

Wildlife Site Survey Report for: Gustardwood Common

Site Ref:	42/002	Site size (ha):	42.3ha
District:	St Albans	Grid Ref:	TL174160
Surveyor:	Andrew Harris (CL only attended for 3 hours on one day)		
Date of survey:	21/5/12 and 29/5/12	Weather:	Overcast / sunny
		Duration:	13 hours

Geology:	Bedrock:	LEWES NODULAR CHALK FORMATION AND SEAFORD CHALK FORMATION (UNDIFFERENTIATED) - CHALK
	Superficial Deposits:	CLAY-WITH-FLINTS FORMATION – CLAY, SILT, SAND AND GRAVEL

Original criteria:	H.2.2b, H.2.2c	Habitat:	Neutral and acid grassland
Criteria met:	<p>H.1.2.1 Semi-natural woodland which is not believed to be ancient in origin but which supports a diverse and well developed structure with a varied ground flora (22 AWI indicators)</p> <p>H.2.2a Calcareous (8 indicators – although note some calcareous areas are due to modification by liming)</p> <p>H.2.2b Neutral (11 indicators)</p> <p>H.2.2c Acid (20 indicators)</p> <p>H.2.2e Mixed (30 indicators)</p>		
Changes to boundary?	Small tweaks around clubhouse and pub car park – see map. Though greens on the golf course are of little ecological interest they form part of the integrity of an otherwise ecologically important grassland		

New Site Description:	<p>A mosaic of acid, neutral/acid grassland, heath and secondary woodland within an area mainly of arable land with some residential. The grasslands are relatively species rich considering their acid character, and include Red Fescue (<i>Festuca rubra</i>), Common Bent (<i>Agrostis capillaris</i>), Field Woodrush (<i>Luzula campestris</i>), Heath Bedstraw (<i>Galium saxatile</i>), Common Sorrel (<i>Rumex acetosa</i>) and Sheep's Sorrel (<i>Rumex acetosella</i>). Parts on the most acid soils have Fine-leaved Sheep's Fescue (<i>Festuca filiformis</i>), Sheep's Fescue (<i>Festuca ovina</i>), Heath grass (<i>Danthonia decumbens</i>) and locally Wavy Hair-grass (<i>Danthonia decumbens</i>) and rarely Tormentil (<i>Potentilla erecta</i>) and Bird's-foot (<i>Ornithopus perpusillus</i>). Several patches of heather (<i>Calluna vulgaris</i>) though species-poor are an example of a locally uncommon habitat. Trailing St. John's Wort (<i>Hypericum humifusum</i>) and Heath Woodrush (<i>Luzula multiflora</i>) are rare associates. Areas on more calcareous soils or which have been modified by liming have Crested Hair-grass (<i>Koeleria macrantha</i>), Pignut (<i>Conopodium majus</i>), Black Knapweed (<i>Centaurea nigra</i>), Wild Carrot (<i>Daucus carot</i>) and Dwarf Thistle (<i>Cirsium acaule</i>). Secondary woodland is mainly of Pedunculate Oak (<i>Quercus robur</i>) with some Silver Birch (<i>Betula pendula</i>), with an understorey with dense thickets of Holly (<i>Ilex aquifolium</i>) and more sparse bushes of Hawthorn (<i>Crataegus monogyna</i>) and Elder (<i>Sambucus nigra</i>), the field layer is mainly either surviving area of grassland, dense bramble, or stinging nettle; towards the eastern boundary the association shows some resemblance to that of an ancient woodland with indicators such as Yellow Archangel (<i>Lamiastrum galeobdolon</i>), Dog's Mercury (<i>Mercurialis perennis</i>), Enchanter's Nightshade (<i>Circaea lutetiana</i>), Wood Speedwell (<i>Veronica montana</i>) and Wood Millet (<i>Milium effusum</i>). Some old Hornbeams (<i>Carpinus betulus</i>) are found as boundary features. The site still retains locally rare Juniper (<i>Juniperus communis</i>) from whose Anglo-Saxon name 'Gustard' the common was named.</p>
Compartment 1 (Wheathampstead Parish Council)	<p>Unimproved acid grassland: Small area of grassland near to car park, best quality area close to the surrounding woodland is a good example of locally uncommon acid grassland with <i>Festuca rubra</i>, <i>Festuca ovina</i>, <i>Danthonia decumbens</i>, <i>Agrostis capillaris</i>, <i>Anthoxanthum odoratum</i>, <i>Rumex acetosella</i> and <i>Galium saxatile</i> it has areas with sparse cover of higher plants where there is a bryophyte (<i>Polytrichum</i></p>

	spp) and lichen (<i>Cladonia rangiformis</i>) heath. Tends to lose its acid character nearer to the road where there is extensive <i>Centaurea debeauxii</i> and car park where there is more disturbance. Some invading scrub and bramble has been cleared leaving an area of ferns including <i>Dryopteris dilatata</i> and <i>Dryopteris carthusiana</i> SC% herbs 10-15% - NOTE low SC% herbs partly due to areas being dominated by lichen/bryophyte heath rather than grass dominance
Compartment 2 (Wheathampstead Parish Council)	Small area of semi improved species moderate acid grassland near to public house on east side. Part used as football pitch and generally more semi-improved than other areas of grassland, but still with some acid grassland character, <i>Agrostis capillaris</i> , <i>Festuca rubra</i> , <i>Holcus lanatus</i> , <i>Rumex acetosa</i> , <i>Potentilla erecta</i> (one plant), more rank with <i>Dactylis glomerata</i> and <i>Urtica dioica</i> at edges SC% herbs 15%
Compartment 3 (Wheathampstead Parish Council)	Unimproved neutral/acid and acid grassland with small area of heath in North west sector (north of The Slype). Much is not quite typical of acid grassland it has <i>Agrostis capillaris</i> , <i>Festuca rubra</i> , <i>Galium saxatile</i> , <i>Rumex acetosa</i> . The most representative acid grassland and heathland is in the south-east corner and consists of a zone of <i>Festuca filiformis</i> forming a tufted sward with <i>Galium saxatile</i> and <i>Rumex acetosella</i> around a patch of heather again with <i>Potentilla erecta</i> . More rank grassland on Western margin with <i>Arrhenatherum elatius</i> , <i>Dactylis glomerata</i> , <i>Anthriscus sylvestris</i> , <i>Aegopodium podagraria</i> , <i>Urtica dioica</i> SC% herbs 10-15%
Compartment 4 (Golf Course)	Unimproved acid grassland occupying golf course roughs with small areas of heath, and locally to south a transition to more neutral grassland These hold some of the best examples of acid grassland and heathland on the site which are restricted habitats in Herts. The sward is mainly <i>Festuca rubra</i> , <i>Festuca filiformis</i> , <i>Festuca ovina</i> , <i>Agrostis capillaris</i> , <i>Danthonia decumbens</i> , <i>Galium saxatile</i> , and <i>Rumex acetosella</i> . Several areas of heather <i>Calluna vulgaris</i> regeneration form a species poor heathland surrounded by abundant <i>Galium saxatile</i> . The most southern of the two patches has <i>Hypericum humifusum</i> and <i>Luzula multiflora</i> , while <i>Deschampsia flexuosa</i> occurs in the immediate area. There is some Juniper on the margins of the grassland and one area of <i>Ornithopus perpusillus</i> . SC % herbs 15%
Compartment 5 (Wheathampstead Parish Council)	Secondary oak woodland on north and east margins (East of Lamer Lane, North of The Slype). Generally secondary with <i>Quercus robur</i> ubiquitous as a canopy tree with a few <i>Prunus avium</i> and <i>Betula pendula</i> . The understorey is dominated in the south-eastern part by <i>Ilex aquifolium</i> which forms impenetrable thickets elsewhere it is more open with some hawthorn and elder. Parts of the field layer are dominated by bramble, elsewhere stinging nettle. Though the woodland is very secondary in character it has several indicators which become increasingly common towards the eastern boundary <i>Lamium galeobdolon</i> , <i>Mercurialis perennis</i> and <i>Circaea lutetiana</i> are the most extensive. A few <i>Veronica montana</i> , <i>Moehringia trinervia</i> and <i>Milium effusum</i> occur towards the old boundary hedge. This is no doubt due to the age of this feature in particular and to the continuity of the common as a habitat in general.
Compartment 6 (Golf Course)	Secondary Pedunculate Oak Woodland on Golf Course – this comprises wooded belts marginal woodland and separate groves within the grassland. It is typically secondary in character with few AWIs, some parts have a dense <i>Ilex aquifolium</i> understorey elsewhere it is sparse. The field layer is species poor dominated by bramble with some <i>Dactylis glomerata</i> and <i>Stellaria media</i> in parts.
Compartment 7 (Golf Course)	Secondary Pedunculate Oak groves and linear wooded belts on golf course with no understorey and remnant grassland similar to the surrounding open areas with <i>Festuca rubra</i> , <i>Festuca filiformis</i> , <i>Agrostis capillaris</i> and <i>Galium saxatile</i> <i>Deschampsia cespitosa</i> , but shaded so more impoverished SC% herbs grassland layer 5%. Marginal heather (<i>Calluna vulgaris</i>) stands sometimes extend beneath the canopy
Compartment 8 (Golf Course)	Pond (Central-western area): Has a good emergent and marginal flora, though some of this was probably introduced. NOTE - a second pond on the south of the site is obviously lined and seems to have little flora besides a cultivated water lily.

Other habitats (Golf Course)	<p>Fairways, greens etc: Most intensively mown areas AM, other parts more PSIG. Not detailed species list made due to low diversity with herbs largely absent, but some areas do have a similar grass composition to, and merge into, less improved acid grasslands which border them.</p> <p>Hedgerows: Well clipped hedgerows are maintained where the golf course borders roads, where they provide a barrier and are largely <i>Crataegus monogyna</i>. Part of the southern boundary of the golf course has a slightly more diverse hedgerow with <i>Sambucus nigra</i>, <i>Ulmus procera</i>, <i>Ilex aquifolium</i>, <i>Crataegus monogyna</i> and <i>Fraxinus excelsior</i> (Standard) and is continuous with an area of dense scrub. No comprehensive species list made.</p> <p>NOTE: Fragments of old ecologically valuable boundary hedgerow on the east side (Wheathampstead Parish Council) have essentially become part of the Woodland and are recorded as such in Compartment 5</p>
Adjacent land:	<p>An old boundary feature - bank and ditch runs parallel to the present western boundary for c50m (with a track in between). This has a species-rich, formerly laid, hedgerow now forming linear woodland with eight woody species recorded (7/30m length) with <i>Carpinus betulus</i>, and <i>Quercus robur</i> (canopy), <i>Crataegus monogyna</i>, <i>Prunus avium</i>, <i>Ilex aquifolium</i>, <i>Prunus spinosa</i>, <i>Rosa canina</i>, <i>Rosa arvensis</i> (understorey). Non-woody <i>Rubus fruticosus</i> agg. and <i>Stellaria holostea</i> dominate beneath. This may represent an original boundary of the site and, as such, be considered as part of it.</p> <p>The golf course continues to the south of the site. Elsewhere the immediate surrounding are mainly arable, improved grassland and residential housing</p>
Fauna:	<p>Birds: Sparrowhawk, Woodpigeon, Great-spotted Woodpecker, Green Woodpecker, Wren, Robin, Blackbird, Song Thrush, Chiffchaff, Blackcap, Nuthatch, Long-tailed Tit, Coal Tit, Blue Tit, Chaffinch, Bullfinch</p>
	<p>Mammals: rabbits</p>
	<p>Invertebrates: Butterflies: Orange Tip, Meadow Brown Harlequin Ladybird, 2-spot Ladybird</p>
Invasive species:	Some cultivated Yellow Archangel in woodland
Current Management:	Unknown in detail, but some cutting back of oak around small areas of grassland, some of clearance of holly understorey, golf course maintain grass cutting etc. Areas of heather regeneration on golf course roughs
Recommended Management:	
Comp 1	Keep surrounding scrub and bramble from invading grassland try to create graded edge. The taller peripheral areas of the grassland could benefit from a late summer cut (cuttings removed).
Comp 2	Difficult due to relatively small area and amenity use. More rank vegetation on the periphery could be regularly cut to create a more species-rich fringe.
Comp 3	Some younger oaks could be removed from the margin of woodland where it encroaches on the heather area. The ranker grassland areas on the western side of this compartment should be cut in spring and summer (cuttings removed) to stop this area from expanding onto the high quality grassland, otherwise the grassland seems in good conditions as it is, though this needs to be kept monitored as more competitive coarse grass species are present in parts and a late summer cut introduced if deemed necessary.
Comp 4	Golf course roughs – difficult to envisage any major change in regime. Heaps of grass cuttings have enriched the sward and altered its composition, so compost areas must be kept to very restricted areas, perhaps less ecologically rich areas of woodland. Some parts, particularly heather regeneration areas are vulnerable to invasion by silver birch (<i>Betula pendula</i>) – control may be already happening as there are no large saplings. It is essential to maintain areas of rough along all the margins of fairways and larger areas elsewhere etc. This ensures there is a framework of semi/unimproved habitat throughout the site with species pools to maintain the site’s potential to revert to semi-natural grassland throughout. There does not appear to be much regeneration of Juniper (<i>Juniperus communis</i>) which is of concern, one reason could be rabbits grazing off young seedlings, but short open turf is

	needed for seed to generate, so exclusion may not be a simple answer without some creation of bare soil.
Comp 5	Secondary Oak Woodland east and north of road (owned by Wheathamstead Parish Council – some control of holly already occurs; perhaps also try opening up of glades, some pollarding of oaks potentially to speed up development of veteran features on young trees, some clearance around heather areas to north to promote spread of heathland community.
Comp 6	Secondary Oak Woodland west of road – stop any overshadowing of neighbouring grassland-suggest pollarding back some trees on edge, especially where there is a risk of shading out of junipers. Prevent areas of holly from becoming too dominant. Be cautious with clearance of bramble which have ecological interest representing several species so indicative of the habitat /soil type and also providing cover and nesting sites
Comp 7	Groves of Oak with grassland beneath could be thinned to ensure the grassland survives. Prevent shading out of any Junipers close to woodland
Comp 8	Pond – in good condition with emergent and marginal species, favour native species.
Other habitats on Golf Course	Greens and fairways – management unlikely to change. Maintain and encourage grassland mix native to site – see note for Comp 4 above. Hedgerows – maintained as functional barriers as such they provide shelter for the grassland and environment for invertebrates so maintain regime.

Woodland habitat condition (secondary woodland area to East)		
Attributes	Targets for positive condition	detail
Structure and natural processes	UNDERSTOREY (2-5m) present over at least 20% of total stand area (NB: Beech (<i>Fagus sylvatica</i>) and Oak (<i>Quercus</i>) woods often have sparse shrub layer)	Mainly holly
	CANOPY COVER present over 30-90% of stand area (Coppiced stands have lower canopy cover)	Yes dominated by pedunculate oak with some cherry and silver birch
	AGE CLASSES - at least three, spread across the average life expectancy of the commonest trees	Maturing oaks; little in way of veterans and young saplings except for stand of silver birch saplings in NW
	OLD GROWTH FEATURES: Some areas of relatively undisturbed mature/old growth stands or a scatter of large trees allowed to grow to over maturity/death on site (e.g. min of 10% of the woodland or 5-10 trees/hectare)	Maturing secondary woodland with no old growth features which are limited to some boundary hedgerow hornbeams.
	FALLEN DEAD: A minimum of 3 fallen lying trees >20cm diameter per ha and 4 trees per ha allowed to die standing	Little dead wood
Regeneration	Signs of seedlings and saplings growth? – describe age classes and density	Little regeneration apparent except for younger silver birch in NW quarter
	No more than 20% of areas regenerated by planting as opposed to natural regeneration?	No planting
	Are the new plantings all with natives?	n/a
Composition: trees and shrubs	At least 95% of cover in any one layer of site native or acceptably naturalised species	Yes
	Death/destruction of native woodland species through effects of deer/squirrels or other external unnatural factors (e.g fires/flytipping etc) not more than 10% by number of trees? Or not more than 10% of total area ?	Little seen

Species List

Scientific Name	Common Name	WS inds (*a/n/c/w/f) & neg inds ('-')	Comp1 grassland by car park	Comp2 Grassland eastern	Comp3 grassland northern	Comp4 Golf course rough	Comp5 - Woodland E and NE	Comp6 - Woodland golfcourse	Comp7 - woodland with grassland field layer	Comp8 - Pond	all inds	no of comps total
			DAFOR	DAFOR	DAFOR	DAFOR	DAFOR	DAFOR	DAFOR	DAFOR		
<i>Acer campestre</i>	Maple, Field	*	+				+				x	2
<i>Acer pseudoplatanus</i>	Sycamore						R					1
<i>Achillea millefolium</i>	Yarrow		+	R		+						3
<i>Aegopodium podagraria</i>	Ground Elder				R	+	+					3
<i>Agrostis capillaris</i>	Bent, Common	a/n	R	R	O	O		R	F		x	6
<i>Aira praecox</i>	Hair-grass, Early	a				+					x	1
<i>Alliaria petiolata</i>	Mustard, Garlic						+	+				2
<i>Alopecurus pratensis</i>	Foxtail, Meadow				+	+						2
<i>Anthoxanthum odoratum</i>	Grass, Sweet Vernal	n	R	+	+	R					x	4
<i>Anthriscus sylvestris</i>	Parsley, Cow	- c/n/w					+	+				3
<i>Aphanes arvensis</i>	Parsley-piert			+								1
<i>Aponogeton distachyos</i>	Water Hawthorn*									R		1
<i>Arctium lappa</i>	Burdock, Greater					+						1
<i>Arrhenatherum elatius</i>	Oat-grass, False	- a/c/n/w	+		R	R		R				4
<i>Artemisia vulgaris</i>	Mugwort					+						1
<i>Arum maculatum</i>	Lords-and-Ladies						+					1
<i>Bellis perennis</i>	Daisy	- a/c	+	+								2
<i>Betula pendula</i>	Birch, Silver				+	R	+	+				4
<i>Betula pubescens</i>	Birch, Downy					+						1
<i>Brachypodium sylvaticum</i>	Brome, False						+					1
<i>Bromus hordeaceus</i>	Brome, Soft	- n	+									1
<i>Calluna vulgaris</i>	Heather	a			+	R	R		+		x	2
<i>Caltha palustris</i>	Marigold, Marsh	f/w								+	x	1
<i>Campanula rotundifolia</i>	Harebell	c/a			+	R					x	2
<i>Cardamine flexuosa</i>	Bitter-cress, Wavy	*	+								x	1
<i>Carex pendula</i>	Sedge, Pendulous	*					+				x	1
<i>Carex pilulifera</i>	Sedge, Pill	a				+					x	1
<i>Carpinus betulus</i>	Hornbeam	*					R	+			x	2
<i>Centaurea debeauxii</i>	Knapweed, Chalk		R	R	+	+					x	4
<i>Cerastium fontanum</i>	Mouse-ear, Common	- a	R	+	+	R						4

Scientific Name	Common Name	WS inds (* / a / n / c / w / f) & neg inds ('-')	Comp1	Comp2	Comp3	Comp4	Comp5	Comp6	Comp7	Comp8	all inds	no of comps total
			grassland by car park DAFOR	Grassland eastern DAFOR	grassland northern DAFOR	Golf course rough DAFOR	Woodland E and NE DAFOR	Woodland golfcourse DAFOR	woodland with grassland field layer DAFOR	Pond DAFOR		
<i>Cerastium glomeratum</i>	Mouse-ear, Sticky					+						1
<i>Chamerion angustifolium</i>	Willowherb, Rosebay	- a/c			+							1
<i>Circaea lutetiana</i>	Enchanter's-nightshade	*					R	+			x	2
<i>Cirsium acaule</i>	Thistle, Dwarf / Stemless	c	+		+	+					x	3
<i>Cirsium arvense</i>	Thistle, Creeping	- a/c/n/w	R	+	+	+						4
<i>Cirsium vulgare</i>	Thistle, Spear	- a/c/n/w					+					1
<i>Conopodium majus</i>	Pignut	*/a/n				+	+				x	2
<i>Convolvulus arvensis</i>	Bindweed, Field		+									1
<i>Corylus avellana</i>	Hazel	*					R				x	1
<i>Crataegus monogyna</i>	Hawthorn					R		R				2
<i>Crepis vesicaria</i>	Hawk's-beard, Beaked					+						1
<i>Cytisus scoparius</i>	Broom					+						1
<i>Dactylis glomerata</i>	Cocksfoot	- a/c/n/w	R	R	R	R	+	R				6
<i>Danthonia decumbens</i>	Grass, Heath	a	R			R					x	2
<i>Daucus carota</i>	Carrot, Wild					+						1
<i>Deschampsia flexuosa</i>	Hair-grass, Wavy	a				R	+				x	2
<i>Dryopteris affinis</i>	Fern, Scaly Male	*					+				x	1
<i>Dryopteris carthusiana</i>	Fern, Narrow Buckler	*	+								x	1
<i>Dryopteris dilatata</i>	Fern, Broad Buckler	*			+		+				x	2
<i>Dryopteris filix-mas</i>	Fern, Male		+	+			+					3
<i>Elytrigia repens</i>	Couch, Common					+						1
<i>Epilobium tetragonum</i>	Willowherb, Sq-stemmed		+									1
<i>Fagus sylvatica</i>	Beech					+	+	+				3
<i>Festuca filiformis</i>	Fescue, Fine-lvd Sheep's	a			O	O			O		x	3
<i>Festuca ovina</i>	Fescue, Sheep's	c/a	R			+					x	2
<i>Festuca rubra agg.</i>	Fescue, Red (family)		A	A	F	F			R			5
<i>Fragaria vesca</i>	Strawberry, Wild			+								1
<i>Fraxinus excelsior</i>	Ash			+			R	+				3
<i>Galeopsis agg.</i>	Hemp-nettle, agg.							+				1
<i>Galium aparine</i>	Cleavers	- c/n	+		+	+	R					4
<i>Galium saxatile</i>	Bedstraw, Heath	a	+	R	R	R			+		x	5

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			grassland by car park	Grassland eastern	grassland northern	Golf course rough	Woodland E and NE	Woodland golfcourse	woodland with grassland field layer	Pond		
			DAFOR	DAFOR	DAFOR	DAFOR	DAFOR	DAFOR	DAFOR	DAFOR		
<i>Geranium dissectum</i>	Cranesbill, Cut-leaved		+			+						2
<i>Geranium robertianum</i>	Herb Robert		+				+					2
<i>Geum urbanum</i>	Wood Avens		+	+				R	+			4
<i>Glechoma hederacea</i>	Ground Ivy				R	+	R					3
<i>Glyceria maxima</i>	Sweet-grass, Reed	- w								F		1
<i>Glyceria sp.</i>	Sweetgrass sp.									R		1
<i>Hedera helix</i>	Ivy							O				1
<i>Heracleum sphondylium</i>	Hogweed		+	+	+	+						4
<i>Holcus lanatus</i>	Yorkshire Fog	- a/c/n/w	R	O	R	R	+		R			6
<i>Holcus mollis</i>	Soft-grass, Creeping	a						+			x	1
<i>Hyacinthoides non-scripta</i>	Bluebell	*						+			x	1
<i>Hyacinthoides x massartiana</i>	Blubell, hybrid ?						+					1
<i>Hypericum humifusum</i>	St John's-wort, Trailing	*				+					x	1
<i>Hypochaeris radicata</i>	Cat's-ear, Common		+				R					2
<i>Ilex aquifolium</i>	Holly	*				+	O	R			x	3
<i>Iris pseudacorus</i>	Iris, Yellow flag									R		1
<i>Juncus effusus</i>	Rush, Soft									R		1
<i>Juniperus communis subsp communis</i>	Juniper (native)					+						1
<i>Koeleria macrantha</i>	Hair-grass, Crested	c					R				x	1
<i>Lamiaeum galeobdolon</i>	Archangel, Yellow	*						R			x	1
<i>Lamiaeum galeobdolon ssp argentatum</i>	Archangel, Yellow, cultivated*							R				1
<i>Lamium album</i>	Dead Nettle, White		+		+							2
<i>Lamium purpureum</i>	Dead-Nettle, Red							+				1
<i>Lapsana communis</i>	Nipplewort						+	+				2
<i>Larix decidua</i>	Larch, European*							+				1
<i>Larix decidua x kaempferi = L. x marschliisii</i>	Larch, hybrid*					+						1
<i>Leontodon autumnalis</i>	Hawkbit, Autumn					+						1
<i>Leucanthemum vulgare</i>	Daisy, Oxeye	c/n	+								x	1
<i>Lolium perenne</i>	Rye-grass, Perennial	- a/c/n/w	+		R	+						3

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			DAFOR	DAFOR	DAFOR	DAFOR	DAFOR	DAFOR	DAFOR	DAFOR		
<i>Lonicera periclymenum</i>	Honeysuckle				+	+	R	R				4
<i>Lotus corniculatus</i>	Bird's-foot-trefoil, Com'n	c/n	+			+					x	2
<i>Luzula campestris</i>	Wood-rush, Field	a/n	R	+	R	R					x	4
<i>Luzula multiflora</i>	Wood-rush, Heath	a				+					x	1
<i>Mentha aquatica</i>	Mint, Water									+		1
<i>Mercurialis perennis</i>	Dog's Mercury	*					R				x	1
<i>Milium effusum</i>	Millet, Wood	*					+				x	1
<i>Moehringia trinervia</i>	Sandwort, Three-veined	*					+				x	1
<i>Myosotis arvensis</i>	Forget-me-not, Field		+									1
<i>Nymphaea alba</i>	Water-lily, White									R		1
<i>Ornithopus perpusillus</i>	Bird's-foot	a				+					x	1
<i>Phleum bertolonii</i>	Catstail, Smaller					+						1
<i>Pilosella officinarum</i>	Mouse-ear Hawkweed		+		+	R						3
<i>Plantago lanceolata</i>	Plantain, Ribwort		+			R	+					3
<i>Plantago major</i>	Plantain, Greater	- a/c/n	+		+	+	+					4
<i>Poa annua</i>	Meadow-grass, Annual			R	+	R	+					4
<i>Poa nemoralis</i>	Meadow-grass, Wood	*						+			x	1
<i>Poa pratensis</i>	Meadow-grass, Smooth		+									1
<i>Poa trivialis</i>	Meadow-grass, Rough	- w		R	+	R	+	R				5
<i>Potentilla anserina</i>	Silverweed			+								1
<i>Potentilla erecta</i>	Tormentil	a		+	+	+					x	3
<i>Potentilla reptans</i>	Cinquefoil, Creeping		+			+						2
<i>Prunella vulgaris</i>	Selfheal		+	+			+					3
<i>Prunus avium</i>	Cherry, Wild	*					R	+			x	2
<i>Prunus spinosa</i>	Blackthorn						+					1
<i>Pteridium aquilinum</i>	Bracken						R					1
<i>Pyrus agg.</i>	Pear*					+						1
<i>Quercus robur</i>	Oak, Pedunculate				+	+	A	D	D			5
<i>Ranunculus acris</i>	Buttercup, Meadow	n	+	+			+				x	3
<i>Ranunculus bulbosus</i>	Buttercup, Bulbous	c/n	+		+						x	2
<i>Ranunculus ficaria</i>	Celandine, Lesser		+									1

Scientific Name	Common Name	WS inds (* / a / n / c / w / f) & neg inds ('-')	Comp1 grassland by car park	Comp2 Grassland eastern	Comp3 grassland northern	Comp4 Golf course rough	Comp5 - Woodland E and NE	Comp6 - Woodland golfcourse	Comp7 - woodland with grassland field layer	Comp8 - Pond	all inds	no of comps total
			DAFOR	DAFOR	DAFOR	DAFOR	DAFOR	DAFOR	DAFOR	DAFOR		
<i>Ranunculus flammula</i>	Spearwort, Lesser									R		1
<i>Ranunculus peltatus</i>	Water Crowfoot, Pond									F		1
<i>Ranunculus repens</i>	Buttercup, Creeping	- w	R	R		+	+					4
<i>Rosa arvensis</i>	Rose, Field						+					1
<i>Rosa canina agg</i>	Rose, Dog							+				1
<i>Rubus fruticosus agg.</i>	Bramble		+	+		R	F	F	R			6
<i>Rubus idaeus</i>	Raspberry						+					1
<i>Rumex acetosa</i>	Sorrel, Common	n	R	R	R	+					x	4
<i>Rumex acetosella</i>	Sorrel, Sheep's	a	R			R					x	2
<i>Rumex crispus</i>	Dock, Curled	- c/n/w	+									1
<i>Rumex obtusifolius</i>	Dock, Broad-leaved	- c/n/w	+	+		+						3
<i>Rumex sanguineus</i>	Dock, Wood						R					1
<i>Sagina procumbens</i>	Pearlwort, Procumbent			+								1
<i>Salix caprea</i>	Willow, Goat						+					1
<i>Sambucus nigra</i>	Elder						+					1
<i>Schedonorus giganteus</i>	Fescue, Giant	*					+				x	1
<i>Senecio jacobaea</i>	Ragwort, Common	- a/c/n	+	+		+						3
<i>Solanum dulcamara</i>	Bittersweet		+	+			+					3
<i>Sonchus asper</i>	Sow-thistle, Prickly		+			+						2
<i>Sorbus aucuparia</i>	Rowan / Mountain Ash					+	+	+				3
<i>Stachys sylvatica</i>	Woundwort, Hedge						+					1
<i>Stellaria graminea</i>	Stitchwort, Lesser	a/n	R	R	R	R					x	4
<i>Stellaria holostea</i>	Stitchwort, Greater			+			+					2
<i>Stellaria media</i>	Chickweed					R		R				2
<i>Taraxacum officinale agg.</i>	Dandelion family		+		+	+						3
<i>Tilia platyphyllos x cordata = T. x europaea</i>	Lime, Common*						+					1
<i>Trifolium dubium</i>	Trefoil, Lesser		+	+								2
<i>Trifolium medium</i>	Clover, Zigzag					+						1
<i>Trifolium repens</i>	Clover, White	- a/c/n/w	+	R		+						3
<i>Typha latifolia</i>	Bulrush									R		1

Scientific Name	Common Name	WS inds (* / a / n / c / w / f) & neg inds ('-')	Comp1	Comp2	Comp3	Comp4	Comp5	Comp6	Comp7	Comp8	all inds	no of comps total	
			grassland by car park	Grassland eastern	grassland northern	Golf course rough	Woodland E and NE	Woodland golfcourse	woodland with grassland field layer	Pond			
			DAFOR	DAFOR	DAFOR	DAFOR	DAFOR	DAFOR	DAFOR	DAFOR			
<i>Ulex europaeus</i>	Gorse	a	+		+	+		R			X	4	
<i>Urtica dioica</i>	Nettle, Stinging	- a/c/n/w	+	R	R	+	R	O				6	
<i>Veronica arvensis</i>	Speedwell, Wall		+	+		+						3	
<i>Veronica chamaedrys</i>	Speedwell, Germander	c/n	+	+	+	+					X	4	
<i>Veronica filiformis</i>	Speedwell, Slender					+						1	
<i>Veronica hederifolia</i> subsp. <i>hederifolia</i>	Speedwell, Ivy-leaved						R					1	
<i>Veronica montana</i>	Speedwell, Wood	*					+				X	1	
<i>Veronica officinalis</i>	Speedwell, Heath	a				+					X	1	
<i>Veronica serpyllifolia</i>	Speedwell, Thyme-leaved		+	R			+					3	
<i>Vicia hirsuta</i>	Tare, Hairy					+						1	
<i>Vicia sativa</i>	Vetch, Common		+									1	
<i>Viola odorata</i>	Violet, Sweet		+									1	
<i>Viola reichenbachiana</i>	Violet, Early Dog	*					+				X	1	
*= <i>planted/introduced/escape</i>			per compartment totals:			62	39	39	81	63	31	7	11

Total species (all comp.s)		164		total indicators		51	
Comp1 grassland by car park	AWI	Neut	Acid	Calc	Wet	Fen	c/a/n/w
	3	10	8	6	0	0	16
Comp2 Grassland eastern	AWI	Neut	Acid	Calc	Wet	Fen	c/a/n/w
	0	7	5	1	0	0	9
Comp3 grassland northern	AWI	Neut	Acid	Calc	Wet	Fen	c/a/n/w
	1	7	9	4	0	0	14
Comp4 Golf course rough	AWI	Neut	Acid	Calc	Wet	Fen	c/a/n/w
	3	8	19	6	0	0	25
Comp5 - Woodland E and NE	AWI	Neut	Acid	Calc	Wet	Fen	c/a/n/w
	17	2	4	0	0	0	5
Comp6 - Woodland golf course	AWI	Neut	Acid	Calc	Wet	Fen	c/a/n/w
	6	1	3	0	0	0	3
Comp7 - woodland with grassland field layer	AWI	Neut	Acid	Calc	Wet	Fen	c/a/n/w
	0	1	5	0	0	0	5
Comp8 - Pond	AWI	Neut	Acid	Calc	Wet	Fen	c/a/n/w
	0	0	0	0	1	1	1
All Compartments:	AWI	Neut	Acid	Calc	Wet	Fen	c/a/n/w
	22	11	20	8	1	1	30
Thresholds:	AWI	Neut	Acid	Calc	Wet	Fen	c/a/n/w
	min size (ha)	1	0.25	0.25	0.25	0.25	0.25
	min indicators	10	8	5	8	5	5

DAFOR Scale:

D	Dominant	>75% cover
A	Abundant	51-75% cover
F	Frequent	26-50% cover
O	Occasional	11-25% cover
R	Rare	<11% cover, >=5 individual plants
+	Very Rare	<5 individual plants

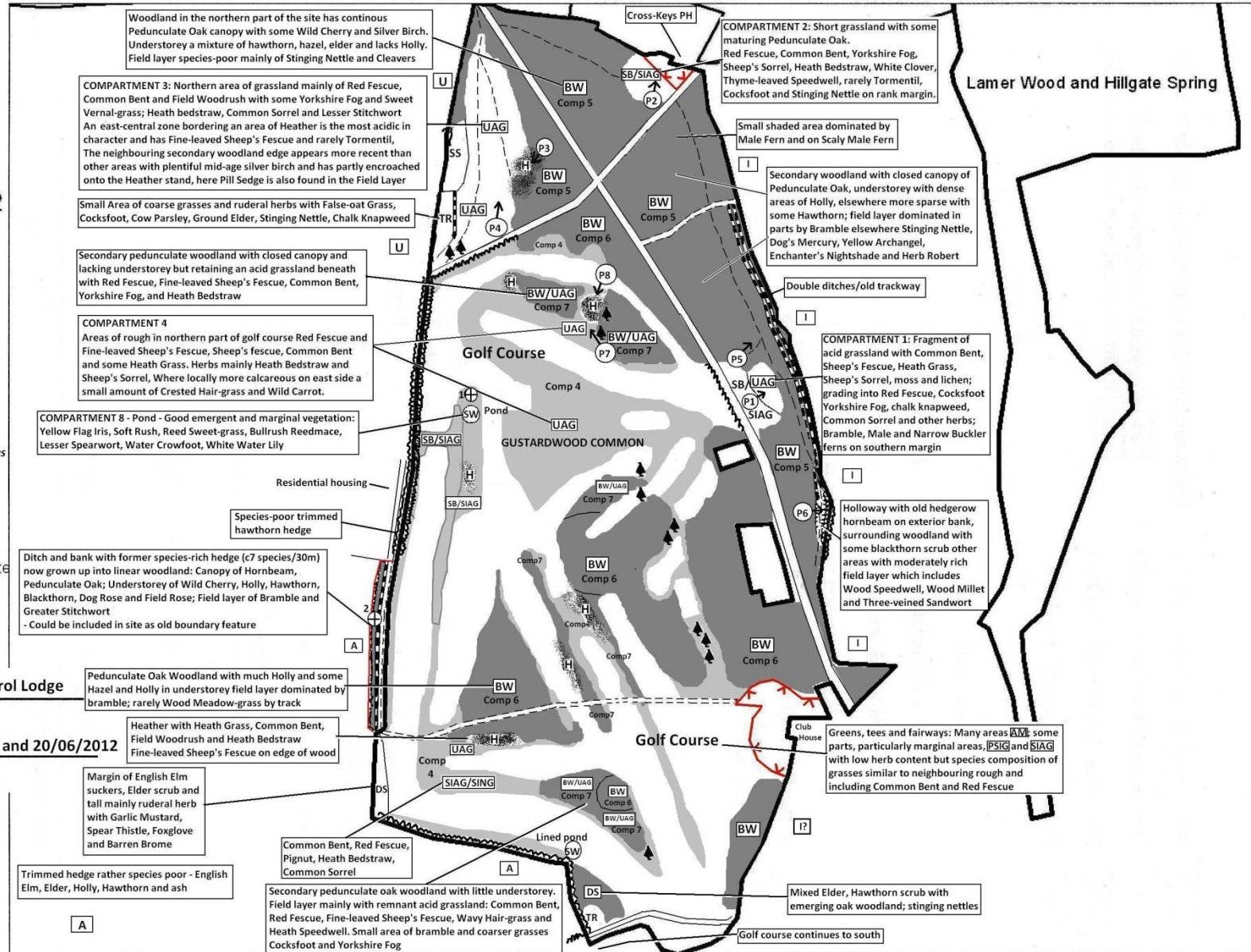
Map



Wildlife Site 42/002
Gustardwood
Common

Legend

- Broad-leaved Woodland
- Main areas of golf course rough
- Heath (*Calluna vulgaris*)
- Juniper
- Special features
 1. Bird's-foot *Ornithopus perpusillus*
 2. Standing dead wood (old oak with cavities)
- Selected Wildlife Site
- Proposed alterations to boundary


















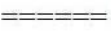
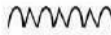




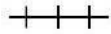



















Surveyor: Andrew Harris, Carol Lodge

Date of survey: 29/05/2012 and 20/06/2012

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Map key:

		WS boundary (NB use a red line to denote anywhere boundary changes should be made)	
W O O D L A N D & S C R U B		Semi-natural broadleaved woodland	 Coppiced broadleaved woodland
		Plantation broadleaved woodland	 Relict coppiced broadleaved woodland
		Plantation coniferous woodland	
		Mixed woodland	
		Dense-continuous scrub	
		Scattered scrub (NB: notate grassland type beneath)	
		Broadleaved Parkland/scattered trees (NB: notate grassland type beneath)	
		Coniferous Parkland/scattered trees (NB: notate grassland type beneath)	
		Mixed Parkland/scattered trees (NB: notate grassland type beneath)	
		Broadleaved recently felled woodland	
G R A S S L A N D		Unimproved acid grassland	 Path  Track/lane/road  Hedgerow  Ditch  Bank  Feature (annotate)  Stream  Fence
		Semi-improved acid grassland	
		Unimproved calcareous grassland	
		Semi-improved calcareous grassland	
		Unimproved neutral grassland	
		Semi-improved neutral grassland	
		Improved grassland	
		Marsh/marshy grassland	
		Species-poor semi-improved grassland	
	Tall herb and fen		
		Scattered bracken (NB: notate grassland type beneath)	
		Tall ruderal vegetation	
		Non-ruderal vegetation (fen, e.g. reed/sweetgrass dominant stands)	
WATER		Standing water	
		Running water	
C U L T I V A T E D		Arable land	
		Amenity grassland	 Urban
		Ephemeral/short (e.g. herbal pioneer communities/weedy species)	
		Perennial introduced shrub (eg snowberry, rhododendron, laurel, cotoneaster, bamboo etc)	

Images



Photo 1 – eastern grassland



Photo 2 – grassland NE by Cross Keys



Photo 3 – shaded heather stand



Photo 4 – northern UAG



Photo 5 – secondary woodland



Photo 6 – boundary hornbeam



Photo 7 – Shaded UAG plus Junipers



Photo 8 – acid grassland, heath, heather, fairways

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