Locally Notable
Aira praecox	Early Hair-grass	Locally Notable
Aquilegia vulgaris	Columbine	Locally Notable
Briza media	Quaking-grass	Locally Notable
Bromus racemosus	Smooth Brome	Locally Notable
Campanula rotundifolia	Harebell	Locally Notable
Carex pulicaris	Flea Sedge	Locally Notable
Carex rostrata	Bottle Sedge	Locally Notable
Carlina vulgaris	Carline Thistle	Locally Notable
Ceratodon conicus	Scarce Redshank	S41, GB RDB(CR), NR
Chenopodium bonus-henricus	Good-King-Henry	GB RDB(VU), ENG BSBI RDB(VU)
Cichorium intybus	Chicory	ENG BSBI RDB(VU)
Deschampsia flexuosa	Wavy Hair-grass	Locally Notable
Equisetum sylvaticum	Wood Horsetail	Locally Notable
Filago vulgaris	Common Cudweed	Locally Notable
Fragaria vesca	Wild Strawberry	Locally Notable
Glebionis segetum	Corn Marigold	GB RDB(VU), ENG BSB RDB(VU)
Hyacinthoides non-scripta	Bluebell	WCA8
Juncus compressus	Round-fruited Rush	ENG BSBI RDB(VU)
Knautia arvensis	Field Scabious	Locally Notable
Lactuca saligna	Least Lettuce	WCA8, S41, GB RDB(EN), ENG BSBI RDB(EN), NR
Lathyrus linifolius	Bitter-vetch	Locally Notable
Mentha arvensis	Corn Mint	Locally Notable
Menyanthes trifoliata	Bogbean	Locally Notable
Myriophyllum verticillatum	Whorled Water-milfoil	GB RDB(VU)
Narcissus pseudonarcissus	Daffodil	
subsp. pseudonarcissus		Locally Notable
Nitellopsis obtusa	Starry Stonewort	S41, GB RDB(VU)
Oenanthe fistulosa	Tubular Water-dropwort	S41, GB RDB(VU), ENG BSBI RDB(VU)
Ononis spinosa	Spiny Restharrow	Locally Notable
Oxalis acetosella	Wood-sorrel	Locally Notable
Papaver argemone	Prickly Poppy	GB RDB(VU), ENG BSB RDB(EN)
Pinus sylvestris	Scots Pine	NS
Plantago media	Hoary Plantain	Locally Notable
Poa humilis	Spreading Meadow-grass	Locally Notable
Potamogeton compressus	Grass-wrack Pondweed	S41, GB RDB(EN), ENG BSBI RDB(EN), NS
Potamogeton friesii	Flat-stalked Pondweed	ENG BSBI RDB(VU), NS
Potamogeton praelongus	Long-stalked Pondweed	ENG BSBI RDB(EN)
Potentilla erecta	Tormentil	Locally Notable
Pterygoneurum lamellatum	Spiral Chalk-moss	NR



Latin Name	Common Name	Designation
Ranunculus flammula	Lesser Spearwort	ENG BSBI RDB(VU)
Ranunculus peltatus	Pond Water-crowfoot	Locally Notable
Sagina nodosa	Knotted Pearlwort	ENG BSBI RDB(VU)
Sanicula europaea	Sanicle	Locally Notable
Sedum telephium	Orpine	Locally Notable
Senecio aquaticus	Marsh Ragwort	Locally Notable
Silene noctiflora	Night-flowering Catchfly	GB RDB(VU), ENG BSBI RDB(VU)
Spergula arvensis	Corn Spurrey	GB RDB(VU), ENG BSBI RDB(VU)
Spergularia rubra	Sand Spurrey	Locally Notable
Umbilicus rupestris	Navelwort	Locally Notable
Valeriana dioica	Marsh Valerian	Locally Notable
Valeriana officinalis	Common Valerian	Locally Notable
Verbascum lychnitis	White Mullein	NS
Veronica officinalis	Heath Speedwell	Locally Notable
Reptiles		
Natrix natrix	Grass Snake	WCA5, S41



APPENDIX B – ABBREVIATIONS

Table A6 displays abbreviations of protected species legislation.

Table A6: Glossary of Abbreviations Used in this Report:

Code	Full Title	Explanation
Amber	Amber list	Amber listed species have a population status in the UK of medium conservation concern.
BA	The Protection of Badgers Act 1992	Legislation making it an offence to kill, injure or take a Badger, or to damage or interfere with a sett unless a licence is obtained from a statutory authority.
ВАР	Biodiversity Action Plan	A plan that identifies threats to significantly important species and habitats, and sets out targets and actions to enhance or maintain biodiversity.
DA	The Deer Act 1991	All wild deer with the exception of Muntjac (<i>Muntiacus reevesi</i>) and Chinese Water deer (<i>Hydropotes inermis</i>) are protected by a closed season.
EPS (Sch 2)	European Protected Species (Schedule 2)	Animals protected on <i>Schedule 2</i> of the <i>Conservation (Natural Habitats &c.) Regulations</i> 1994
НАР	Habitat Action Plan	A plan that identifies threats to a priority habitat and sets out targets and actions to enhance or maintain that habitat.
IUCN	International Union for Conservation of Nature and Natural Resources (also known as The World Conservation Union)	A worldwide partnership and conservation network to influence, encourage and assist societies throughout the world to conserve the integrity and diversity of nature and to ensure that any use of natural resources is equitable and ecologically sustainable.
LBAP	Local Biodiversity Action Plan	A plan that identifies threats to locally important species and habitats, and sets out targets and actions in Species Action Plans and Habitat Action Plans to enhance or maintain biodiversity at the county or regional level.
LHAP	Local Habitat Action Plan	A plan that identifies threats to a locally important priority habitat and sets out targets and actions to enhance or maintain that habitat.
LSAP	Local Species Action Plan	A plan that identifies threats to locally important species, and sets out targets and actions to



Code	Full Title	Explanation
		prevent losing that species from the local area.
Notable	Scarce and threatened invertebrates	Invertebrate species which are estimated to occur within the range of 16 to 100 10km squares but subdivision into Notable A and Notable B categories is not possible as there is insufficient information available).
Notable:A	Scarce and threatened invertebrates	Taxa which do not fall within Red Data Book categories but which are none-the-less uncommon in Great Britain and thought to occur in 30 or fewer 10km squares of the National Grid or, for less well-recorded groups, within seven or fewer vice-counties.
Notable: B	Scarce and threatened invertebrates	Taxa which do not fall within Red Data Book categories but which are none-the-less uncommon in Great Britain and thought to occur in between 31 and 100 10km squares of the National Grid or, for less-well recorded groups between eight and twenty vice-counties.
NN	Nationally Notable	Designation for invertebrate taxa that are thought to be notably important in the UK.
NR	Nationally Rare	Species in 15 or fewer hectads in Great Britain.
NS	National Scarce	Species in 16-100 hectads in Great Britain.
Red	Red List	Red listed species have a population status in the UK with high conservation concern.
RDB	Red Data Book Species	Species identified in one of the UK Red Data books.
RDB(CR)	Critically Endangered	An IUCN Red List designation for species at an extremely high risk of extinction.
RDB(EN)	Endangered	An IUCN Red List designation for species at a very high risk of extinction.
RDB(VU)	Vulnerable	An IUCN Red List designation for species at high risk of extinction.
SAP	Species Action Plan	A plan that identifies threats to significantly important species, and sets out targets and actions to prevent losing that species to extinction.
UKBAP	UK Biodiversity Action Plan	A plan that identifies threats to locally important species and habitats, and sets out targets and actions in Species Action Plans and Habitat Action Plans to enhance or maintain biodiversity in the UK.
UKSAP	UK Species Action Plan	A plan that identifies threats to nationally important species, and sets out targets and actions to prevent the decline or extinction of the species in the UK.
WCA	The Wildlife and Countryside Act 1981	Containing 4 Parts and 17 Schedules, the Act covers protection of wildlife (birds, and some



Code	Full Title	Explanation
	(as amended)	animals and plants), the countryside, National Parks, and the designation of protected areas, and public rights of way. All wild plants in Britain are protected from intentional uprooting by an unauthorized person, but land owners, land occupiers, persons authorized by either of these or persons authorized in writing by the Local Authority for the area are exempt. Protection for some species may be limited to certain Sections of the Act (e.g. S13(2).
WCA1	Schedule 1 of The Wildlife and Countryside Act 1981 (as amended)	This Schedule lists birds protected by special penalties at all times, but virtually all wild birds have some protection in law.
	(as amended)	Acts which are prohibited for all wild birds (except derogated 'pest' species) include intentional killing, injuring or taking; taking, damaging or destroying nests in use or being built; taking or destroying eggs; possessing or having control of (with certain exceptions but including live for dead birds, parts or derivative); setting or permitting certain traps, weapons, decoys or poisons. Selling, offering or exposing for sale, possessing or transporting for sale any live wild bird, egg or part of an egg or advertising any of these for sale, or dead wild bird including parts or derivatives are also prohibited. Many birds must be formally registered and ringed if kept in captivity. Schedule I WCA birds are additionally protected from intentional or reckless disturbance while
		building a nest, or when such a bird is in, on or near a nest containing eggs or young, or intentional or reckless disturbance of dependent young.
WCA5	Schedule 5 of The Wildlife and Countryside Act 1981 (as amended)	Schedule 5 animals are protected from intentional killing, injuring or taking; possessing (including parts or derivatives); intentional or reckless damage, destruction or obstruction of any structure or place used for shelter or protection; selling, offering or exposing for sale, possessing or transporting for the purpose of sale (alive or dead, including parts or derivatives). Protection of some species is limited to certain Sections of the Act (e.g. S9(1), S9(4a), S9(4b), S9(5)).
WCA5.9.1	Section 9 (1) under Schedule 5 of <i>The</i> Wildlife and Countryside Act 1981 (as amended)	Protection limited to intentional killing, injury or taking.
WCA5.9.4a	Section 9 (4a) under Schedule 5 of <i>The</i>	Protection limited to damaging, destroying, or obstructing access to, any structure or place used



Code	Full Title	Explanation
	Wildlife and Countryside Act 1981 (as amended)	by the animal for shelter or protection.
WCA5.9.5	Section 9 (5) under Schedule 5 of The Wildlife and Countryside Act 1981 (as amended)	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 animal. Note that all cetaceans (whales and dolphins) and the Basking Shark (<i>Cetorhinus maximus</i>) are now protected from intentional or reckless disturbance.
WCA8	Schedule 8 of The Wildlife and Countryside Act 1981 (as amended)	Plants and fungi protected from intentional picking, uprooting, destroying, trading (including parts or derivatives), <i>etc</i> .



APPENDIX C - FIGURES

Figure A1.2 Site Location Map

Figure A2.2 Designated Sites Plan



