

Stratford-on-Avon District Council

Ecological and Geological Study of Local Service Villages

Settlement Assessment: Welford-on-Avon

Designated sites:

Status and Name	Are in hectares	Grid ref.	Description
SSSI Welford Field	2.12	SP1352	
Local Wildlife Sites			
SP15Li8f River Avon	352.12	SP2686	Water courses
SP15L8 Duck Lane Meadows	1.70	SP1495	Semi-natural grasslands & marsh
SP15L5 Binton Road Verge	0.65	SP1435	Semi-natural grasslands & marsh
SP15Li8f River Avon	352.12	SP2661	Water courses
LWS potential site			
SP15F1 Cress Hill	2.60	SP1425	Semi-natural grasslands & marsh
SP15L6 Riverside Meadows	4.92	SP1415	Semi-natural grasslands & marsh
SP15L1 Alls Meadows	10.17	SP1495	Semi-natural grasslands & marsh
SP15K7 Welford-on-Avon Flood Meadow	3.61	SP1445	Semi-natural grasslands & marsh
SP15L2 2 Neglected Fields	4.62	SP1525	Semi-natural grasslands & marsh
SP15K4 Church	0.43	SP1585	Semi-natural grasslands & marsh
SP15K2 Ash Coppice	1.07	SP1475	Woodland & scrub
SP15L7 Welford on Avon Churchyard	0.12	SP1455	Semi-natural grasslands & marsh
LWS rejected			
SP15K6 Cress Hill	4.12	SP1425	Woodland & scrub

Key Target Notes

- SP15k17 - Flood meadow alongside River Avon
- SP15l18 – Semi-improved grassland meadow
- SP15l26 – Semi improved grasslands between dismantled railway line and River Avon
- SP15l4 – Disused railway line and embankment

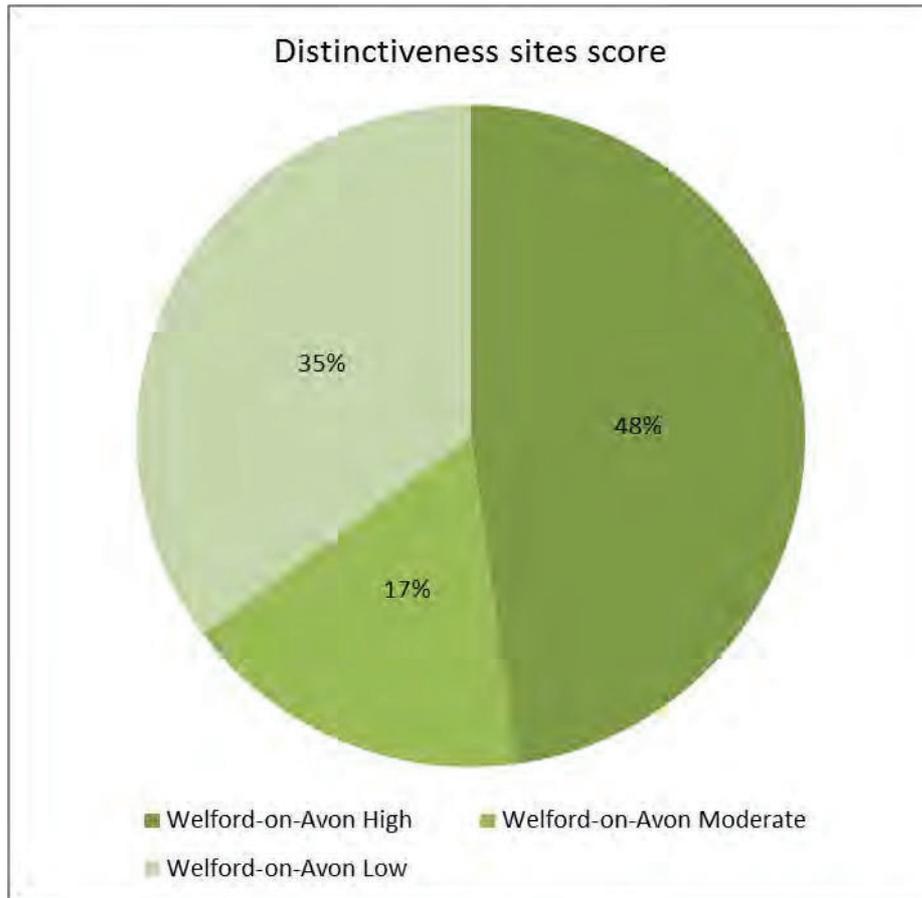
Habitat Description

The habitats for Welford-on-Avon with high distinctiveness scores are those closely associated with the River Avon. These include the semi-improved neutral and marshy grasslands, in particular are the meadows associated with the Welford Field SSSI and the Duck Land Meadows LWS. Other potential local wildlife meadow sites have also been noted along the River.

Other sites of semi-natural grassland are along the dismantled railway line, which is also a linear scrubland habitat and corridor.

Sites of semi-natural woodland have also been noted as potential wildlife sites including Ash Coppice and Cress Hill.

Distinctiveness Phase 1 habitats	No. of sites	Area in hectares	Score
High			
A111 Broad-leaved semi-natural woodland	23	7.73	69
A5 Orchard (commercial)	4	1.25	12
B22 Semi-improved neutral grassland	17	18.47	51
B5 Marsh/marshy grassland	2	1.58	6
F22 Inundation vegetation	1	0.03	3
G1 Standing water	8	1.69	24
G2 Running water	7	28.28	21
Sub Total	62	59.01	186
Moderate			
A112 Broad-leaved plantation	6	1.57	12
A21 Dense/continuous scrub	11	3.75	22
A22 Scattered scrub	6	2.87	18
B6 Semi-improved neutral grassland	10	10.83	20
Sub Total	33	19.02	72
Low			
A132 Mixed plantation	3	0.98	3
B4 Improved grassland	48	98.96	48
C31 Tall ruderal	11	1.64	22
J11 Arable	19	143.76	19
J12 Amenity grassland	52	70.16	104
J14 Introduced shrub	1	0.08	1
J4 Bare ground	3	1.55	3
Sub Total	137	317.12	200
Totals	232	395.16	458



Geological Description

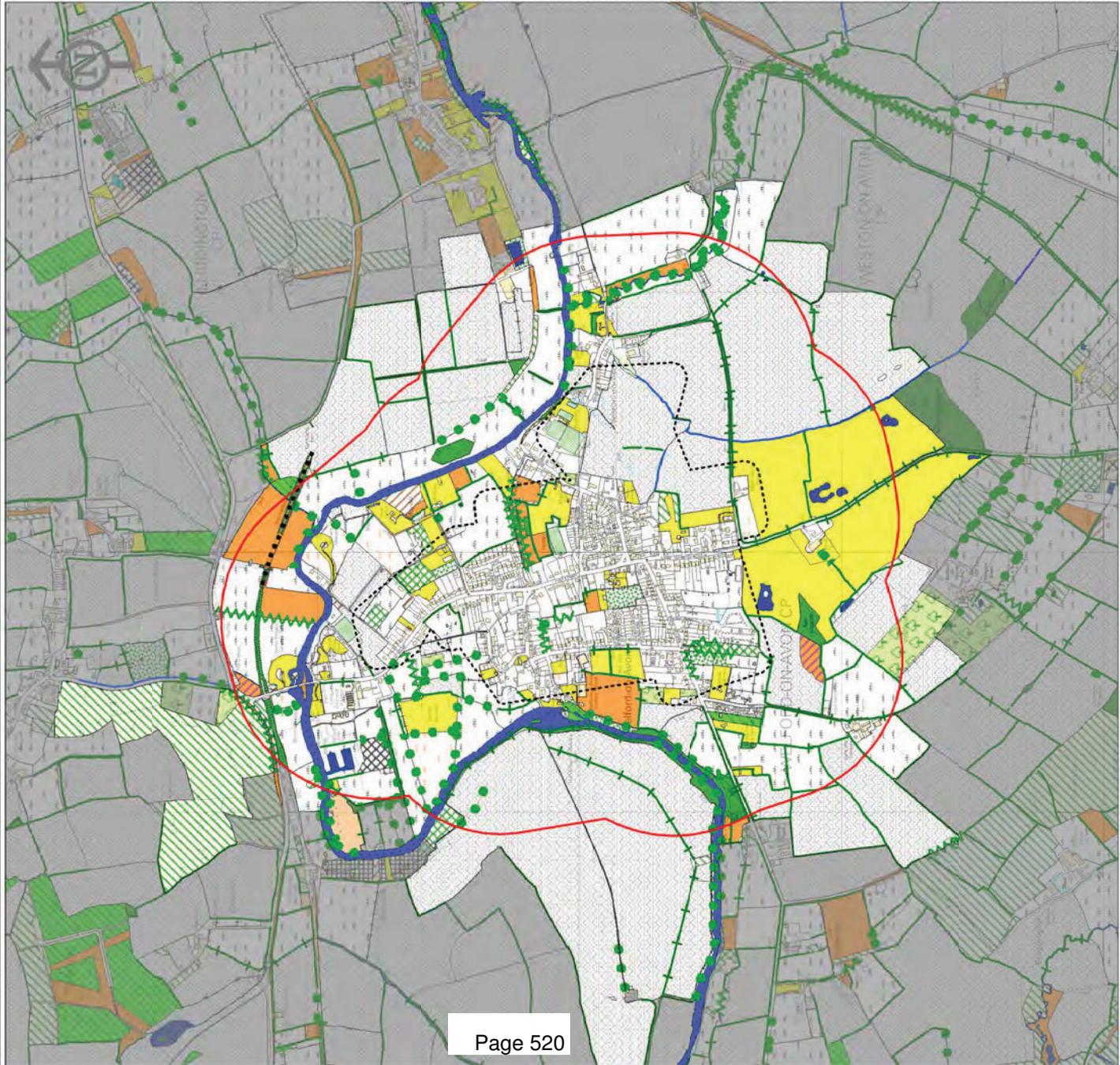
Welford-on-Avon has much potential for its Quaternary geology (principally river deposits), overlying early Jurassic bedrock. Any excavations into natural geology would be of potential interest for purposes of recording and/or museum collecting.

Protected Species

Grass snake, smooth newt, wall butterfly and the bat species of common and soprano pipistrelles, brown long-eared, whiskered/brandts, noctule and an indeterminate bat species have been recorded in the settlement area. The rare plants of common calamint and musk stork's-bill have also been recorded in the settlement boundary. In the wider area there are additional records of brown hare, barn owl, smooth newt, great crested newt, harvest mouse, badger and black poplar with additional bat record of daubenton plus a butterfly record of white-letter hairstreak, dingy skipper, grizzled skipper and small heath. There are also rare plants including venus's looking glass, dropwort, rough hawksbeard, shoreweed, branched bur-reed ssp., treacle mustard, large-flowered hemp nettle, flat sedge, wild pear, cat-mint and wild pansy in the wider area.

Recommendations for Further Survey

- Grassland meadows alongside River Avon
- Dismantled railway line



PHASE 1 HABITAT SURVEY

- Habitat Types
- | | | | |
|--|---|--|--------------------------------------|
| | A111 (Broad-leaved semi-natural woodland) | | C32 (Non-ruderal) |
| | A112 (Broad-leaved plantation) | | D5 (Dry heath/acid grassland mosaic) |
| | A121 (Coniferous semi-natural woodland) | | E11 (Sphagnum Bog) |
| | A122 (Coniferous plantation) | | E21 (Acid/neutral flush) |
| | A131 (Mixed semi-natural woodland) | | E31 (Valley mire) |
| | A132 (Mixed plantation) | | E32 (Basin mire) |
| | A21 (Dense/continuous scrub) | | F1 (Swamp) |
| | A22 (Scattered scrub) | | F22 (Inundation vegetation) |
| | A31 (Broad-leaved parkland/scattered trees) | | G1 (Standing water) |
| | A32 (Coniferous parkland/scattered trees) | | G2 (Running water) |
| | A4 (Recently felled woodland) | | I21 (Quarry) |
| | A5 (Orchard) | | I22 (Spill) |
| | B11 (Unimproved acidic grassland) | | I23 (Mire) |
| | B12 (Semi-improved acidic grassland) | | I24 (Refuse tip) |
| | B21 (Unimproved neutral grassland) | | J11 (Arable) |
| | B22 (Semi-improved neutral grassland) | | J112 (Allotments) |
| | B31 (Unimproved calcareous grassland) | | J113 (Set-aside) |
| | B32 (Semi-improved calcareous grassland) | | J12 (Amenity grassland) |
| | B4 (Improved grassland) | | J13 (Ephemeral/short perennial) |
| | B5 (Marsh/marshy grassland) | | J14 (Introduced shrub) |
| | B6 (Poor semi-improved grassland) | | J36 (Buildings) |
| | C11 (Continuous bracken) | | J4 (Bare ground) |
| | C31 (Tall ruderal) | | |

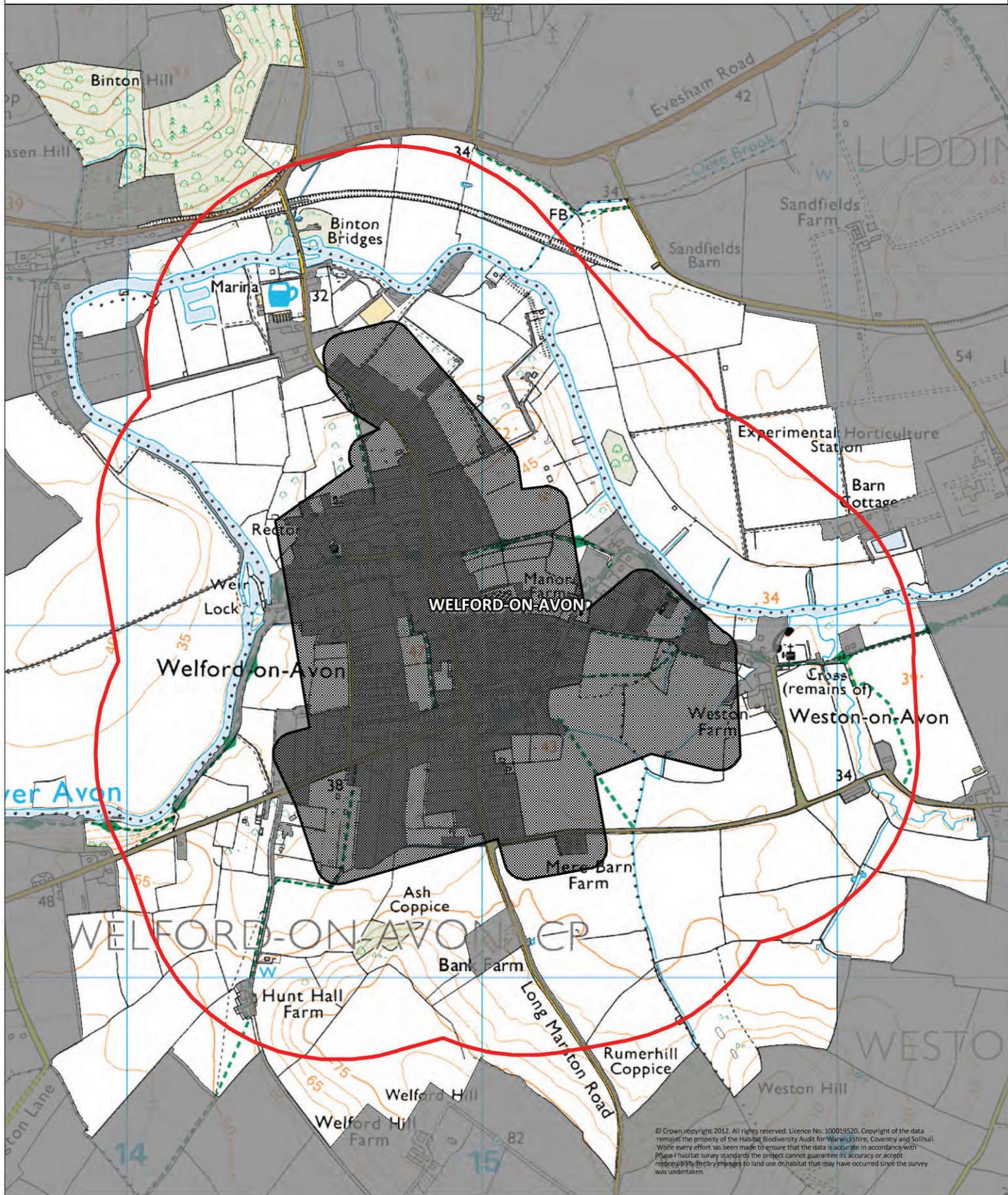
- Linear Features
- | | | | |
|--|---|--|---|
| | A21 (Linear Scrub) | | J23 (Hedge with Trees) |
| | A3 (Linear Trees) | | J231 (Native Species Rich Hedge with Trees) |
| | G1 (Standing Water) | | J24 (Fence) |
| | G2 (Running Water) | | J25 (Wall) |
| | I1 (Inland Cliff) | | J26 (Dry Ditch) |
| | J21 (Intact Hedge) | | J27 (Boundary Removed) |
| | J211 (Native Species Rich Intact Hedge) | | J28 (Earth Bank) |
| | J22 (Defunct Hedge) | | |

- STUDY AREA
- | | |
|--|-------------|
| | 500m buffer |
| | Settlements |
- OS DEVELOPED LAND USE AREA

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WELFORD-ON-AVON



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4.6 SQKM

Settlements



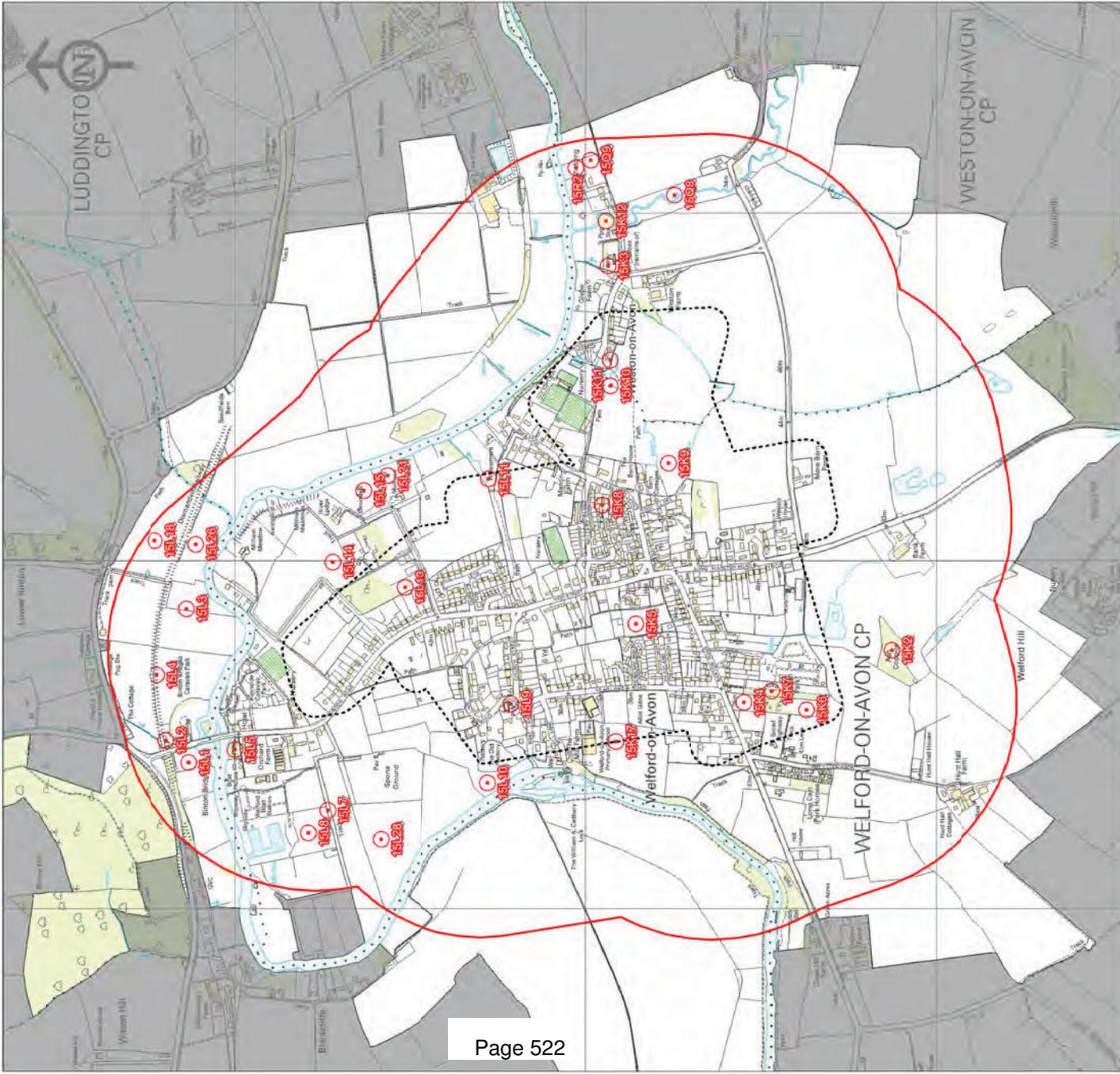
Settlements

500m Buffer



500m Buffer

WELFORD-ON-AVON



TARGET NOTES
 Point

OS DEVELOPED LAND USE AREA
 Settlements

STUDY AREA
 500m buffer

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Welford-on-Avon

sp15k10	An area of tall ruderal vegetation with hawthorn scrub along its west edge and a few mature willows at the north. The land appears to be a site where earth and possibly domestic and builders waste has been dumped in the past. There is a small stream flowing from the south to the north which goes through a pipe and has interrupted flow as it leaves the site. The vegetation consists primarily of nettles; common sorrel; hemlock; mugwort and hogweed. There were only a very few grasses present and at a low frequency; these being <i>Holcus lanatus</i> and <i>Dactylis glomerata</i> ; with only a very small amount of <i>Bromus ramosus</i> under the willows. White bryony; hedge woundwort; nipplewort; silverweed; herb robert and garlic mustard were all occasional to this site.
sp15k11	A small stand of japanese knotweed in front of a garden.
sp15k12	A small plantation in the inside of a meander with oak; lime; ash and birch being the most common of the species planted. As the trees are still young there is a lot of grass and forbs between them still. The grasses are abundant <i>Phleum pratense</i> ; <i>Agropyron caninum</i> and <i>Agrostis stolonifera</i> . The other plants recorded were occasional wild angelica; common sorrel; <i>Rumex</i> sp.; rosebay and broadleaved willowherb; common field speedwell; creeping thistle and lesser burdock. Water chickweed was abundant next to the river.
SP15K17	Species rich semi-improved grassland flood meadow by the River Avon. Sign reads ' DEFRA country side stewardship scheme'. Includes red clover, common knapweed, germander speedwell, common vetch, salad burnet, cowslip, birds foot trefoil, tufted woodrush, boubous buttercup and great burnet.
sp15k2	Ash Coppice. Predominantly ash with oak and a hawthorn and elder understorey on a steep north facing slope with a hedge at the bottom. Active rookery.
sp15k3	Churchyard. Amenity grassland comprised of <i>Poa</i> spp.; <i>Festuca rubra</i> and frequent lady's bedstraw; dove's-foot crane's-bill and occasional field speedwell; black knapweed; field scabious and hedge bedstraw. Abundant <i>Rhytidadelphus squarrosus</i> .
sp15k4	Abandoned area possibly old allotments largely taken over by prickly lettuce; dock; ragwort; hogweed and cow parsley with <i>Arrhenatherum elatius</i> ; <i>Dactylis glomerata</i> and <i>Elytrigia repens</i> and a row of old fruit trees down the middle. UPDATED 16/05/2012 OP. Now scattered scrub.
sp15k5	Semi-improved grassland with scattered elder; bramble; dog rose and hawthorn scrub and a young plantation of aspen; willow and birch along the eastern edge. The predominant grass is <i>Arrhenatherum elatius</i> ; with <i>Dactylis glomerata</i> and <i>Elytrigia repens</i> and patches of <i>Festuca rubra</i> ; <i>Poa annua</i> ; <i>P. trivialis</i> ; <i>Holcus lanatus</i> and <i>Agrostis stolonifera</i> . Ragwort and Oxford ragwort are abundant with stands of rosebay willowherb and creeping thistle and occasional wild asparagus and stinking iris. A number of garden escapes such as michaelmas daisy and Canadian goldenrod are thriving in the area. The site appears to be good for invertebrates; especially orthoptera. UPDATED 16/05/2012 OP. Area now scrubbed over with hawthorn, birch, and ash. Small pockets of grassland remain.
sp15k6	Poor sheep grazed semi-improved grassland with patchy nettle and dock.
sp15k7	Narrow strip of semi-improved grassland invaded by scrub. Hawthorn; elder and dog rose are extremely dense to the south and alongside the grassy path; becoming more scattered to the north. <i>Arrhenatherum elatius</i> ; <i>Holcus lanatus</i> and <i>Elytrigia repens</i> are the most abundant of the grasses interspersed with nettle; creeping thistle; dove's-foot crane's-bill; long-stalked crane's-bill and bristly ox-tongue. UPDATED 16/05/2012 OP. Area now covered in dense scrub.



Target Notes

sp15k8	An area of waste ground behind the gardens of two streets; this area contains scattered scrub along the sides with hawthorn and brambles being the dominant species but others such as garden rose escapes also present. The area in the middle is dominated by <i>Agrostis stolonifera</i> with occasional <i>Holcus lanatus</i> ; <i>Elytrigia repens</i> and <i>Festuca</i> sp. There was a small amount of scattered scrub in the middle including other garden escapes such as cotoneaster. The main forbs in the area were abundant canadian goldenrod; creeping thistle and common ragwort; occasional nettles; <i>Hieracium</i> spp. and rosebay willowherb. Also recorded was rare common field speedwell.
sp15k9	A very poor semi improved field with a large amount of <i>Lolium perenne</i> ; but also with significant amounts of <i>Dactylis glomerata</i> ; <i>Holcus lanatus</i> ; <i>Elytrigia repens</i> and <i>Festuca</i> sp. There was frequent meadow vetchling; hairy tare and smooth cats-ear. UPDATED 16/05/2012 OP. Now arable.
sp15l1	An area of dense hawthorn and willow scrub with frequent elder; field and dog rose and occasional alder; field maple and traveller's joy. There is a damp area within the scrub adjacent to the field containing <i>Typha latifolia</i> and <i>Carex</i> sp.. Along the road verge ground elder; ground ivy and nettle are common with occasional wild parsnip. UPDATED 16/05/2012 OP. Scrub has been cleared now and contains poor semi-improved grassland with scattered willow pollards and rows of commercially harvested willows. Scrub also cleared on island in the river.
sp15l10	Cattle grazed wet grassland alongside the River Avon with abundant coarse grasses such as <i>Dactylis glomerata</i> ; <i>Holcus lanatus</i> and <i>Arrhenatherum elatius</i> and damp loving herbs such as creeping buttercup; silverweed and docks; and patches of <i>Carex</i> sp.. Along the river bank <i>Glyceria maxima</i> and <i>Schoenoplectus lacustris</i> were frequent.
sp15l11	An area dominated by coarse grasses such as <i>Arrhenatherum elatius</i> and <i>Dactylis glomerata</i> with scattered cow parsley and hogweed. UPDATED 16/05/2012 OP. Area now amenity grassland.
sp15l13	Rough; apparently abandoned grassland dominated by coarse grasses such as <i>Arrhenatherum elatius</i> ; <i>Dactylis glomerata</i> and <i>Elytrigia repens</i> with scattered hawthorn and hawthorn scrub. Against the western edge the scrub is more varied and dense and includes traveller's joy and elder with frequent nettles; teasel and hogweed.
sp15l14	Rough apparently abandoned grassland dominated by coarse grasses such as <i>Arrhenatherum elatius</i> ; <i>Dactylis glomerata</i> and <i>Elytrigia repens</i> with scattered creeping thistle and nettle.
sp15l15	An area of semi-improved grassland on a steep east facing slope scrubbing over with hawthorn; and tall herbs dominating the bottom of the slope. A previous survey in 1986 discovered cowslips near the top of the slope as well as agrimony and <i>Briza media</i> . UPDATED 16/05/2012 OP. Scrub has taken over most of this field, but with one accessible pocket of rabbit grazed semi-improved grassland. Contains abundant agrimony, hedge bedstraw, ground ivy and anthills.
sp15l18	Semi-improved previously sheep grazed pasture with frequent salad and greater burnet and lady's bedstraw. Grasses were difficult to identify at the time the survey was undertaken and would benefit from another look earlier in the season. UPDATED 16/05/2012 OP. As described, but grasses are dominant and tall. Confirm presence of salad and great burnet. Also occasional cuckoo flower, pignut, cowslip, germander speedwell. None of these meadows in the surrounding area were grazed at time of visit, and sign reads 'Field used for archery practice'.
sp15l2	An area of overgrown tarmac and hard-core surrounded by hawthorn; elder and willow scrub; tall ruderals such as marsh thistle and nettle; and a damp patch containing <i>Carex riparia</i> . The hard-core has been colonised by <i>Poa</i> spp.; dove's-foot crane's- bill; common mouse-ear; thyme-leaved speedwell; bristly ox-tongue and selfheal.
sp15l21	Unable to gain entrance. A survey in 1986 records <i>Briza media</i> ; cowslip and agrimony with rosebay willowherb and creeping thistle common at the bottom of the slope along the river bank.
SP15L26	Semi-improved neutral grassland meadow on the flood plain. Less diverse than field north of the disused railway. Contains great burnet, creeping cinquefoil, bolbous buttercup, pignut and rare meadow sweet.



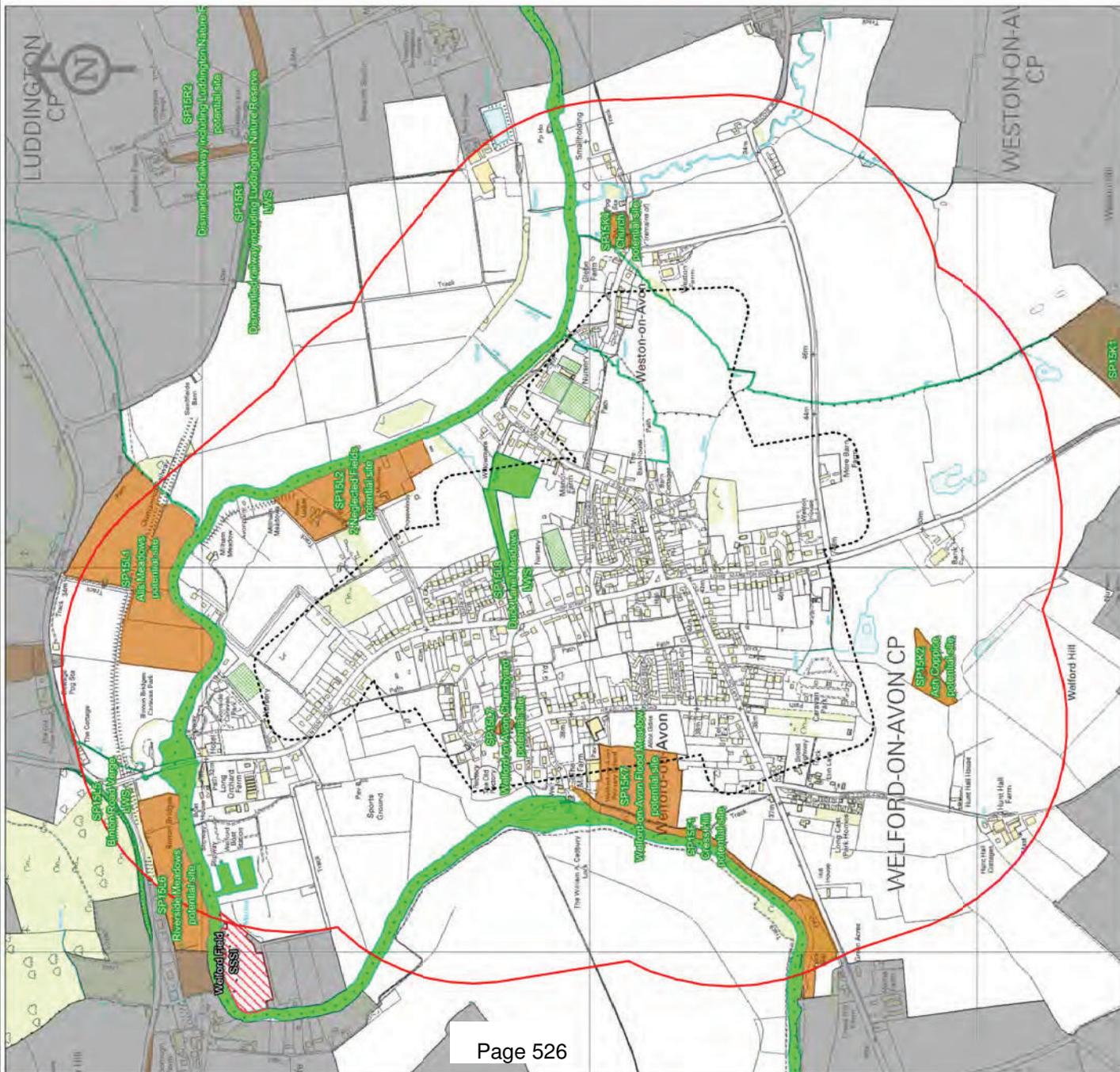
Target Notes

SP15L28	Poor semi-improved grassland with occasional prgnut, common sorrel, boubous buttercup and hedge bedstraw.
sp1513	A semi-improved pasture noticeably more heavily grazed along the western side but containing <i>Poa pratensis</i> ; <i>Dactylis glomerata</i> ; <i>Agrostis</i> sp.; <i>Hordeum seculinum</i> and occasional <i>Holcus lanatus</i> ; <i>Festuca rubra</i> and <i>Arrhenatherum elatius</i> . Forbs include frequent lady's bedstraw and occasional salad burnet.
sp1514	Disused embanked railway lined by scattered hawthorn scrub declining to the east and grassed on the top.
sp1515	Orchard over amenity grassland; containing forbs such as creeping cinquefoil and mallow.
sp1517	Unmetalled lane lined by hawthorn; elder; field maple and elm scrub and trees and occasional ash; crab apple and hazel. Ground flora along the verge includes patchy ground ivy; nettle; garlic mustard; burdock and occasional forget-me-not with <i>Arrhenatherum elatius</i> and <i>Poa trivialis</i> .
sp1518	Unmanaged area dominated by coarse grasses such as <i>Arrhenatherum elatius</i> ; <i>Dactylis glomerata</i> and <i>Elytrigia repens</i> with patches of nettle and creeping thistle and occasional <i>Festuca rubra</i> and <i>Holcus lanatus</i> . There are two large mounds made up of material dredged from the river on which rosebay willowherb; broad-leaved dock and nettle are thriving with bare patches on the steepest slopes and bristly ox-tongue and creeping thistle colonising the flat summit. UPDATED 16/05/2012 OP. Grassland destroyed by new development.
sp1519	Graveyard. Regularly mown; very short amenity grassland with forbs such as lady's bedstraw; salad burnet; burnet saxifrage; black medic and lesser trefoil.
sp15q8	Rough pasture consisting of frequent <i>Dactylis glomerata</i> ; <i>Arrhenatherum elatius</i> and <i>Poa</i> spp. including <i>P. pratensis</i> with meadowsweet and common mallow appearing along the stream side.
sp15q9	Semi-improved pasture split into pony paddocks and well grazed with abundant ribwort plantain; white and red clover and Autumn hawkbit with frequent dove's-foot crane's-bill and occasional spear thistle and prickly sow-thistle. Grasses are dominated by <i>Dactylis glomerata</i> and <i>Poa</i> spp.
sp15r2	Poor semi-improved pony grazed pasture with abundant ribwort plantain; frequent white and red clover; Autumn hawkbit; dove's- foot crane's-bill and occasional prickly sow-thistle and spear thistle. The grasses are dominated by <i>Poa</i> spp. and <i>Dactylis glomerata</i> .



WELFORD-ON-AVON

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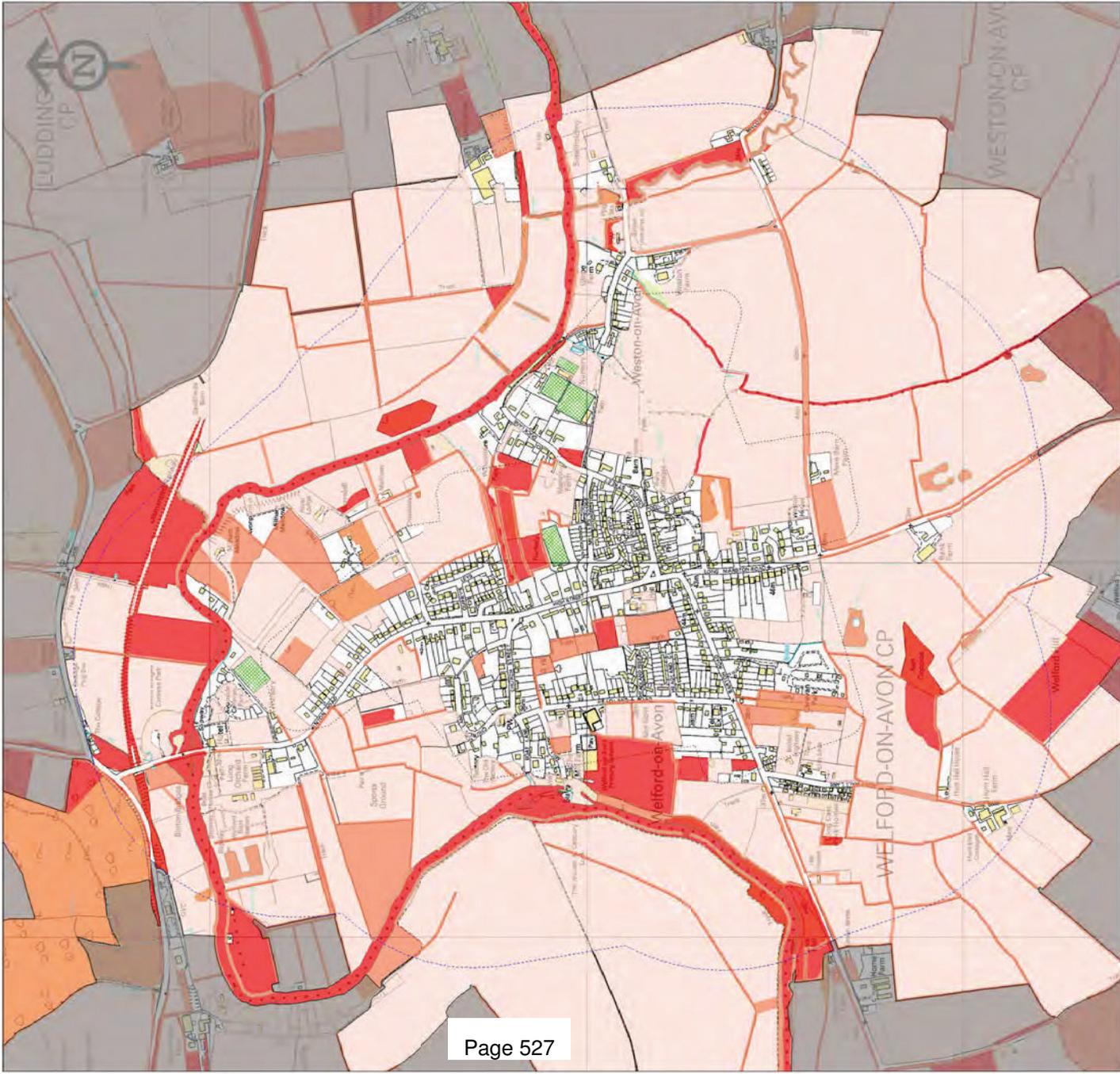


- SITES OF SPECIAL SCIENTIFIC INTEREST**
 - SSSI
- ANCIENT WOODLAND**
 - Ancient Woodland
- LOCAL WILDLIFE SITES**
 - DEFERRED SITE
 - LOCAL WILDLIFE SITE
 - POTENTIAL LOCAL WILDLIFE SITE
- LOCAL NATURE RESERVE**
 - LNR
- WARWICKSHIRE WILDLIFE TRUST RESERVES**
 - WWT Reserve
- OS DEVELOPED LAND USE AREA**
 - Settlements
- STUDY AREA**
 - 500m buffer

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WELFORD-ON-AVON

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Settlement Distinctiveness

- 3: HIGH
- 2: MODERATE
- 1: LOW

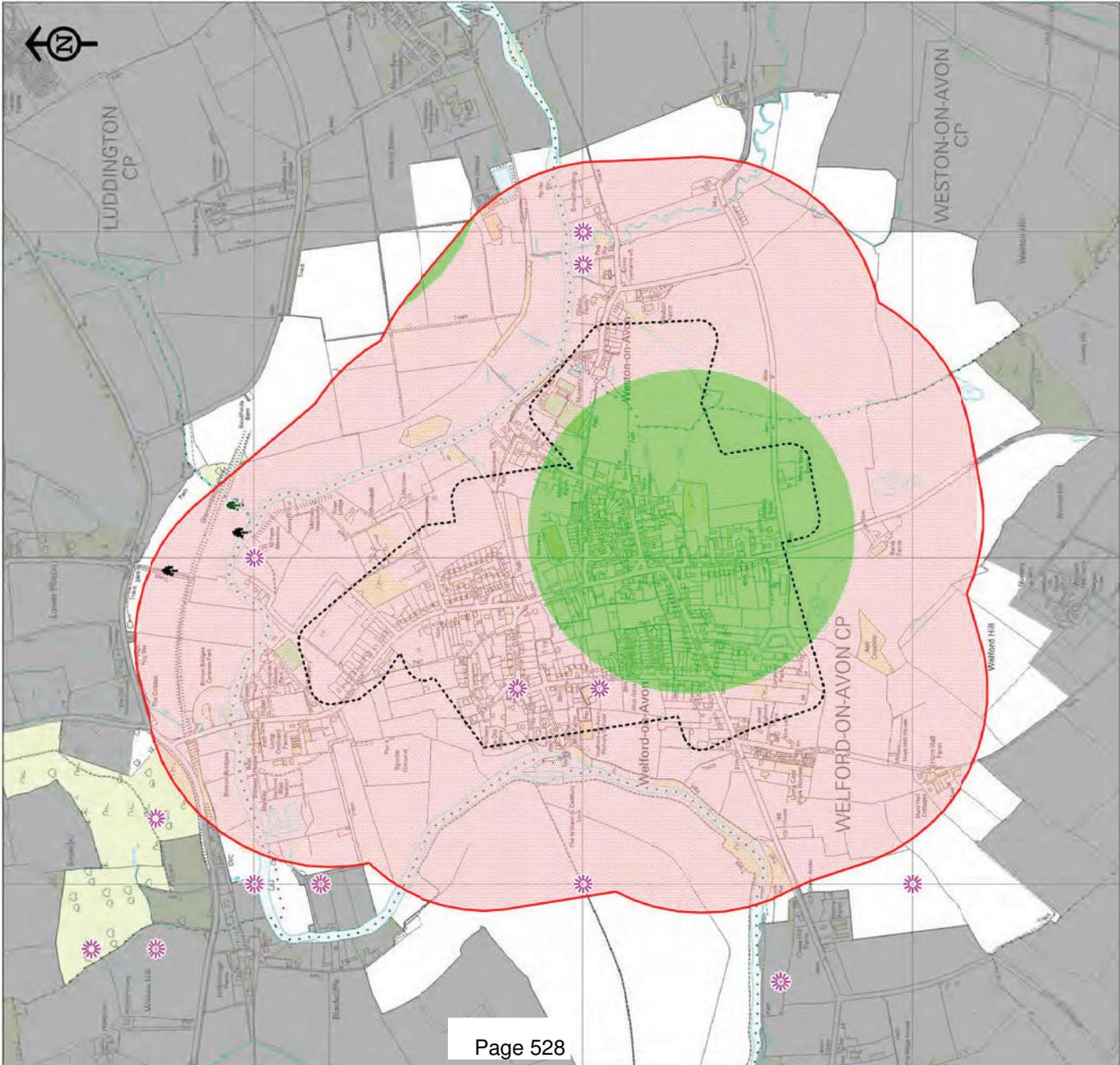
OS DEVELOPED LAND USE AREA

STUDY AREA

- 500m buffer
- Settlements

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WELFORD-ON-AVON



Species

 Buffer zone for water vole or white-clawed crayfish

 Buffer zone for protected amphibians and reptiles

 Buffer zone for bat

 Black Poplar

 Veteran tree

 County rare plant

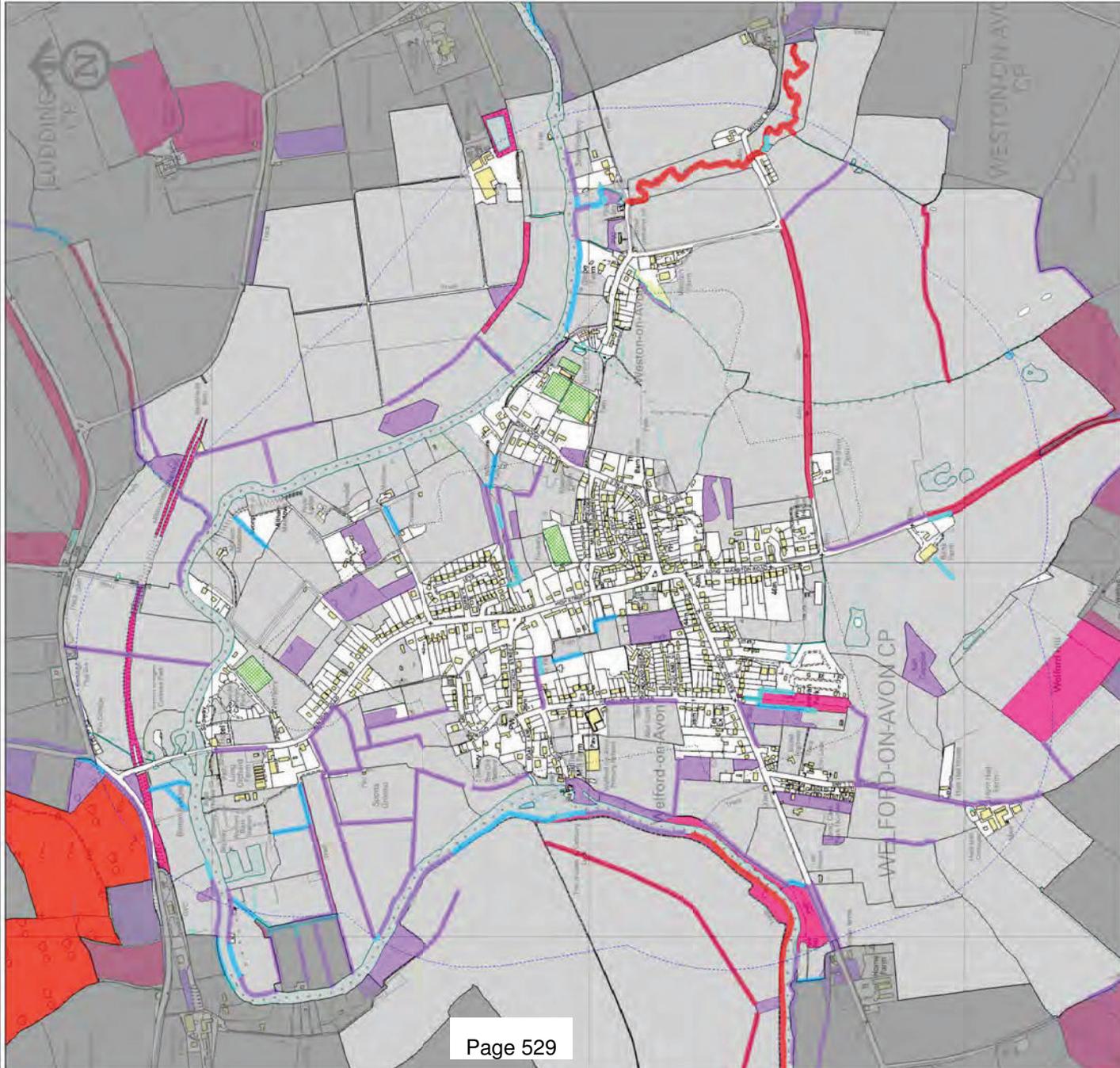
STUDY AREA  500m buffer

OS DEVELOPED LAND USE AREA  Settlements

Warwickshire Biological Records Centre



WELFORD-ON-AVON



Woodland 1km Connectivity

HIGH: 2,000,000 to 20,000,000

500,000 to 2,000,000

100,000 to 500,000

50,000 to 100,000

LOW: 1 to 50,000

NO CONNECTIVITY 0 to 0

STUDY AREA
 500m buffer

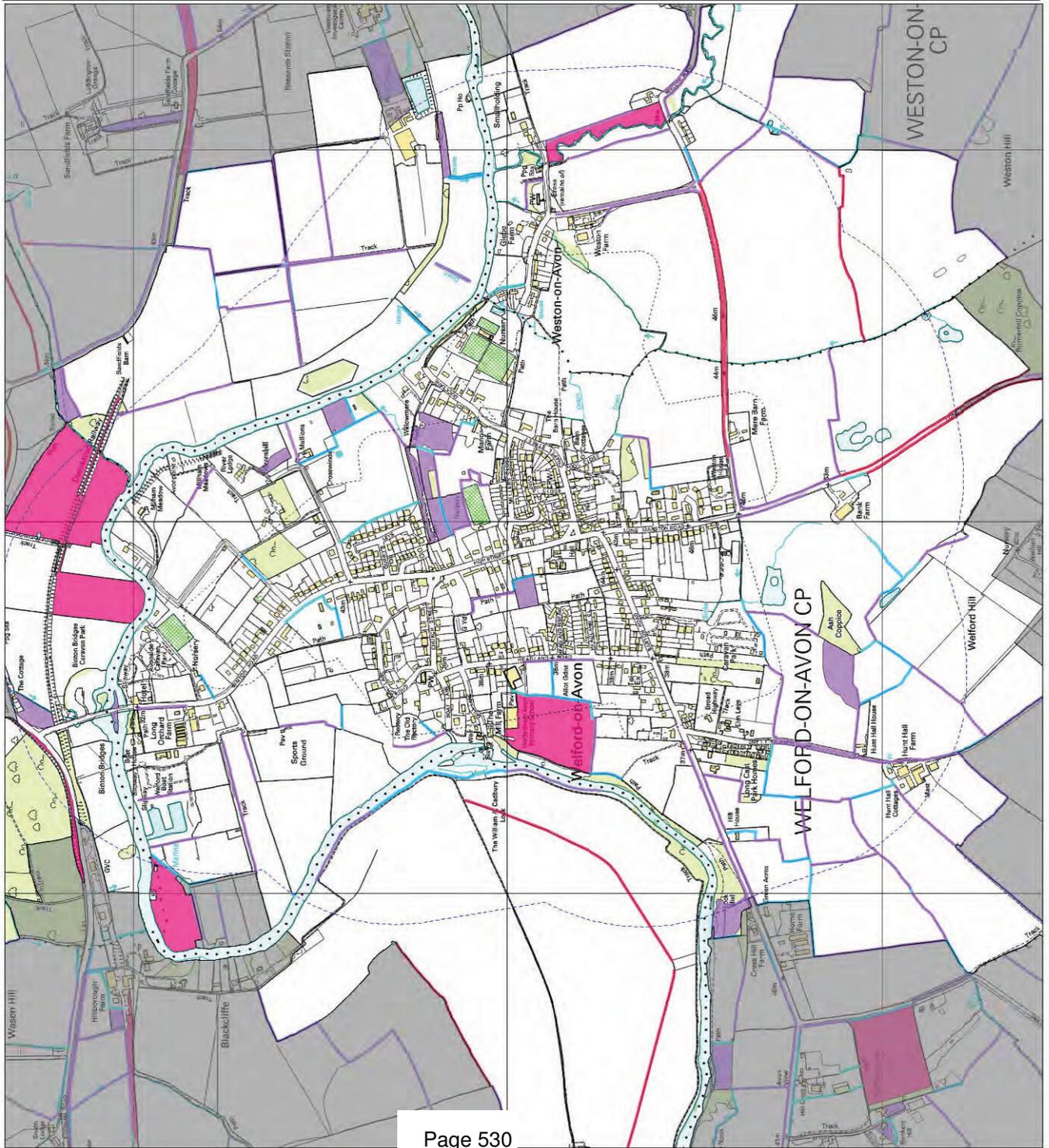
OS DEVELOPED LAND USE AREA
 Settlements

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WELFORD-ON-AVON



Grassland 1km Connectivity



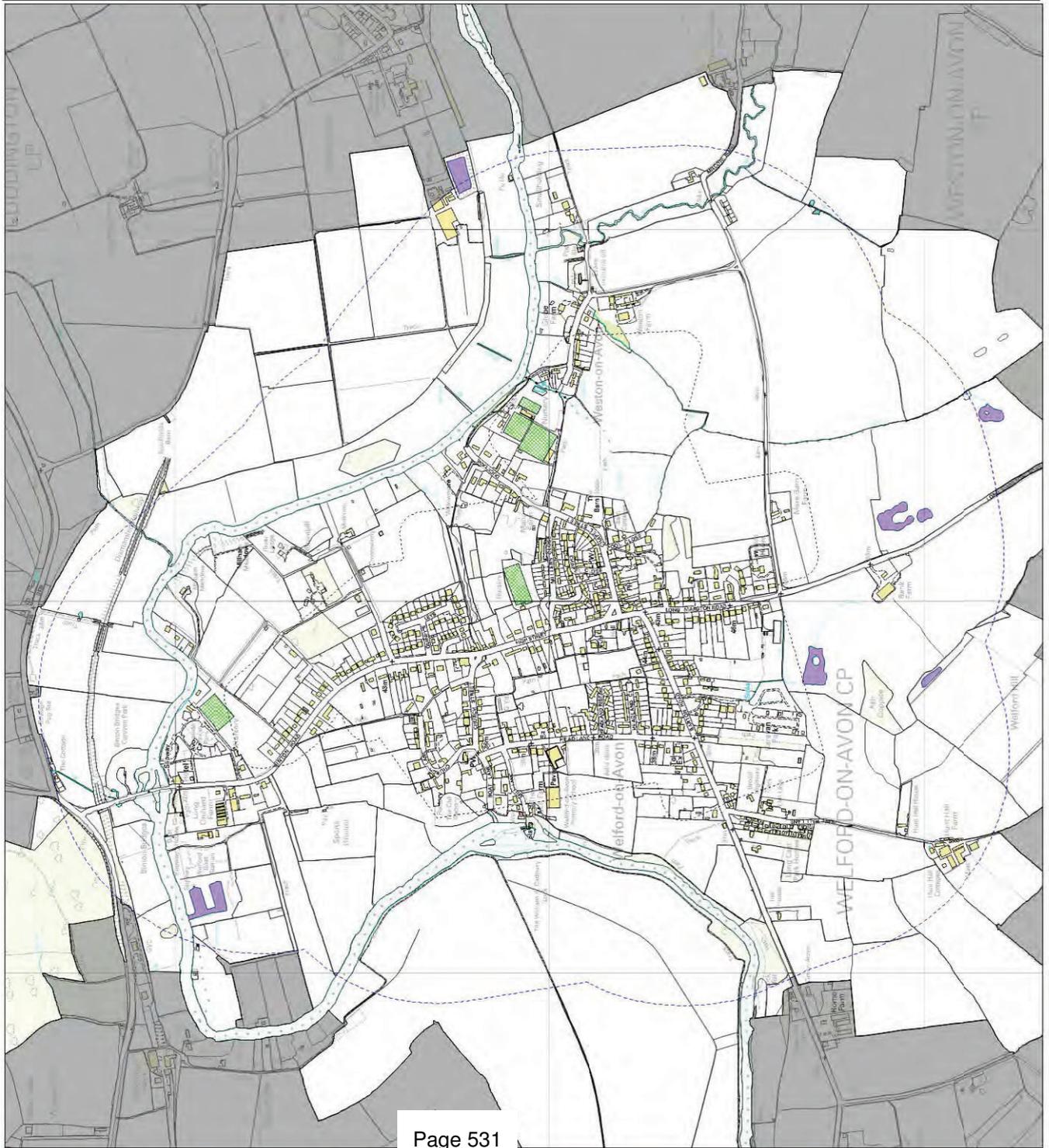
- High 2,000,000 to 20,000,000
- 500,000 to 2,000,000
- 100,000 to 500,000
- 50,000 to 100,000
- Low 1 to 50,000
- NO CONNECTIVITY



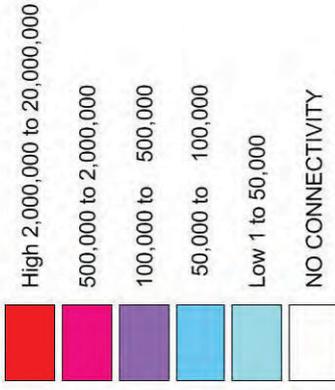
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WELFORD ON AVON



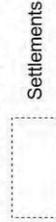
Pond 1km Connectivity



STUDY AREA



OS DEVELOPED LAND USE AREA



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Stratford-on-Avon District Council

Ecological and Geological Study of Local Service Villages

Settlement Assessment: Wilmcote

Designated sites:

Status and Name	Area in hectares	Grid ref.	Description
SSSI Copmill Hill	11.5	SP1352	
Local Wildlife Sites			
SP15P4 Marsh Road Meadow	0.28	SP1535	Semi-natural grasslands & marsh
SP15U2 Hardwick Farm Meadows	21.65	SP1655	Semi-natural grasslands & marsh
LWS potential site			
SP15N2 Wilmcote Rough	2.48	SP1535	Semi-natural grasslands & marsh
SP15P1 Fields Near Caraven Park	1.39	SP1565	Semi-natural grasslands & marsh
SP15P5 Fields to South of Marsh Road	0.78	SP1535	Semi-natural grasslands & marsh
SP15T3 Warren Chase Water	3.65	SP1675	Water courses and water bodies
SP15U1 Hardwick Farm Meadows LWS extension	1.19	SP1655	Semi-natural grasslands & marsh
SP15Li1t Stratford-upon-Avon Canal	53.81	SP1876	Water courses and water bodies

Key Target Notes

- SP15n34 and SPp17 – Copmill Hill SSSI
- SP15p18 Marsh Road Meadow Local Wildlife Site
- SP15u8 - SP15u12; Hardwick Farm Meadows Local Wildlife Site
- SP15u19 – Spu26; Mixed habitat around Mary Arden's House
- SP15t10 – Warren Chase Water
- SP15p5 – Woods at Wilmcote Rough

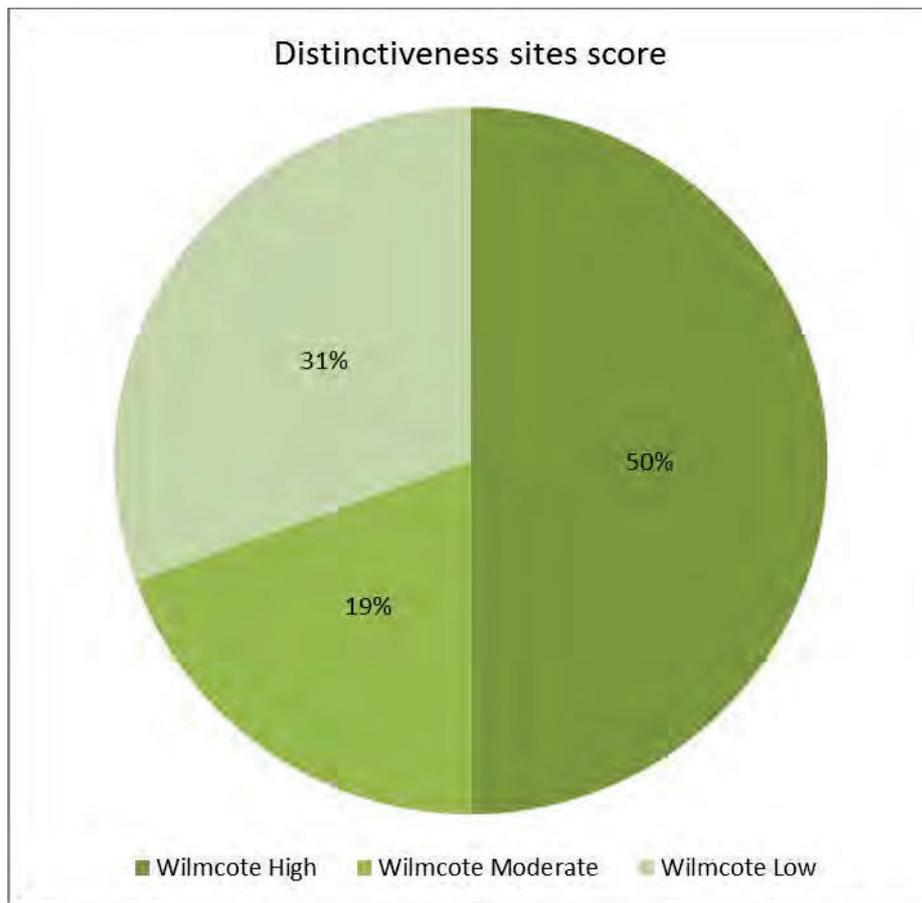
Habitat Description

Wilmcote has an overall 50 per cent of habitat score for high distinctiveness. These include the SSSI Copmill Hill site and the Marsh Road Meadow and Hardwick Farm Meadows Local Wildlife Site. In addition to these are the meadows around Mary Arden's House museum site.

Broad-leaved semi-natural woodlands are also a feature of the area the main sites are to the south of Hardwick Farm Meadows, Mary Arden's House museum and woods at Wilmcote Rough

The Water courses and water bodies also contribute to the high distinctiveness scores in particular is the Stratford-upon-Avon Canal and the Warren Chase Water

Distinctiveness Phase 1 habitats	No. of sites	Area in hectares	Score
High			
A111 Broad-leaved semi-natural woodland	28	19.90	84
A5 Orchard	2	0.51	6
B22 Semi-improved neutral grassland	16	17.04	48
B32 Semi-improved calcareous grassland	3	2.58	9
G1 Standing water	11	6.63	33
Sub Total	60	46.66	180
Moderate			
A112 Broad-leaved plantation	9	7.26	18
A21 Dense/continuous scrub	9	2.27	18
A22 Scattered scrub	2	0.63	6
B6 Semi-improved neutral grassland	13	5.65	26
J112 Allotments	1	0.09	2
J113 Set-aside	1	0.13	1
Sub Total	35	16.02	71
Low			
A122 Coniferous plantation	2	0.85	2
A132 Mixed plantation	6	2.33	6
B4 Improved grassland	54	153.79	54
C31 Tall ruderal	3	1.26	6
J11 Arable	13	115.07	13
J12 Amenity grassland	32	10.94	64
Sub Total	110	284.24	145
Totals	205	346.92	396



Geological Description

Wilmcote has much potential for its late Triassic – early Jurassic geology (Penarth Group and basal Blue Lias Formation including the Wilmcote Limestone) with considerable potential for important palaeontological discoveries. Any excavations into natural geology would be of potential interest for purposes of recording and/or museum collecting.

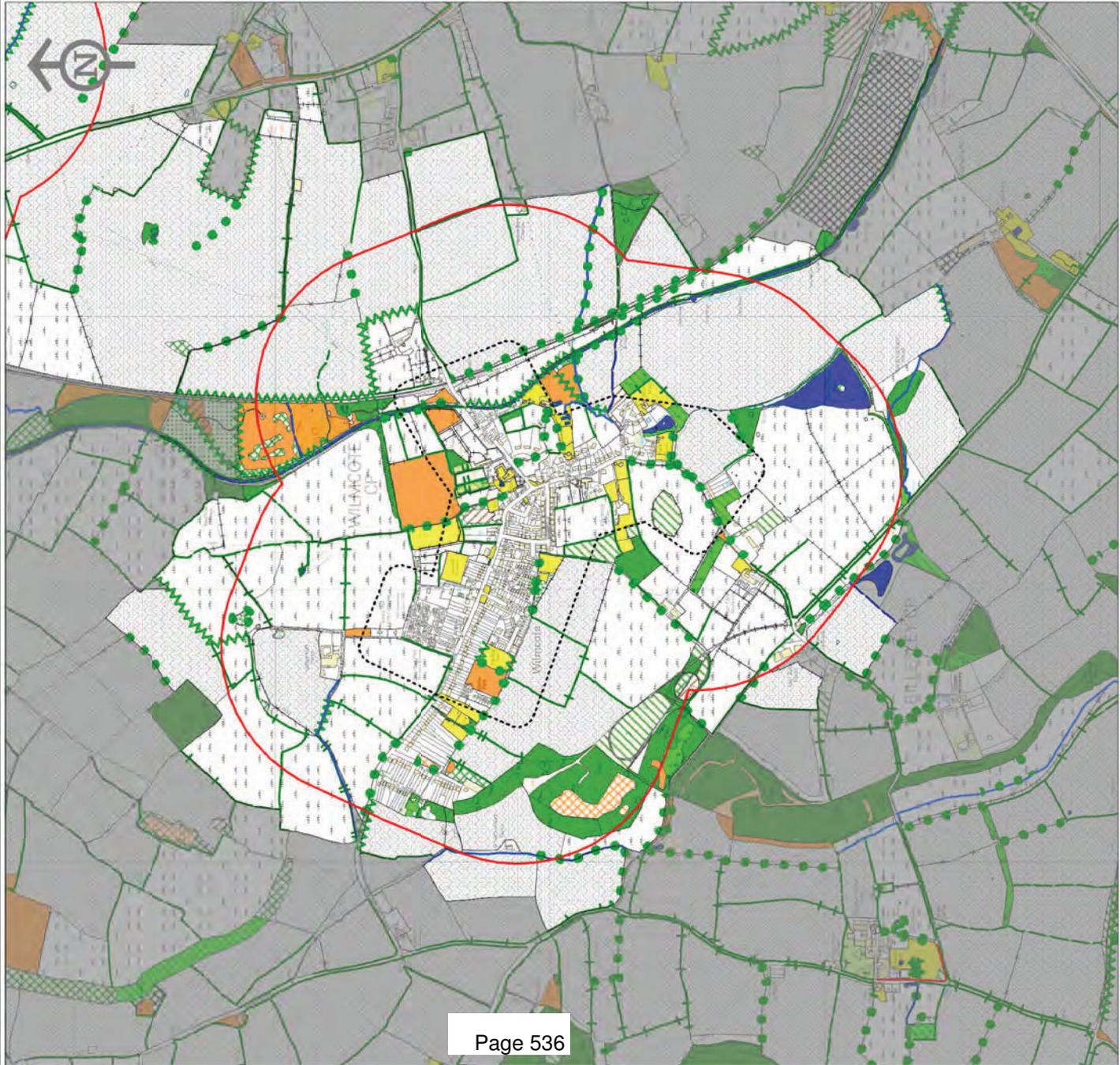
Protected Species

The bat species of brown long-eared has been recorded in the settlement area. In the wider area there are additional records of grass snake, badger, hedgehog, barn owl with additional bat records of common pipistrelle, natterer and an indeterminate bat species plus a butterfly record of grizzled skipper, dingy skipper, pearl-boarded fritillary, white-letter hairstreak and small heath. There are also rare plants including basil thyme, blue pimpernel, lesser centaury, parsley water dropwort, yellow bird’s-nest, small scabious, rye brome and field garlic, round-headed leek, greater butterfly orchid and hounds tongue in the wider area.

Recommendations for Further Survey

- Stratford-upon-Avon Canal
- Fields at Mary Arden’s House museum, new potential local wildlife site
- Extension to Hardwick Farm Meadows

WILMCCOTE



PHASE 1 HABITAT SURVEY

- Habitat Types
- A111 (Broad-leaved semi-natural woodland)
 - A112 (Broad-leaved plantation)
 - A121 (Coniferous semi-natural woodland)
 - A122 (Coniferous plantation)
 - A131 (Mixed semi-natural woodland)
 - A132 (Mixed plantation)
 - A21 (Dense/continuous scrub)
 - A22 (Scattered scrub)
 - A31 (Broad-leaved parkland/scattered trees)
 - A32 (Coniferous parkland/scattered trees)
 - A4 (Recently felled woodland)
 - A5 (Orchard)
 - B11 (Unimproved acidic grassland)
 - B12 (Semi-improved acidic grassland)
 - B22 (Unimproved neutral grassland)
 - B21 (Semi-improved neutral grassland)
 - B31 (Unimproved calcareous grassland)
 - B32 (Semi-improved calcareous grassland)
 - B4 (Improved grassland)
 - B5 (Marsh/marshy grassland)
 - B6 (Poor semi-improved grassland)
 - C11 (Continuous bracken)
 - C31 (Tall ruderal)

- C32 (Non-ruderal)
- D5 (Dry heath/acid grassland mosaic)
- E11 (Sphagnum Bog)
- E21 (Acid/neutral flush)
- E31 (Valeiy mire)
- E32 (Basin mire)
- F1 (Swamp)
- F22 (Inundation vegetation)
- G1 (Standing water)
- G2 (Running water)
- I21 (Quarry)
- I22 (Spoil)
- I23 (Mire)
- I24 (Refuse tip)
- J11 (Arable)
- J112 (Allotments)
- J113 (Set-aside)
- J12 (Amenity grassland)
- J13 (Ephemeral/short perennial)
- J14 (Introduced shrub)
- J36 (Buildings)
- J4 (Bare ground)

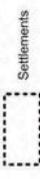
- Linear Features
- A21 (Linear Scrub)
 - A3 (Linear Trees)
 - G1 (Standing Water)
 - G2 (Running Water)
 - I1 (Inland Cliff)
 - J21 (Intact Hedge)
 - J211 (Native Species Rich Intact Hedge)
 - J22 (Defunct Hedge)

- J23 (Hedge with Trees)
- J231 (Native Species Rich Hedge with Trees)
- J24 (Fence)
- J25 (Wall)
- J26 (Dry Ditch)
- J27 (Boundary Removed)
- J28 (Earth Bank)

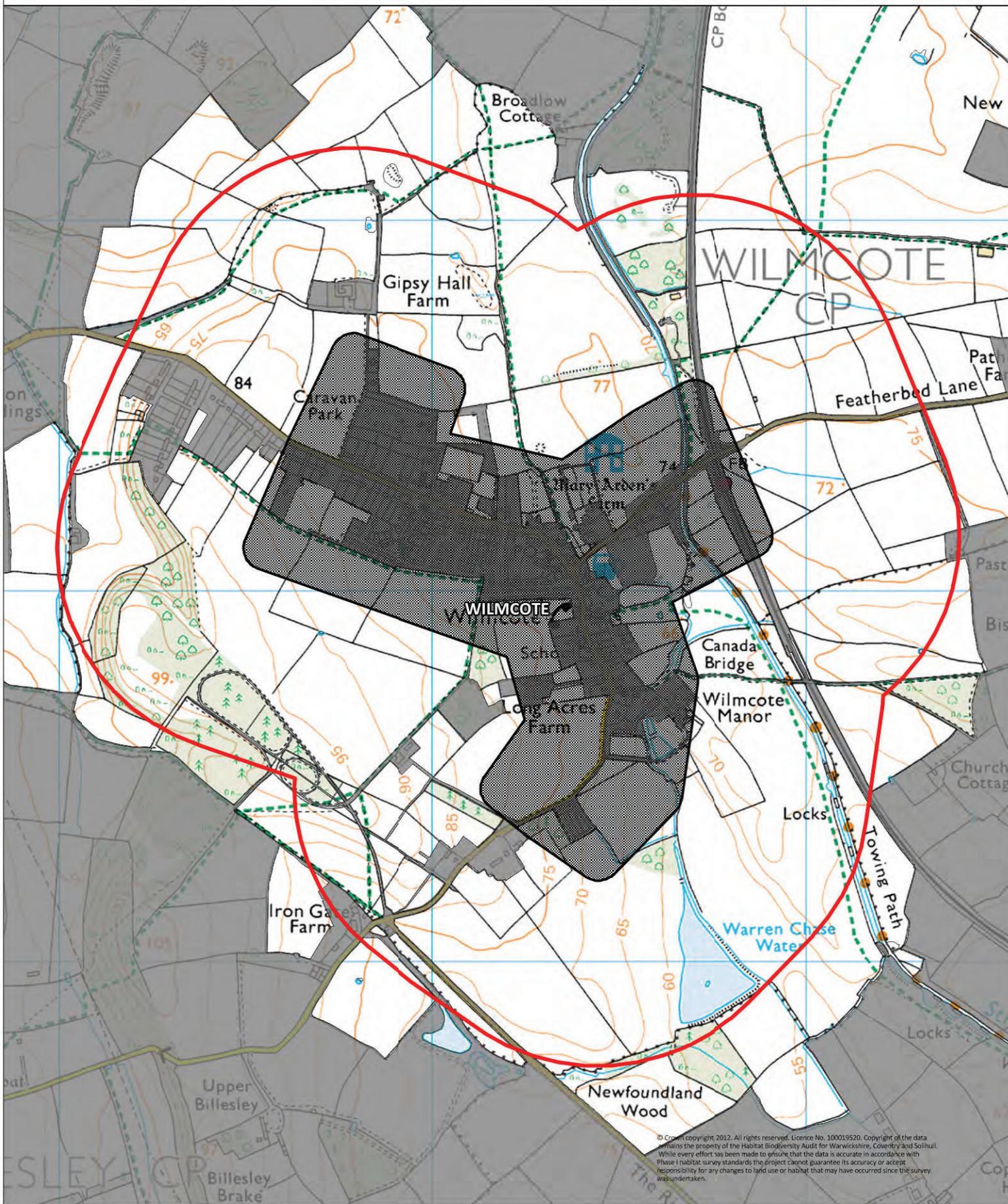
STUDY AREA



OS DEVELOPED LAND USE AREA



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4.2 SQKM

Settlements



Settlements

500m Buffer



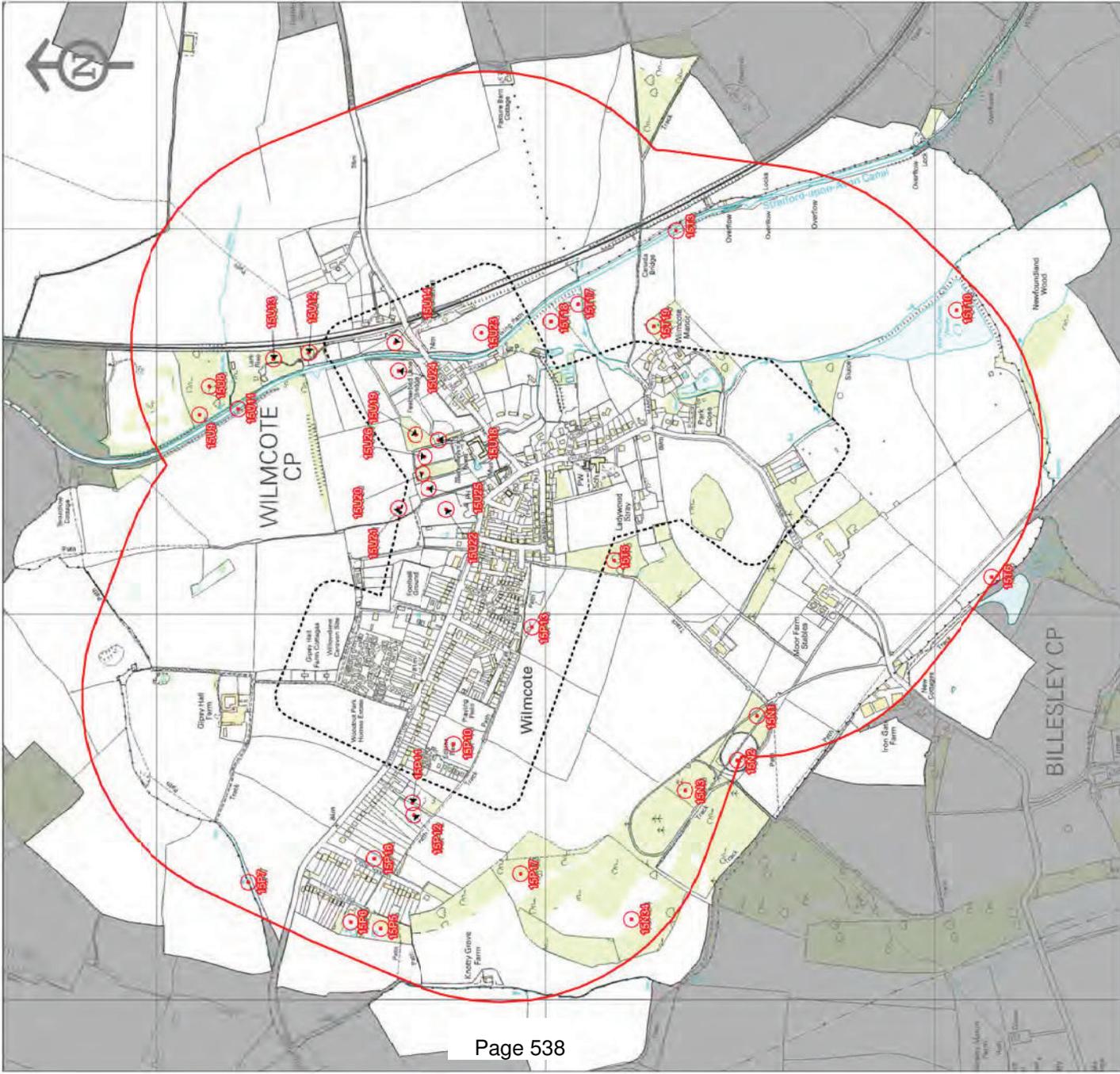
500m Buffer

WILMCOTE

TARGET NOTES
 Point

OS DEVELOPED LAND USE AREA
 Settlements

STUDY AREA
 500m buffer



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Wilmcote

- sp15n1 A young plantation of large leaved lime over semi-improved grassland. The grasses include dominant *Arrhenatherum elatius*; frequent *Holcus lanatus* and occasional *Bromus mollis*. There was abundant creeping thistle; red bartsia; common sorrel; common ragwort and prickly sow thistle with occasional prickly lettuce; agrimony; selfheal and common centaury. UPDATED 01/06/2011 OP. Trees are poplar, not lime.
- sp15n2 Semi-improved grassland with some ruderals including creeping thistle; common ragwort; prickly sow thistle and common sorrel. Grasses present include dominant *Arrhenatherum elatius*; frequent *Dactylis glomerata*; *Alopecurus pratensis*; *Elytrigia repens*; and occasional *Holcus lanatus*. Tufted vetch; black knapweed; nettles; red bartsia; agrimony and black medick are all frequent. UPDATED 01/06/2011 OP. Now dense scrub.
- sp15n3 Young large leaved lime plantation with improved grass below. UPDATED 01/06/2011 OP. Trees are poplar, not lime.
- SP15N34 Copmill Hill SSSI. Semi-improved calcareous grassland surrounded by dense oak and hawthorn woodland. Grassland species include salad burnet, dyers greenweed, common spotted orchid, agrimony, zig-zag clover, meadow vetchling and birds foot trefoil.
- sp15p10 A small flowering meadow next to a caravan park and nursery. This contains *Arrhenatherum elatius*; *Holcus lanatus* and *Dactylis glomerata*. There is abundant red clover; and frequent nettle leaved bellflower; black knapweed; yellow rattle; coltsfoot; and common ragwort. Also found were wild carrot; field bindweed; and meadow vetchling. UPDATED 29/03/2012 by OP. Semi-improved neutral grassland with white violets and cowslip. Little else to see at time of year.
- sp15p11 This path/track between two gardens is enclosed on each side with a hedge with trees; so is quite shaded. The flora at the sides of the path contains *Arrhenatherum elatius* with *Dactylis glomerata* and frequent agrimony; wild basil and field scabious.
- sp15p12 A garden; so the land is ostensibly amenity grassland but it does in places have areas where the grass has been left uncut and appears to have developed a more varied flora. However; no access was possible.
- sp15p13 The northern end of an arable field has been separated from the rest of the field by a recently installed fence. In this area the grasses are dominated by *Elytrigia repens* and *Arrhenatherum elatius* with *Poa* and *Bromus* spp. also present. In this area there is abundant wild carrot; common ragwort; red bartsia; creeping thistle and rosebay willowherb. Also occasional to the site were ploughman's-spikenard; wild onion; teasel and selfheal. There is some scrub invasion beginning to become evident.
- sp15p17 Copmill Hill. Recorder site no. 791. This is a SSSI because of the calcareous vegetation and the entomological interest which has developed on this site. No access was given for this survey but a previous survey in 1993 found carline thistle; woolly thistle; yellowwort; small scabious and dyer's-greenweed. The insects noted include thirty species of butterflies and colonies of nationally rare moths.



sp15p18	Marsh Road Meadow SINC. The vegetation appears to be CG5 Bromus erectus- Brachypodium pinnatum grassland. The sward is diverse with 13 grasses and 30 herbs recorded. Several grasses are co-dominant; these are Briza media; Bromus erectus; Brachypodium pinnatum; Trisetum flavescens; Arrhenatherum elatius and Lolium perenne. Carex Flacca is also co-dominant whilst Anthoxanthum odoratum; Holcus lanatus and Dactylis glomerata are abundant. The sward is herb rich with red clover; lesser knapweed and birds foot trefoil the most abundant herbs. Other Species include wild onion; wild carrot; hoary ragwort; ladies bedstraw; cowslip; ox-eye daisy; agrimony; common spotted orchid; greater knapweed; common centaury and field scabious. The field was donkey grazed up until eight years ago and has been cut annually since. The cuttings where removed at first but are now left. UPDATED 29/03/2012 by OP. No access. Some scrub encroachment but what grassland remains is in good condition. No grass cuttings.
sp15p5	Dense scrub of elder; blackthorn; hawthorn; and dog rose; while on the path which leads through this area are found selfheal; common centaury; common birds foot trefoil; tufted vetch; perforate st johns wort and occasional common milkwort; a common plant of basic soils. UPDATED 29/03/2012 by OP. Now a semi mature woodland.
sp15p6	A young plantation with a mixture of oak; ash; hawthorn; beech; birch; rowan; sycamore; hawthorn and spruces. This has not developed a closed canopy yet; and it still contains abundant Arrhenatherum elatius with Holcus lanatus and Deschampsia cespitosa. Rosebay willowherb; yarrow; mugwort and tufted vetch are common with bittersweet; birdsfoot trefoil and pignut all present.
sp15p7	Ditch and hedge boundary to the field; there is running water in the bottom of the ditch. The edges are often poached by cattle coming to drink. It contains brooklime; pendulous sedge; water mint; teasel and fools watercress. Along the banks of the stream there is scarlet pimpernel; herb robert; bittersweet; and abundant Holcus lanatus. Peacock butterflies and one ringlet were seen in the area at the time of the survey.
sp15t10	A water feature probably managed for fishing; this has amenity cut grass along the edges of the lake; with scattered trees; particularly willows overhanging the water at points. There is an island in the middle with a mix of trees; willows; alder and conifers all evident. There is no obvious vegetation in the middle of the lake; but in a few areas around the edge there are stands of Typha sp.
SP15T17	Neglected species rich semi-improved grassland, surrounded by trees and a stream. Mossy grassland with ox-eye daisy, creeping cinquefoil, common dog violet, ground ivy, common knapweed, teasel. Rosebay willowherb and bramble establishing.
SP15T18	Small semi-improved grassland field with ridge and furrow. Contains a pond and has abundant cow slips, creeping cinquefoil, lesser celandine.
SP15T19	Newly, but sparsely planted mixed plantation.
sp15t3	A high bank on the canal with little vegetation on the towpath; but abundant burdock at the edges with peacock butterflies very active around here at the time of the survey. The other bank is dominated by willow; great willowherb; meadowsweet; and Glyceria maxima with patches of Typha sp.
sp15t5	A recently planted broadleaf woodland; formed of a mosaic of stands of ash; sycamore; beech and horse chestnut.
sp15t6	Two fields for horse grazing with abundant Phleum pratense; Lolium perenne; Dactylis glomerata and rare examples of Brachypodium pinnatum at the edges. The forbs present were found at low density; and consisted of scattered common sorrel; creeping thistle; bush vetch; selfheal and black medick; with rare agrimony at the edges.



Target Notes

sp15u11	Stretch of the Stratford-On-Avon Canal. There is little aquatic vegetation; but some amphibious bistort. The banks support yellow flag; purple loosestrife; <i>Juncus inflexus</i> ; meadowsweet; water mint; colt's-foot; <i>Carex remota</i> ; <i>Arrhenatherum elatius</i> and <i>Dactylis glomerata</i> . The hedge on the east bank has been laid; but is in poor condition in some parts. It consists of hawthorn; wild privet; crab apple; elm; field maple and dog rose; with ash and willow standards. There is ivy covering some of the trees and wild clematis over part of the hedge. The west bank; to the south; contains patches of rose; willow and hawthorn scrub.
sp15u12	Area of dense tall common hawthorn scrub; with occasional crab apple; elder; wild privet and willow. There is no ground flora; except some nettle near the railway.
sp15u13	Mature woodland with a sparse canopy of ash; although common hawthorn also contributes to the canopy. There is some oak and several of the trees are ivy-covered. There is some elder understorey and nettle; violet sp.; young wild privet and field maple in the ground flora.
sp15u14	Uncut meadow dominated by tall grasses; such as <i>Arrhenatherum elatius</i> and <i>Holcus lanatus</i> . The main part of the field contains abundant creeping thistle with black knapweed and yarrow. There are also melilot sp.; hogweed; meadow vetchling; red clover and a yellow umbellifer (probably wild parsnip).
sp15u18	Young orchard with some hazel. The underlying grass appears to be regularly mown.
sp15u19	Continuous scrub of hawthorn; blackthorn; elder and elm; with apple; plum and damson. Copper beech is rare. Paths have been mown through the area. Open areas are dominated by nettle; with hedge bindweed; cleavers; creeping thistle; agrimony; upright hedge parsley; cowslip; nipplewort; bramble; common hemp nettle; selfheal; meadow vetchling; field rose; great willowherb and <i>Bromus ramosus</i> also present. Where the scrub is denser; sparse nettle; cuckoo pint and dock occur.
sp15u20	Mature orchard; grazed by sheep. Grasses are short; but <i>Dactylis glomerata</i> ; <i>Hordeum secalinum</i> ; <i>Festuca</i> sp.; <i>Cynosurus cristatus</i> and <i>Lolium perenne</i> are identifiable. Forbs appear to be rare; but include creeping thistle; nettle; dock; cuckoo pint and cowslip.
sp15u21	Abandoned site; to which access could not be gained. Grasses dominate; but there are also many tall ruderals; including nettle; yarrow; mugwort; ragwort; scentless mayweed; teasel; burdock and hedge bindweed. There is some elder scrub encroaching. UPDATED 27/03/2012 by OP. Site not abandoned, but heavily horse grazed semi-improved grassland. Maybe of unimproved quality as there are numerous anthills and ridge and furrow. Owner confirmed there has been no fertiliser applied in his lifetime since the second world war. Contact details obtained for survey at more suitable time of year.
sp15u22	Apparently disused site containing tall grasses; such as <i>Arrhenatherum elatius</i> and <i>Elytrigia repens</i> and tall ruderals; such as nettle; dock; creeping thistle and great willowherb. There is some scrub encroachment of bramble; elder; field maple and young ash.
sp15u23	Meadow that had been recently cut at the time of survey. Re-survey required.
SP15U24	Mary Arden's farm. Working tudor farm under higher level stewardship, and organic entry level stewardship. Mix of permanent pasture, orchards, layed native hedgerows and a meadow (at target note point). At time of visit, the meadow contained cowslips, however a survey in July 2010 listed: yellow rattle, common vetch, common mellilot, tufted vetch, lady's bedstraw, meadow cranesbill, knapweed, meadow buttercup, red clover, selfheal, oxeye daisy, meadow vetching, birds foot trefoil, and field scabious.
SP15U25	Small poor semi-improved permanent pasture field with ridge and furrow.
SP15U26	Small poor semi-improved permanent pasture field with ridge and furrow, plus species rich hedgerows.

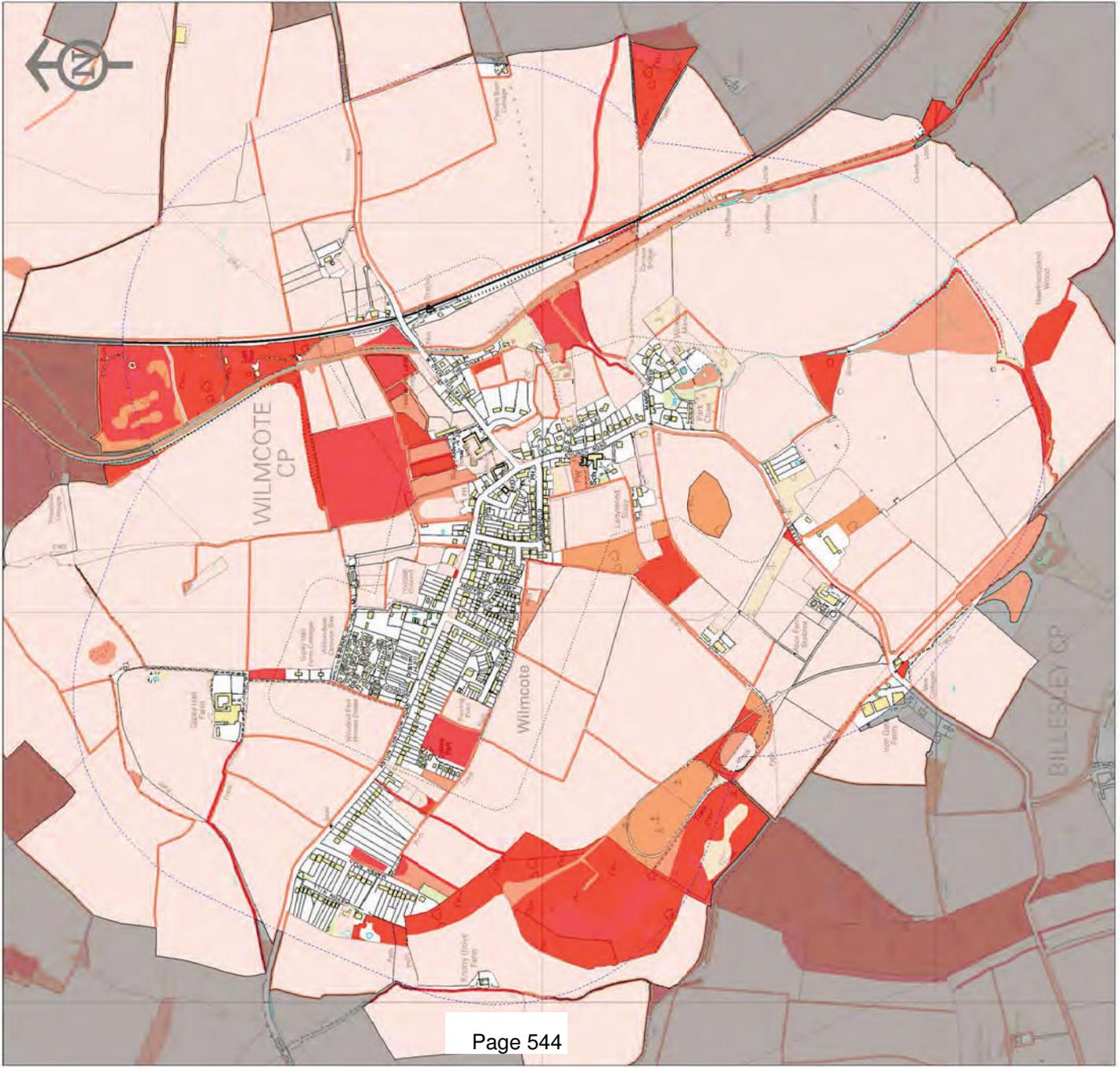


Target Notes

sp15u8	Area of locally dense scrub; consisting of common hawthorn; blackthorn and field maple. An open area towards the canal contains nettle; creeping thistle; great willowherb; wild angelica and common comfrey.
sp15u9	Dense common hawthorn; elder and crack willow scrub with a little wild privet. The ground flora contains much herb robert and also garlic mustard; nettle; nipplewort; ground ivy and Bromus sterilis.



WILMCOTE



Settlement Distinctiveness

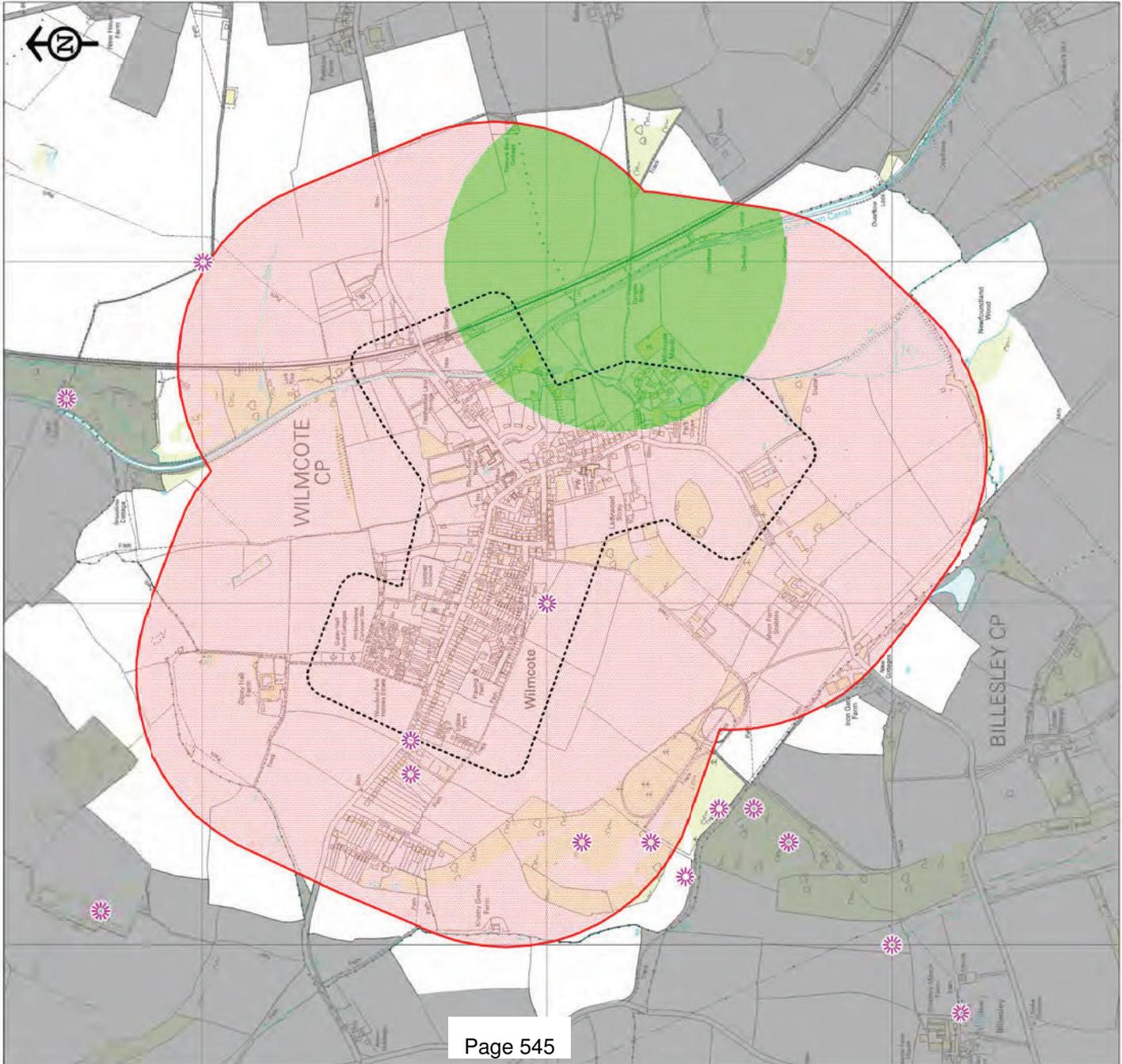
- 3: HIGH
- 2: MODERATE
- 1: LOW

STUDY AREA
 500m buffer

OS DEVELOPED LAND USE AREA
 Settlements

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WILMCOTE



Species

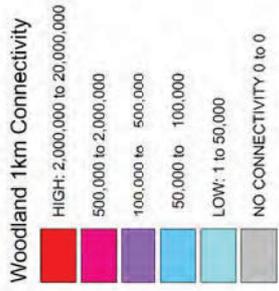
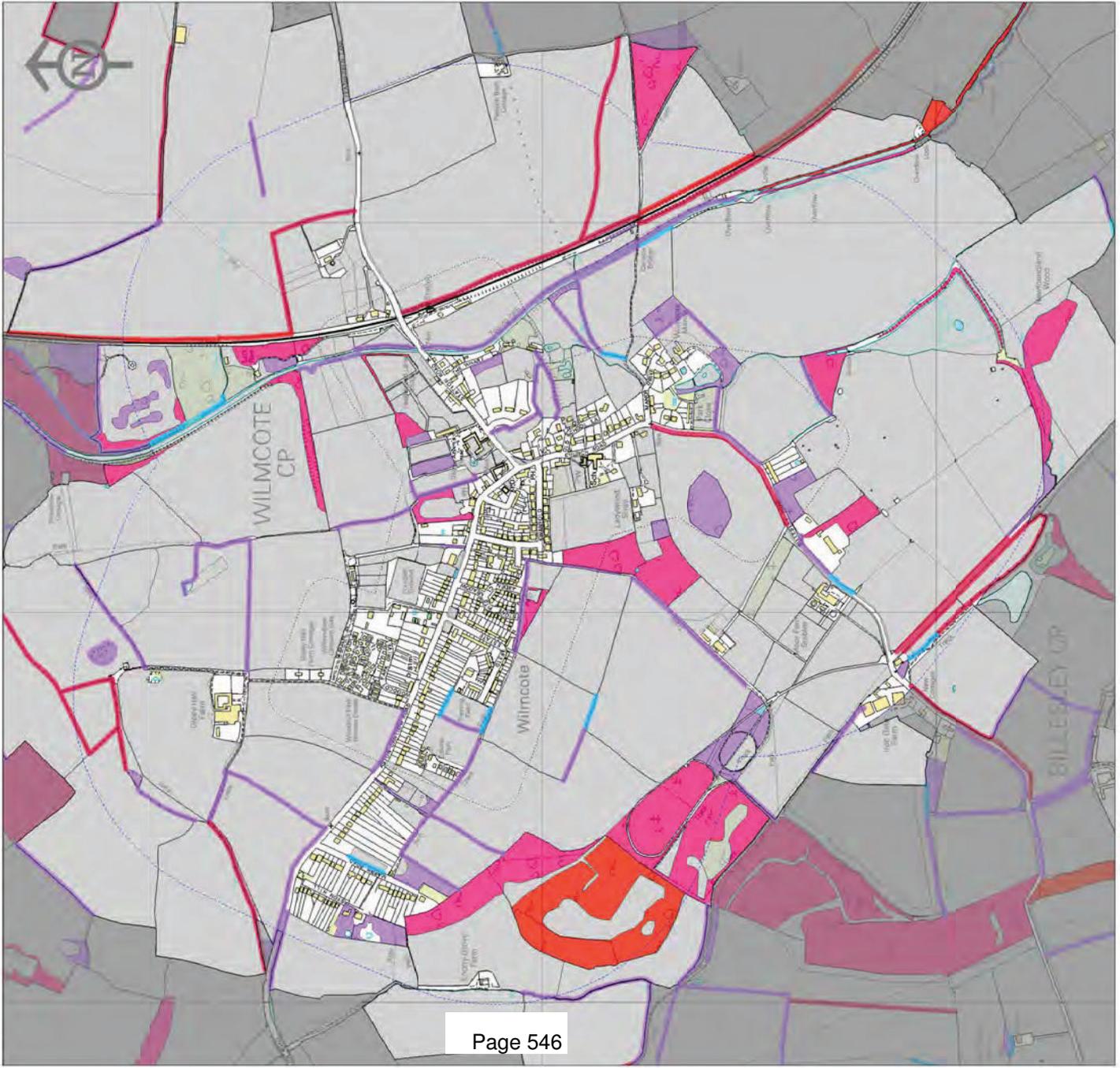
- Buffer zone for water vole or white-clawed crayfish
- Buffer zone for protected amphibians and reptiles
- Buffer zone for bat
- Black Poplar
- Veteran tree
- County rare plant

- STUDY AREA
- OS DEVELOPED LAND USE AREA
- 500m buffer
- Settlements

Warwickshire Biological Records Centre



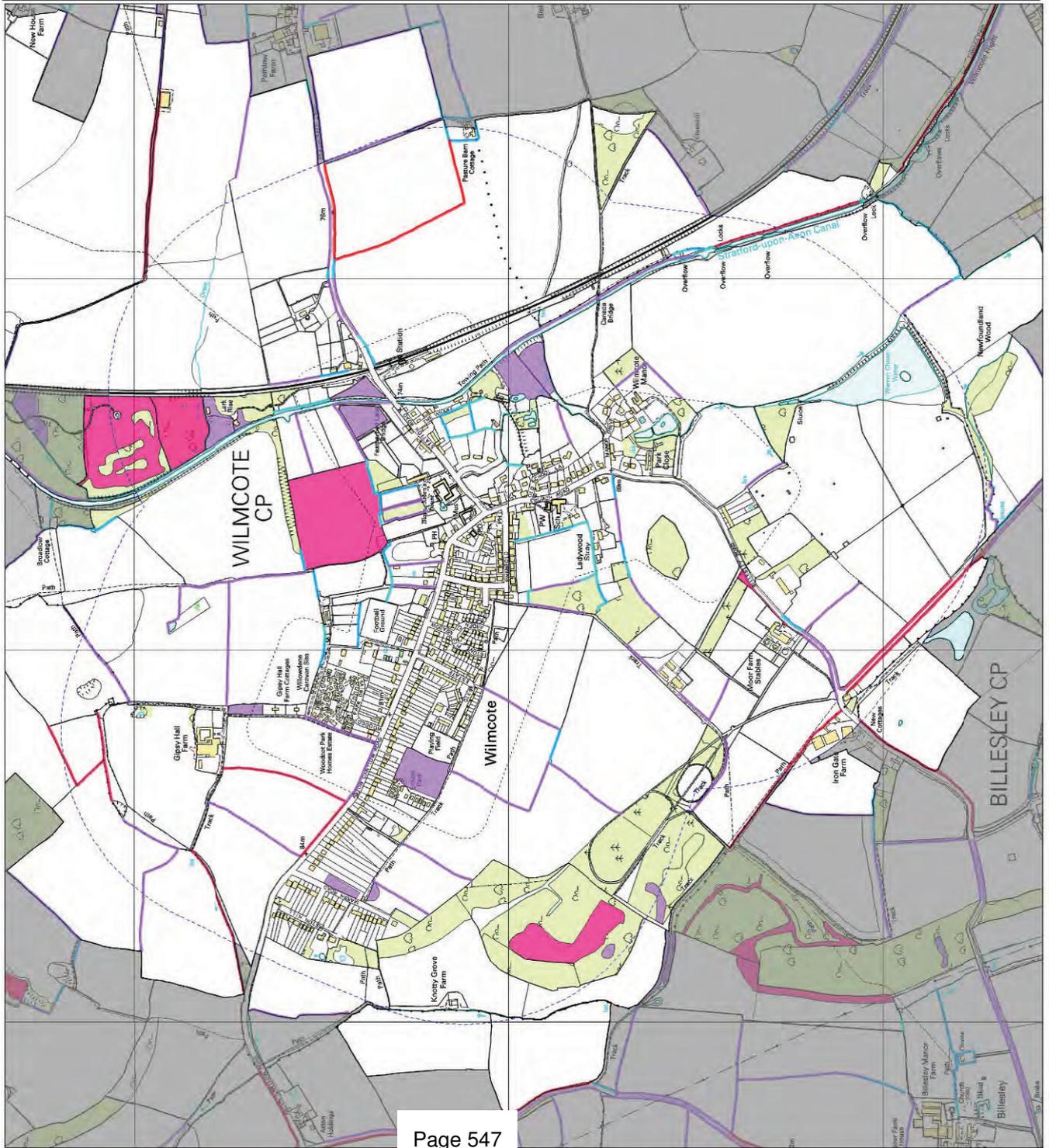
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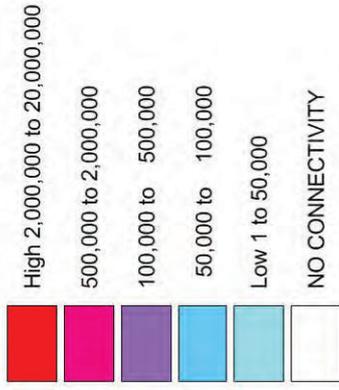
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WILMCOTE

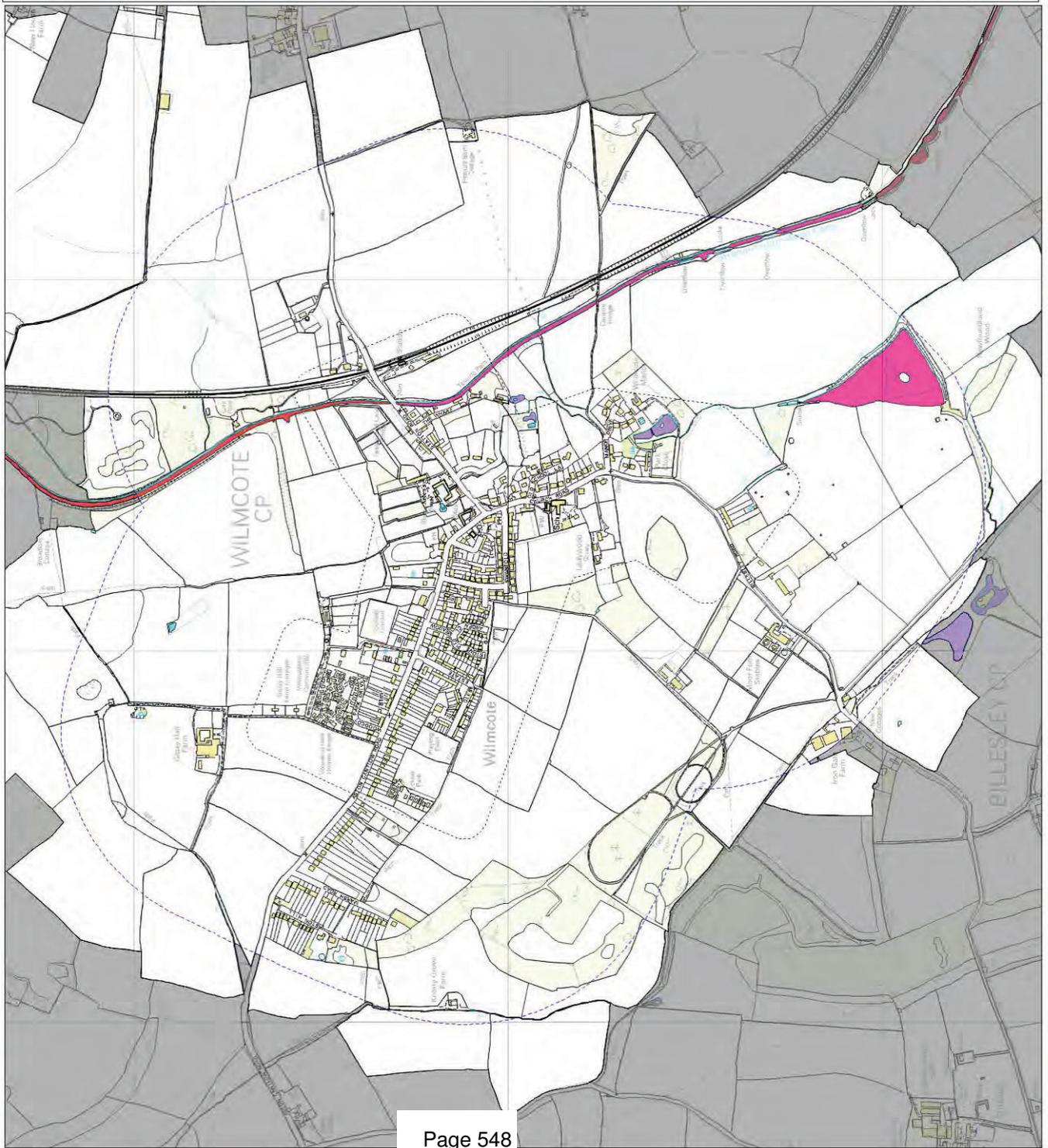


Grassland 1km Connectivity

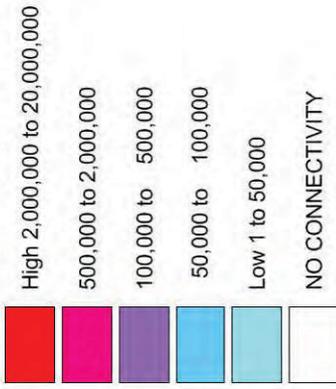




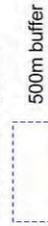
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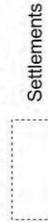
Pond 1km Connectivity



STUDY AREA



OS DEVELOPED LAND USE AREA



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Stratford-on-Avon District Council

Ecological and Geological Study of Local Service Villages

Settlement Assessment: Wootton Wawen

Designated sites:

Status and Name	Area in hectares	Grid ref.	Description
Local Wildlife Site			
SP05LiR1 River Alne	106.03	SP1264	Water courses and water bodies
LWS potential site			
SP16L2 St Peters Churchyard	1.13	SP1536	Species sites
SP15Li1t Stratford-upon-Avon Canal	53.81	SP1876	Water courses and water bodies

Key Target Notes

- SP16I9 and SP16I10 - Semi-improved pastures along the River Alne
- SP16I2 and SP16I12 – Areas of woodland alongside the River Alne
- SP16I3 - Wootton Pool
- SP16I8 – Stratford-upon-Avon Canal towpath

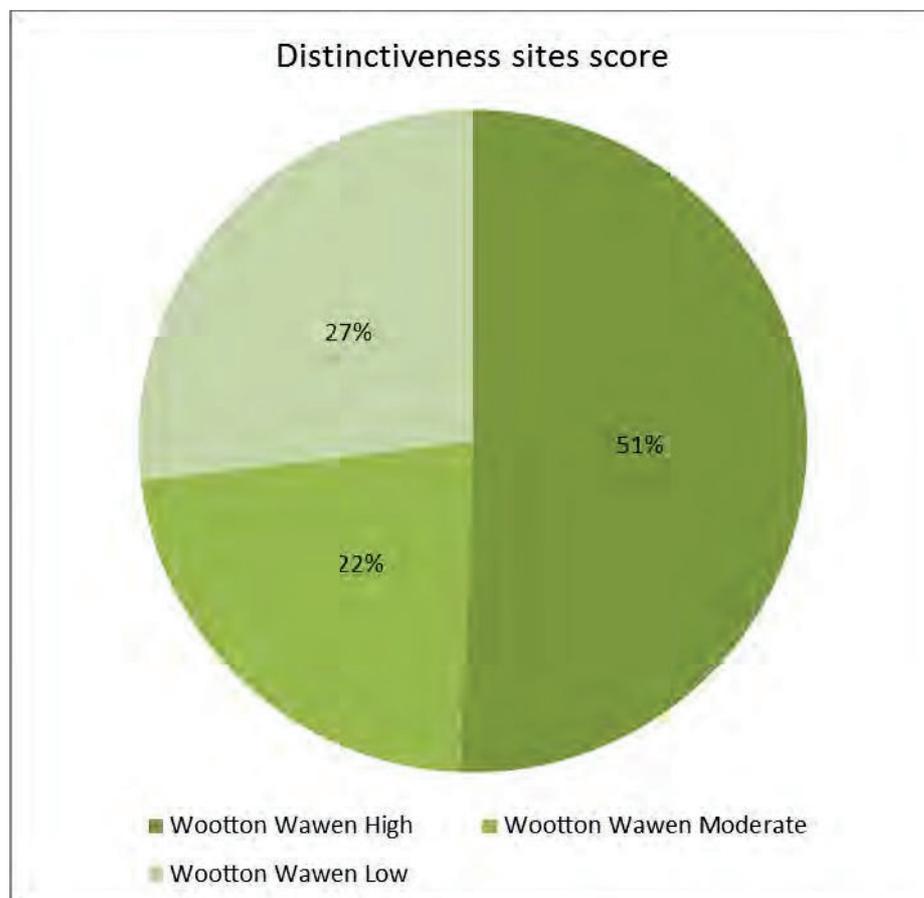
Habitat Description

Most of the high distinctiveness habitats are either water courses and water bodies and their surrounding habitats including swamp and semi-improved neutral grassland. The main watercourse through the eastern side of the settlement is the River Alne and partly within the study is the Stratford-upon-Avon Canal. To the north of the settlement is Wootton Pool a potential local wildlife site.

There are also a number of semi-natural woodland habitats along the River Alne and linear trees.

Distinctiveness Phase 1 habitats	No. of sites	Area in hectares	Score
High			
A111 Broad-leaved semi-natural woodland	16	2.82	48
A31 Broad-leaved parkland/scattered trees	1	2.30	3
B22 Semi-improved neutral grassland	7	2.64	21
F1 Swamp	2	0.11	6
G1 Standing water	6	0.96	18
G2 Running water	10	3.51	30

Sub Total	42	12.34	126
Moderate			
A112 Broad-leaved plantation	3	1.37	6
A21 Dense/continuous scrub	10	2.35	20
A22 Scattered scrub	2	2.06	6
B6 Semi-improved neutral grassland	11	34.05	22
J112 Allotments	1	1.18	2
J113 Set-aside	1	9.54	1
Sub Total	28	50.55	57
Low			
A122 Coniferous plantation	1	0.84	1
B4 Improved grassland	35	76.43	35
C31 Tall ruderal	3	0.20	6
J11 Arable	9	46.36	9
J12 Amenity grassland	19	4.10	38
Sub Total	67	127.93	89
Totals	137	190.83	272



Geological Description

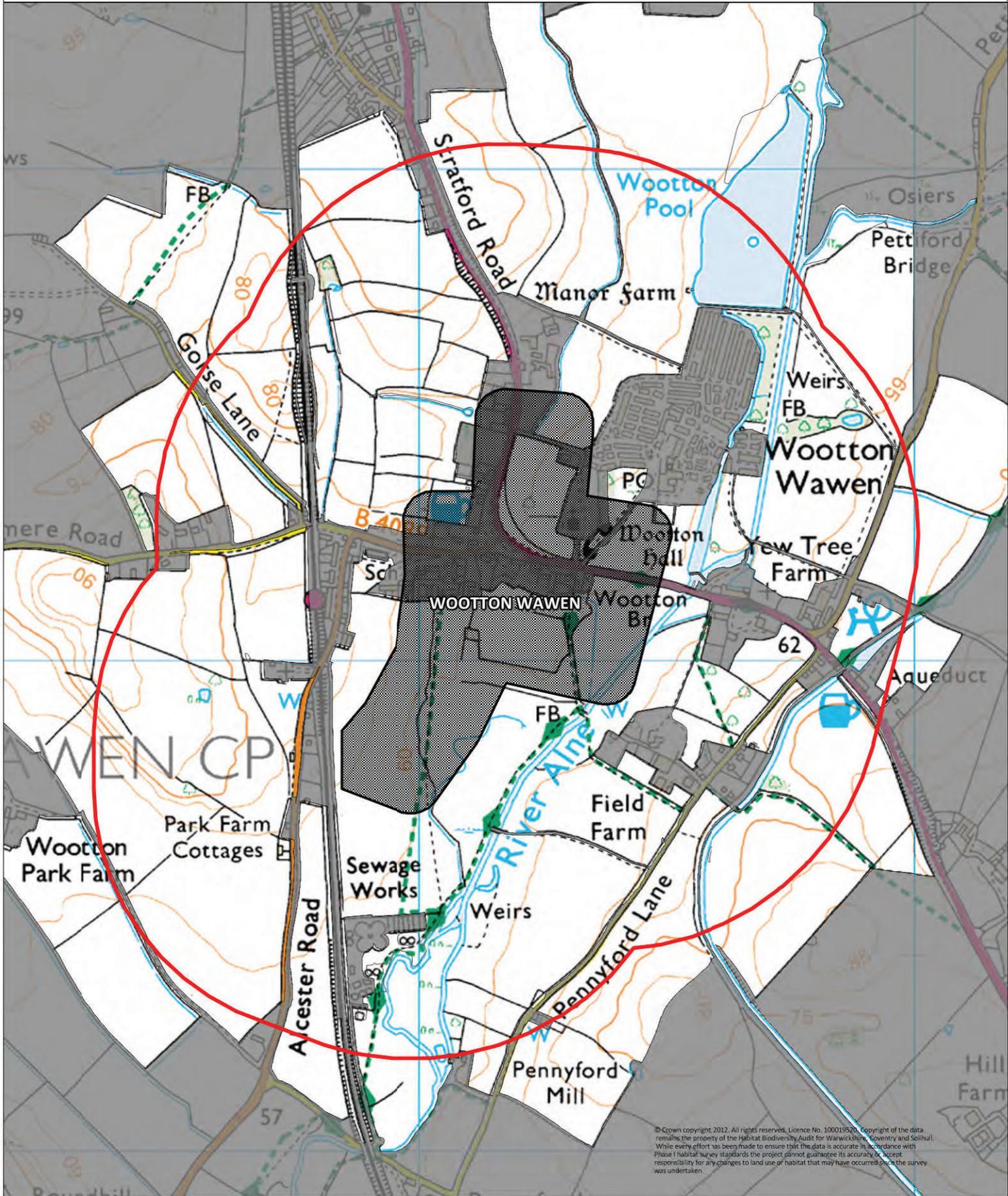
Wootton Wawen has potential for its Quaternary geology (principally river deposits), overlying late Triassic bedrock. Any excavations into natural geology would be of potential interest for purposes of recording and/or museum collecting.

Protected Species

An indeterminate bat, badger and hedgehog have been recorded in the settlement area. In the wider area there are additional records of grass snake, otter, water vole, white-clawed crayfish with additional bat records of common and soprano pipistrelles, noctule, natterers plus a butterfly record of white-letter hairstreak. There are also rare plants including black poplar, almond willow, green-winged orchid and crested hair-grass in the wider area.

Recommendations for Further Survey

- Stratford-upon-Avon Canal
- Wootton Pool



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2.3 SQKM

Settlements



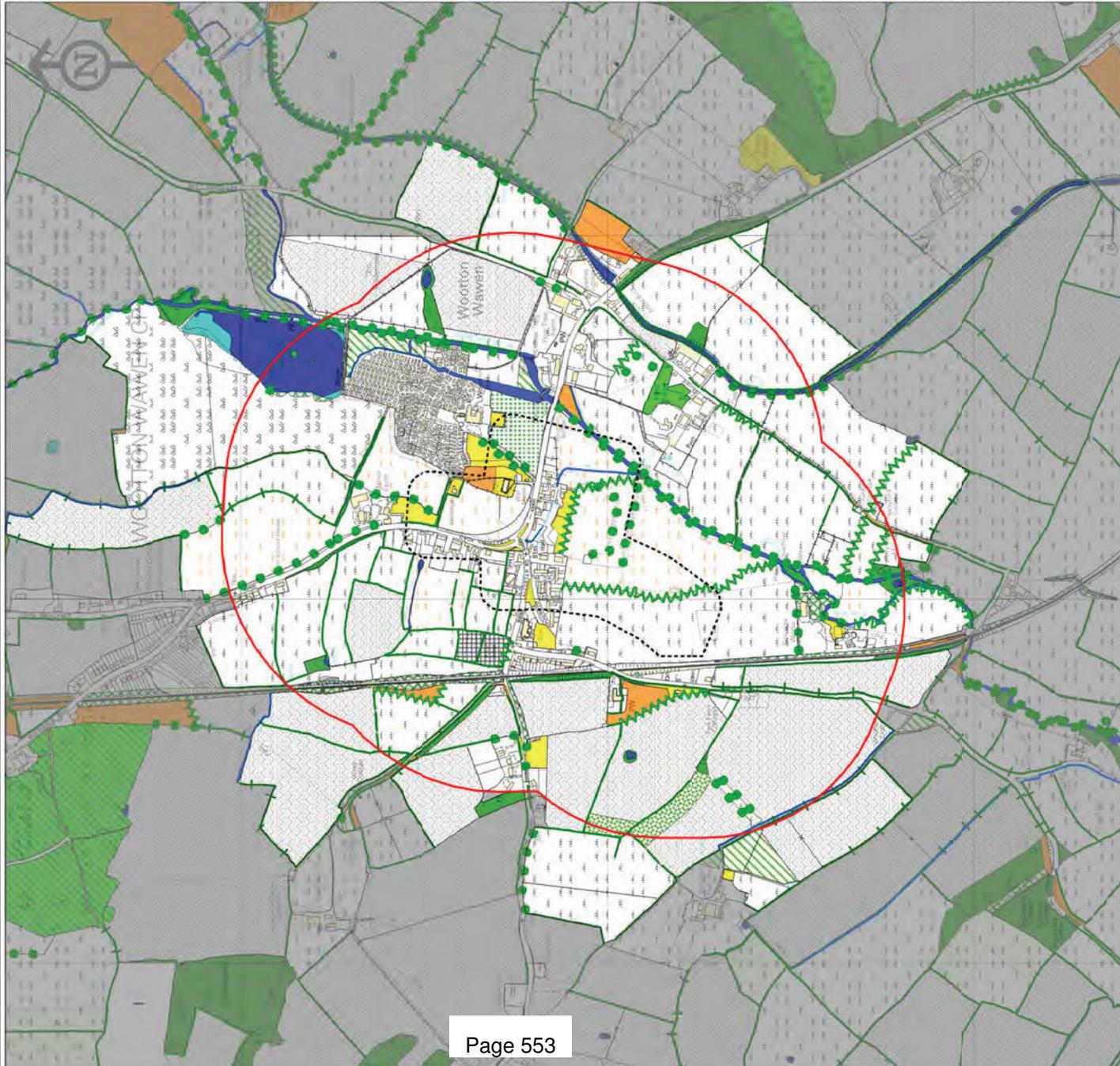
Settlements

500m Buffer



500m Buffer

WOOTTON WAWEN



PHASE 1 HABITAT SURVEY

Habitat Types

	A111 (Broad-leaved semi-natural woodland)		C32 (Non-ruderal)
	A112 (Broad-leaved plantation)		D5 (Dry heath/acid grassland mosaic)
	A121 (Coniferous semi-natural woodland)		E11 (Sphagnum Bog)
	A122 (Coniferous plantation)		E21 (Acid/neutral flush)
	A131 (Mixed semi-natural woodland)		E31 (Valley mire)
	A132 (Mixed plantation)		E32 (Basin mire)
	A21 (Dense/continuous scrub)		F1 (Swamp)
	A22 (Scattered scrub)		F22 (Inundation vegetation)
	A31 (Broad-leaved parkland/scattered trees)		G1 (Standing water)
	A32 (Coniferous parkland/scattered trees)		G2 (Running water)
	A4 (Recently felled woodland)		I21 (Quarry)
	A5 (Orchard)		I22 (Spoil)
	B11 (Unimproved acidic grassland)		I23 (Mire)
	B12 (Semi-improved acidic grassland)		I24 (Refuse tip)
	B21 (Unimproved neutral grassland)		J11 (Arable)
	B22 (Semi-improved neutral grassland)		J112 (Allotments)
	B31 (Unimproved calcareous grassland)		J113 (Set-aside)
	B32 (Semi-improved calcareous grassland)		J12 (Amenity grassland)
	B4 (Improved grassland)		J13 (Ephemeral/short perennial)
	B5 (Marsh/marshy grassland)		J14 (Introduced shrub)
	B6 (Poor semi-improved grassland)		J36 (Buildings)
	C11 (Continuous bracken)		J4 (Bare ground)
	C31 (Tall ruderal)		

Linear Features

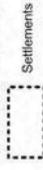
	A21 (Linear Scrub)		J23 (Hedge with Trees)
	A3 (Linear Trees)		J231 (Native Species Rich Hedge with Trees)
	G1 (Standing Water)		J24 (Fence)
	G2 (Running Water)		J25 (Wall)
	I1 (Inland Cliff)		J26 (Dry Ditch)
	J21 (Intact Hedge)		J27 (Boundary Removed)
	J211 (Native Species Rich Intact Hedge)		J28 (Earth Bank)
	J22 (Defunct Hedge)		

STUDY AREA



500m buffer

OS DEVELOPED LAND USE AREA



Settlements

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Wootton Wawen

sp1611	Pond - surrounded by a mixture of rough semi-improved grassland; tall ruderal and scattered scrub. There is abundant <i>Arrhenatherum elatius</i> ; <i>Holcus lanatus</i> and <i>Dactylis glomerata</i> with areas of rosebay willowherb; hogweed; cow parsley and nettles. The scrub areas are comprised mostly of hawthorn and dog and field rose with the occasional young elder and sycamore. There are willow and field maple found at the pond edge. Emergent vegetation includes <i>Typha latifolia</i> ; <i>Phalaris arundinacea</i> ; <i>Juncus effusus</i> and <i>Carex riparia</i> and the abundant aquatic vegetation is dominated by broad-leaved pondweed and blanket weed with occasional water-milfoil. Several grass snakes seen as well as banded demoiselle; common blue and blue-tailed damselfly.
sp16110	Semi-improved pasture on low lying ground near River Alne. There are extensive patches of <i>Juncus inflexus</i> towards the east and centre; with the remainder being made up of <i>Cynosurus cristatus</i> ; <i>Lolium perenne</i> ; <i>Poa trivialis</i> and white clover. The river is lined with hawthorn and occasional ash; alder and oak. UPDATED 23/04/2012 OP. Field not marshy - mainly heavily poached with thistles, nettle, and dock. Only occasional rushes and cuckoo flower.
sp16111	Improved hay meadow with abundant <i>Lolium perenne</i> and <i>Cynosurus cristatus</i> and occasional <i>Agrostis tenuis</i> . There are also occasional patches of creeping thistle.
sp16112	A small area of semi-natural woodland along the River Alne; edged with hawthorn and ash and comprised of mostly goat willow and alder. <i>Arrhenatherum elatius</i> is abundant beneath the fairly open canopy along with frequent burdock; dock and nettles. A small island in the river is colonised by dense elder scrub and nettles. UPDATED 23/04/2012 OP. As described. Ground flora includes ramsons.
sp16113	No access; but appears to be semi-improved pasture grazed by sheep. Abundant <i>Alopecurus pratensis</i> and field mushroom.
sp16117	A semi-improved meadow with abundant <i>Arrhenatherum elatius</i> ; <i>Agrostis tenuis</i> and <i>Holcus lanatus</i> ; and occasional patches of <i>Festuca rubra</i> and <i>Poa</i> spp. Patches of smooth tare and lady's bedstraw can be found and there is a good population of marbled white butterflies. UPDATED 23/04/2012 OP. Meadow in good condition with cow slips, common knapweed. Contains ridge and furrow.
sp16119	A small area of semi-improved grassland with scattered Scot's pine. The area had been recently cut at the time of survey; but appears to have a mix of grasses; including patches of <i>Festuca rubra</i> ; <i>Holcus lanatus</i> and <i>Dactylis glomerata</i> . Around the base of the trees small patches of uncut vegetation remain; with cow parsley; greater celandine and <i>Bromus ramosus</i> . A grey wagtail was seen under the bridge during the survey. UPDATED 23/04/2012 OP. As described with cowslips, creeping cinquefoil and germander speedwell.
sp1612	A small copse primarily oak of various ages and development; with a fairly open canopy allowing rough grassland beneath mostly <i>Arrhenatherum elatius</i> with patches of cow parsley; hogweed and cleavers and occasional hawthorn scrub.
sp16120	Poor semi-improved with abundant <i>Cynosurus cristatus</i> and frequent <i>Lolium perenne</i> ; <i>Anthoxanthum odoratum</i> and <i>Phleum pratense</i> . There extensive patches of creeping thistle and nettle. UPDATED 23/04/2012 OP. Grass heavily horse grazed. Ridge and furrow.
sp16121	Unable to gain access. A survey carried out in 1982 suggests that the field is poor semi-improved pasture with <i>Holcus lanatus</i> ; <i>Poa</i> spp.; and <i>Alopecurus pratensis</i> ; with a mostly hawthorn hedge. The ditch is recorded as being wooded in places; and dominated by <i>Glyceria fluitans</i> and fool's watercress. <i>Eleocharis palustris</i> and <i>Carex</i> spp. were recorded at the pond.
SP16L22	St. Peter's churchyard. At time of visit grass had been cut, however sign says that the churchyard is managed as a wildflower meadow. Sign lists common knapweed, meadow saxifrage, lady's bedstraw and bugle. However only cowslips and tufted wood rush were visible.



SP16L23	No Access.
SP16L24	Semi-improved roadside verge with white dead nettle, ground ivy, cowslips, common vetch, creeping cinquefoil, germander speedwell, cleavers, cow parsley, silverweed, ramsons and lesser celandine.
sp1613	Wootton Pool - an old but originally artificial lake now stocked with large carp and used and managed by a local angling club. It is kept free of aquatic vegetation for the most part with small patches of emergent vegetation at certain points around the edge. The eastern bank is lined with scattered oaks and a mown ride. At the south-east corner a small area of swamp with willow and <i>Typha latifolia</i> has been allowed to develop. Along the south bank there is a line of ash and sycamore with mown grass between and a small area of <i>Schoenoplectus lacustris</i> in the shallows. <i>Typha latifolia</i> and occasional yellow flag make up another area of swamp in the south-western corner providing cover for invertebrates and breeding mallard and morehen. The lake runs adjacent to an arable field along its western side and occasional dense scrub alternating with areas of mown and unmown grassed areas. To the north-west is a large area of <i>Typha</i> swamp with encroaching scrub.
sp1614	An area of plantation consisting of poplar; oak; ash and occasional lime with an understorey of young oak and sycamore dense in places. No direct access.
sp1617	Hay meadow; probably improved with a seed mix including <i>Lolium perenne</i> ; <i>Poa</i> spp.; <i>Bromus mollis</i> and <i>Dactylis glomerata</i> near the edges. There are few forbs. This field appeared to have a good breeding population of skylarks. UPDATED 23/04/2012 OP. Not a hay meadow. Heavily horse grazed.
sp1618	Canal towpath. Recently mown at the time of survey. Aquatic vegetation is sparse with occasional patches of <i>Glyceria maxima</i> . The eastern bank is overhung by hawthorn and ash; with bramble and dog rose. To the south there is a cutting with ash and willow.
sp1619	Semi-improved pasture alongside river Alne; with a drainage ditch running parallel to the large earthwork bank. There is no obviously dominant species; but <i>Cynosurus cristatus</i> ; <i>Alopecurus pratensis</i> and <i>Poa</i> spp. are abundant with patches of <i>Agrostis tenuis</i> . Forbs in the lower lying areas are scarce; consisting of white and red clover; creeping and marsh thistle and mouse-ear. Along the slopes and top of the bank patches of lady's bedstraw can be found with frequent cat's-ear; sorrel; smooth hawk's-beard and bird's-foot-trefoil. The field to the west of the bank is similar to the east; with some interesting physical features which may be the remains of ridge and furrow or natural fluvial deposits. The irrigation ditch contains abundant <i>Holcus lanatus</i> ; watercress; brooklime and creeping buttercup; with frequent meadowsweet and dense patches of nettles and the occasional patch of hawthorn. UPDATED 23/04/2012 OP. as described, however very heavily horse grazed and not in good condition. Includes tufted wood rush and creeping cinquefoil.
SP16M22	NO access. Appears to be of poor semi-improved quality with ridge and furrow.



WOOTTON WAWEN



SITES OF SPECIAL SCIENTIFIC INTEREST



SSSI

ANCIENT WOODLAND

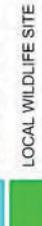


Ancient Woodland

LOCAL WILDLIFE SITES



DEFERRED SITE



LOCAL WILDLIFE SITE



POTENTIAL LOCAL WILDLIFE SITE

LOCAL NATURE RESERVE



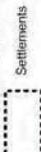
LNR

WARWICKSHIRE WILDLIFE TRUST RESERVES



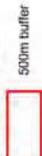
WWT Reserve

OS DEVELOPED LAND USE AREA



Settlements

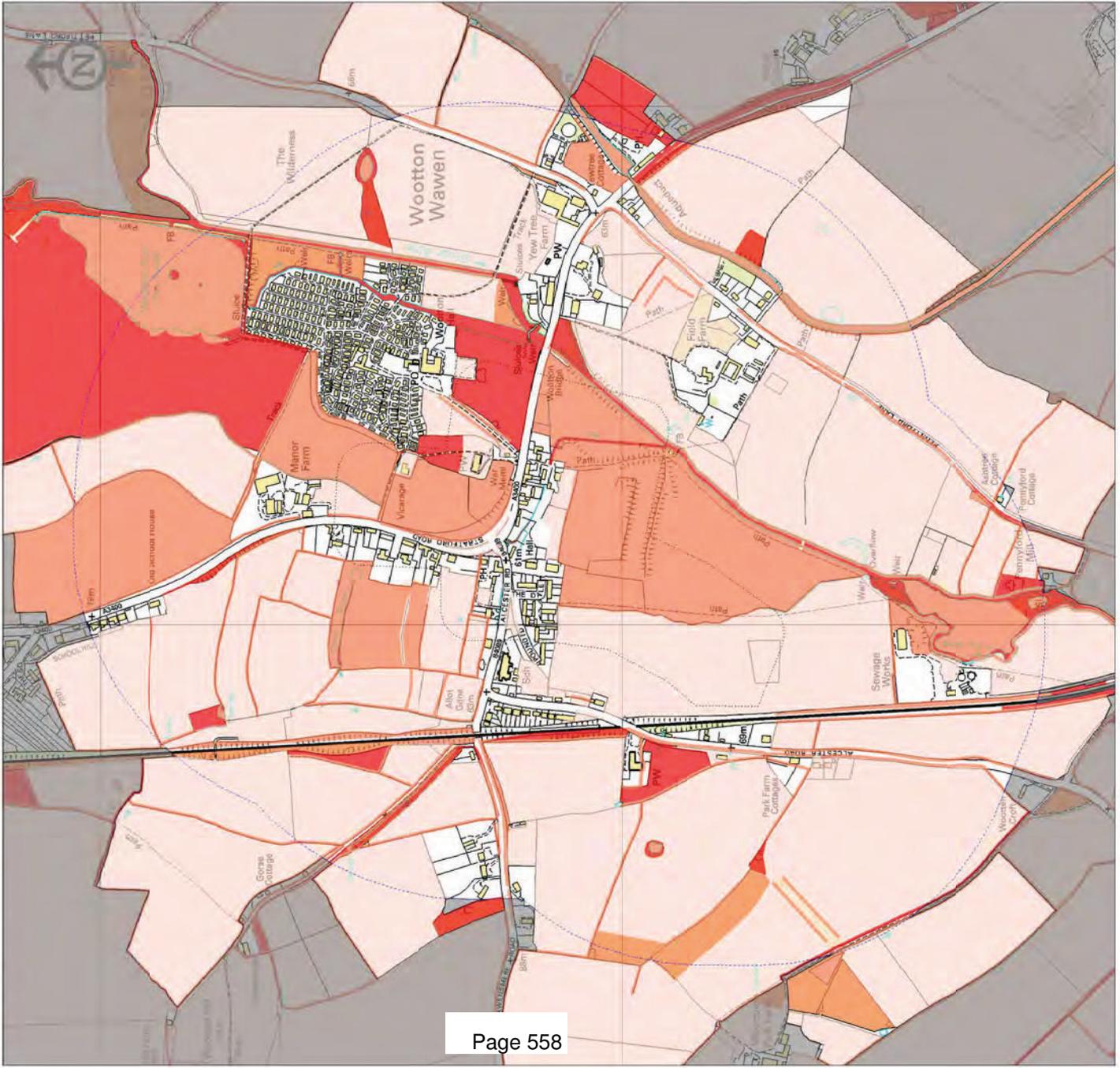
STUDY AREA



500m buffer

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WOOTTON WAWEN



Settlement Distinctiveness

- 3: HIGH
- 2: MODERATE
- 1: LOW

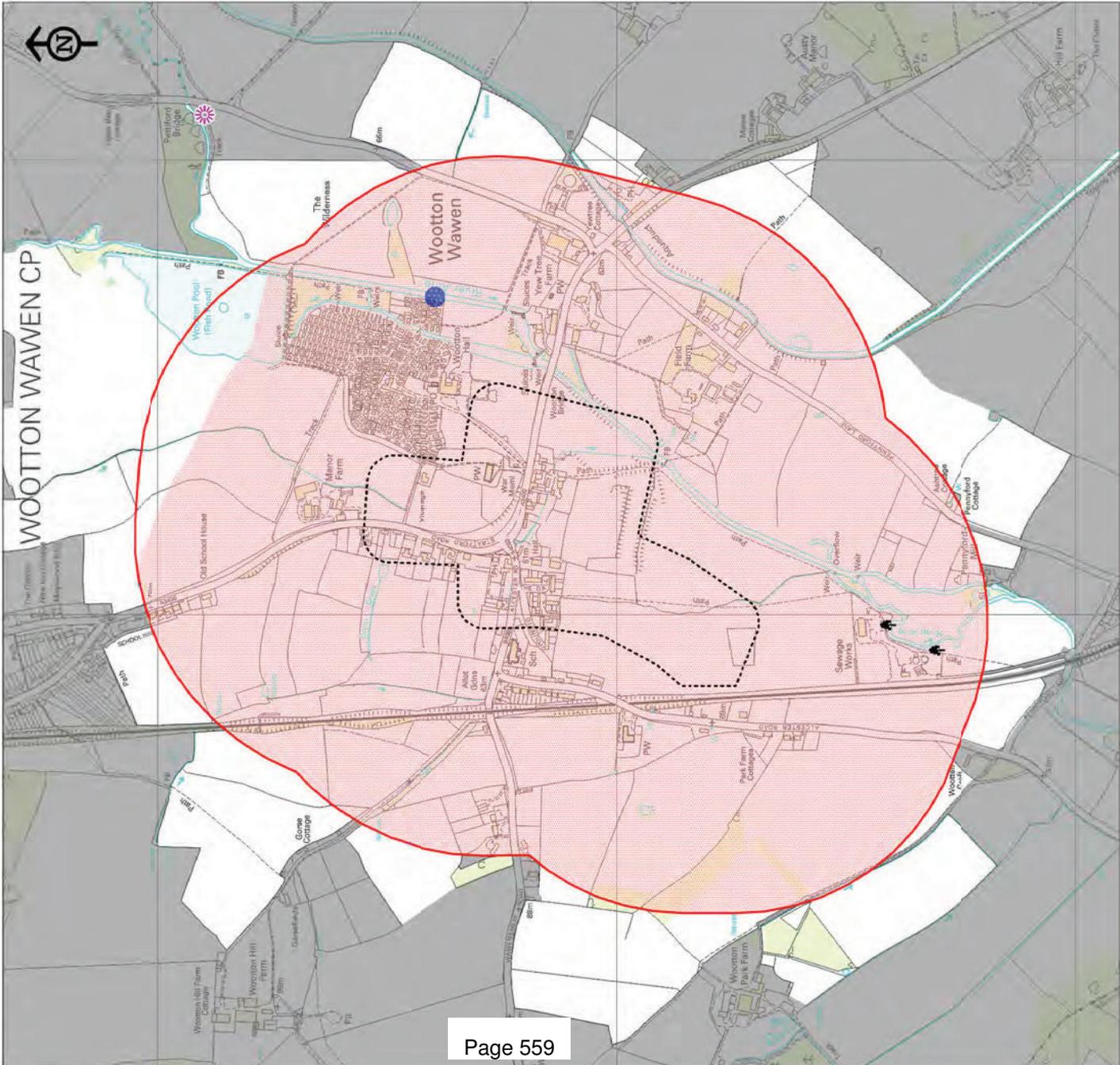
OS DEVELOPED LAND USE AREA

STUDY AREA

- 500m buffer
- Settlements

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WOOTTON WAWEN



Species

Buffer zone for water vole or white-clawed crayfish

Buffer zone for protected amphibians and reptiles

Buffer zone for bat

Black Poplar

Veteran tree

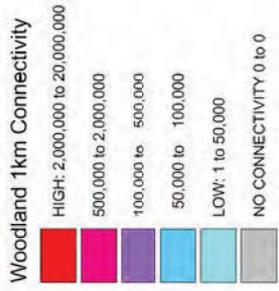
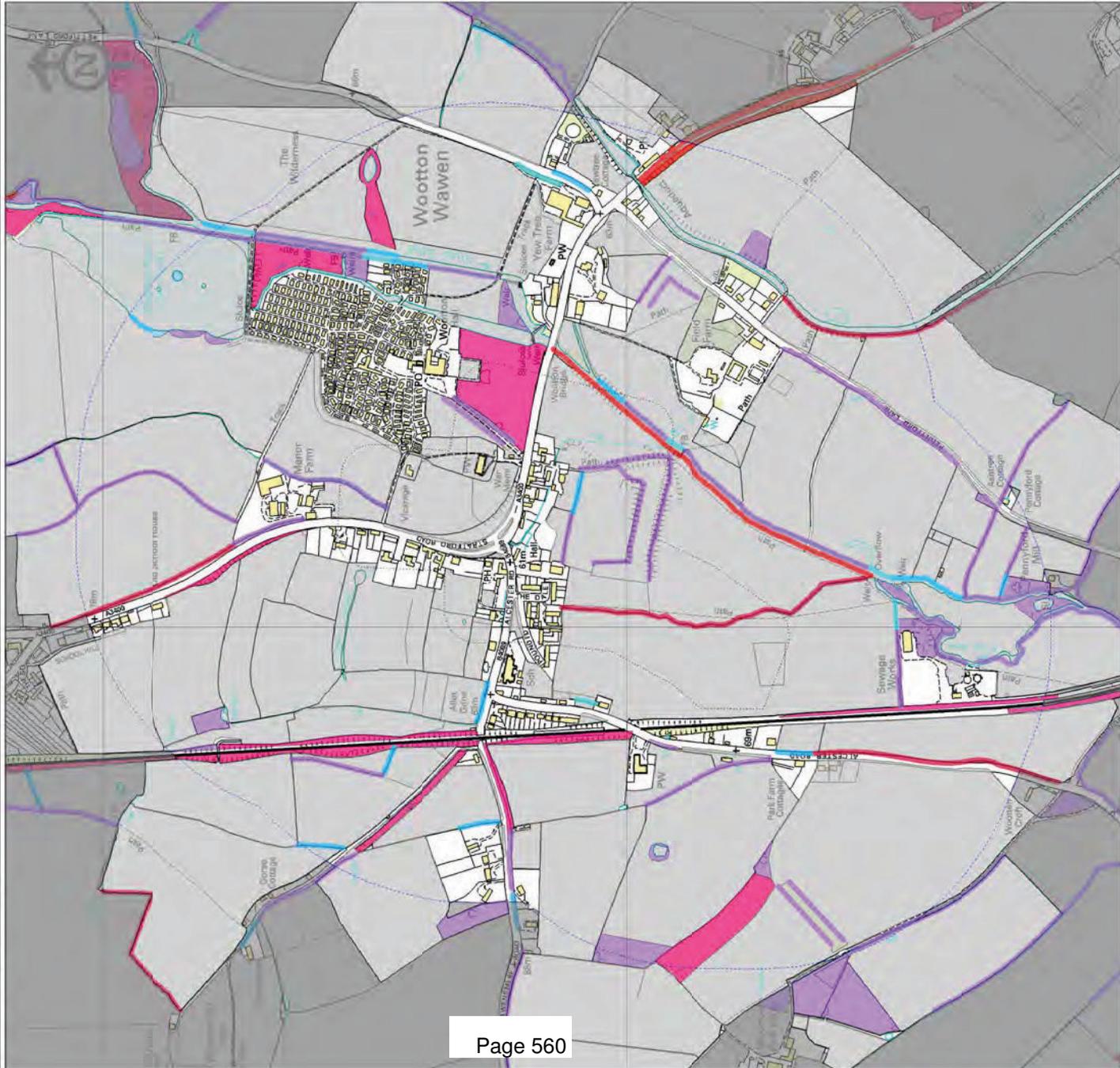
County rare plant

Warwickshire Biological Records Centre



STUDY AREA 500m buffer OS DEVELOPED LAND USE AREA Settlements

WOOTTON WAWEN

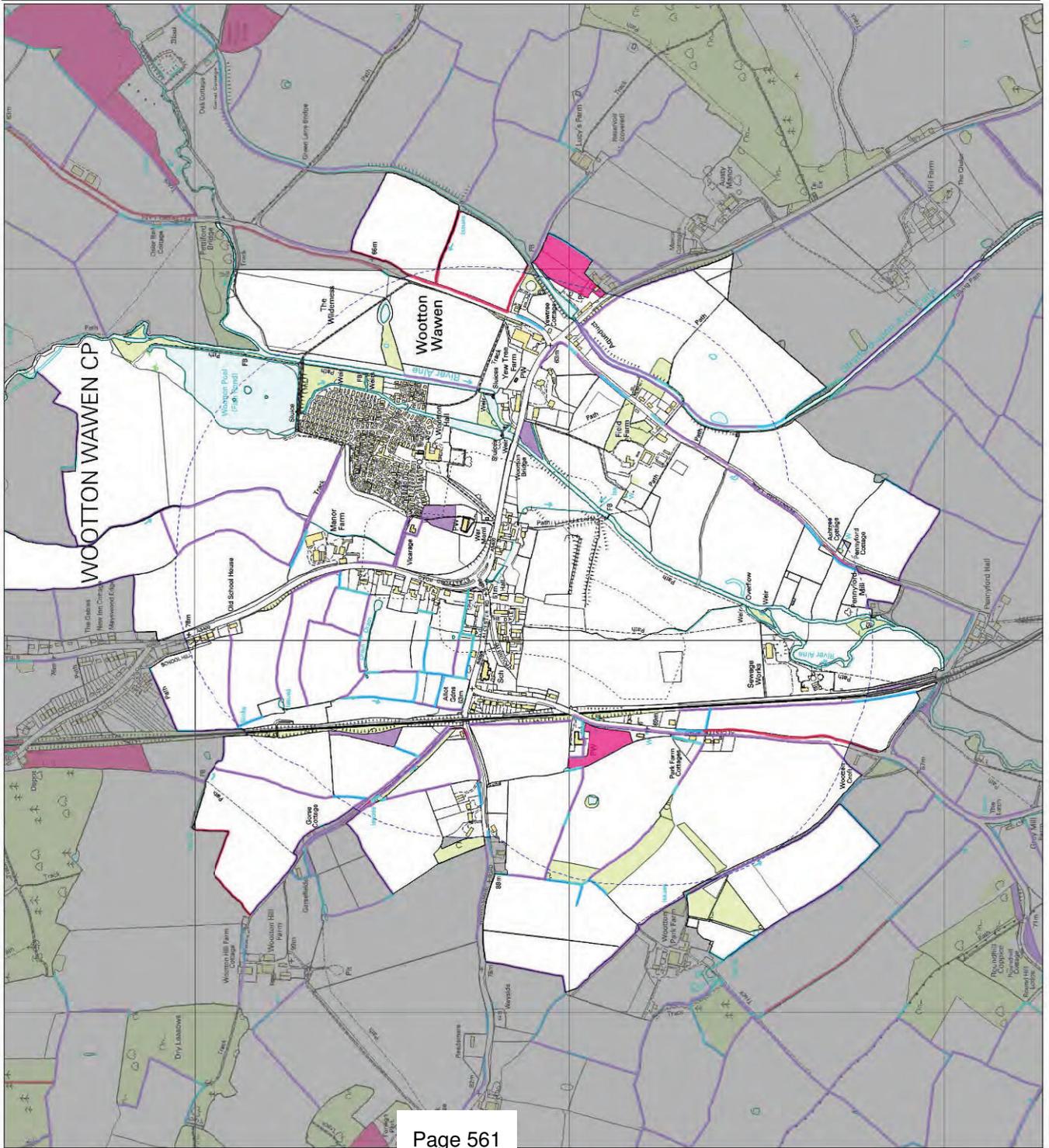


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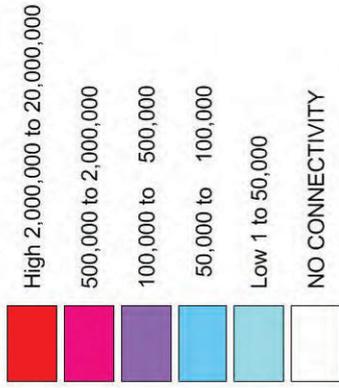


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WOOTTON WAWEN



Grassland 1km Connectivity



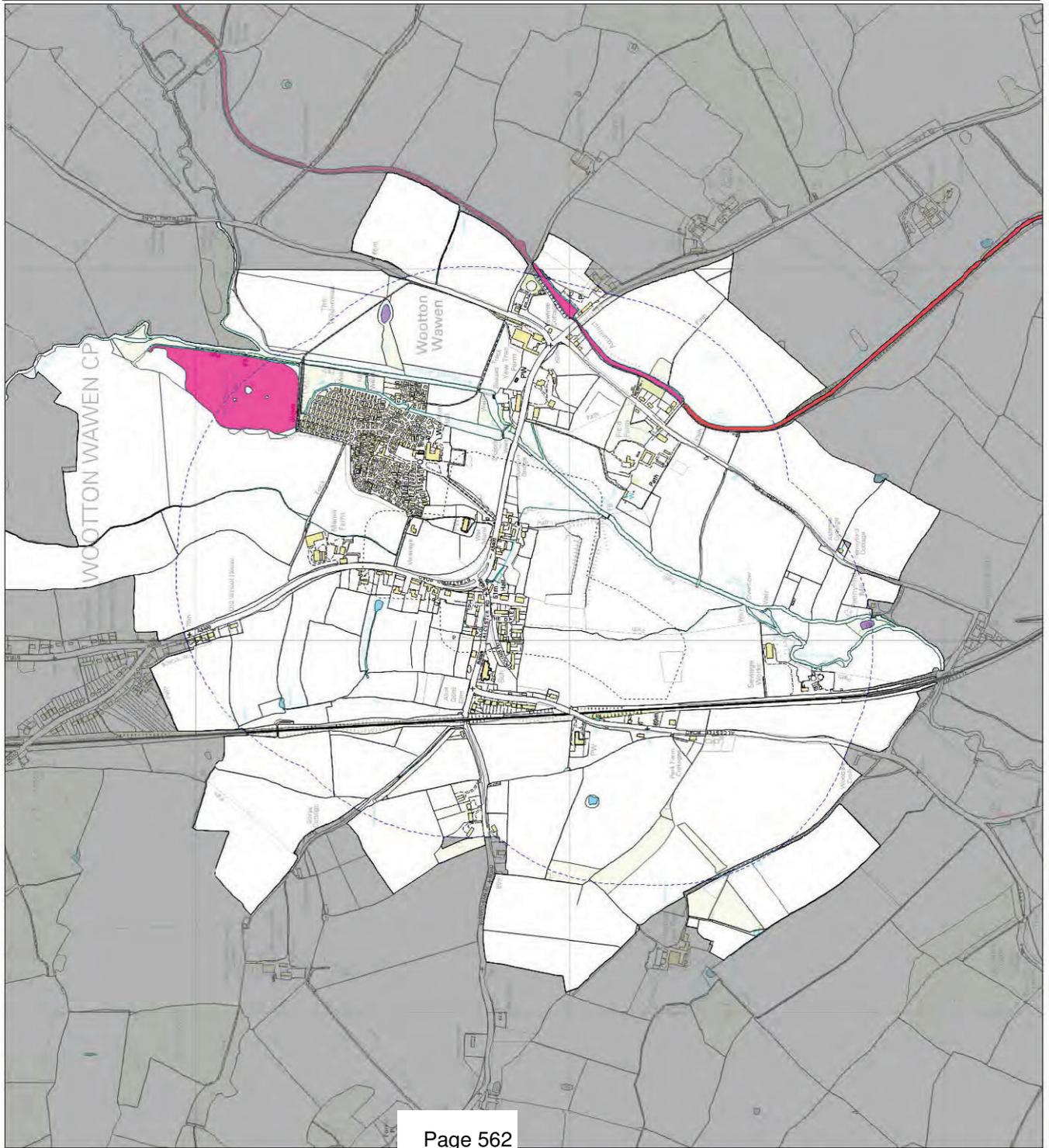
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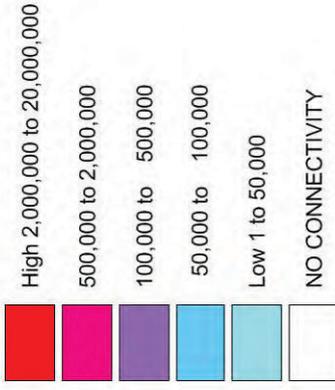


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WOOTTON WAWEN



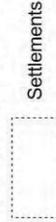
Pond 1km Connectivity



STUDY AREA



OS DEVELOPED LAND USE AREA



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