Field Survey Form

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| **Local Hedgerow Field Survey Form** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PART A - ESSENTIAL ASSESSMENTS (To be completed for all local hedgerow surveys) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TITLE OF SURVEY: Weavely Solar Park – Western Hedgerow/Bridleway | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Grid Ref | | | | 100km | | | | | | Easting | | | | | | | | | | | | | | | | | | | | | | | | Northing | | | | | | | | | | | | | | | | | | | | | | 51 51’ 31’’ N  1 20’ 30’’ W | | | | | | | | | | | | | | | |
|  | | | | **Letters or numbers** | | | | | | **10km** | | | | | | | | | **1km** | | | **100m** | | | | **10m** | | | **1m** | | | | | **10km** | | | | | **1km** | | | | | **100m** | | | | | **10m** | | | | | **1m** | |
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| Date | 2 | 0 | 0 | | | 6 | | 2 | 0 | | 2 | | | | | | 4 | | | Hedgerow No | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Surveyor(s): Francis Gilio | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Side Surveyed - Both Y/N | | | | | | | | | | | | | | | | | | | | Y |
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| Side B | | | | | | N E S W | | | | | | | | | | | | | | |
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| WHOLE HEDGEROW | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 - NAME OF LANDOWNER/CONTACT DETAILS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Name: Blenheim Palace | | | | | | | | | | | | | | | | Address: Blenheim Palace,  Woodstock,  Oxfordshire,  OX20 1PP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Tel: | | | | | | | | | | | | | | | | | | | |
| 1a - Permission granted to enter details onto database YES/NO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | |
| 1b - Permission granted to publish ownership information (if relevant) YES/NO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | |
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| 2 - SURVEY TIMES AND WEATHER/OTHER CONDITIONS THAT MAY AFFECT THE SURVEY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2a – Start time:13.30pm | | | | | | | | | | | | | | | 2b - Finish time:15.00pm | | | | | | | | | | | | | | | | | | | | | | 2c - Weather: Fine - Sunny | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2d - Were there any difficulties in surveying the hedgerows? If so please describe. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | YES | | | | | | | | | NO | |
| Difficulty(ies): None | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 3 - HEDGEROW TYPE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3a - Shrubby hedgerow | | | | | | | | | | | |  | | | | | | | | 3b - Line of trees | | | | | | | | | | | | | | | | | |  | | | | 3c - Shrubby with line of trees | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | |
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| 4 - LENGTH (m) - between nodes or intersections with other hedgerows, to nearest 5m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 525m | | | | | | | | | |
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| 5 - CONNECTIONS - total number of other hedgerows connected to each end of the hedgerow | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | End 1 | | | | | | | | | End 2 | | | | | | | Total | | | | | | | | | |
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| 6 - EXTENT OF SURVEY | | | | | | | | | | | | | | | | | | 6a - Whole hedgerow | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | 6b - 30m Section(s) | | | | | | | | | | | | | | |  | | | | | | | | |
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| WHOLE HEDGEROW OR 30m SURVEY SECTION (Sections 7-16) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 7 - ADJACENT LAND USE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 7a - Arable | | | | | | | Arable crop | | | | | | | | | | | | | |  | | | |  | | | | | 7e - Road/Route | | | | | | | | | | | | | | | Major Road | | | | | | | | | | | | | | |  | | | | | | |  | | | | |
|  | | | | | | | Uncropped margin | | | | | | | | | | | | | |  | | | |  | | | | |  | | | | | | | | | | | | | | | Minor Road | | | | | | | | | | | | | | |  | | | | | | |  | | | | |
| 7b - Grass | | | | | | | Improved | | | | | | | | | | | | | |  | | | |  | | | | |  | | | | | | | | | | | | | | | Track (unsurfaced) | | | | | | | | | | | | | | |  | | | | | | |  | | | | |
|  | | | | | | | Semi-improved | | | | | | | | | | | | | |  | | | |  | | | | |  | | | | | | | | | | | | | | | Footpath | | | | | | | | | | | | | | |  | | | | | | | X | | | | |
|  | | | | | | | Unimproved | | | | | | | | | | | | | |  | | | | X | | | | |  | | | | | | | | | | | | | | | Rail | | | | | | | | | | | | | | |  | | | | | | |  | | | | |
| 7c - Woodland | | | | | | | Young | | | | | | | | | | | | | |  | | | |  | | | | |  | | | | | | | | | | | | | | | Canal | | | | | | | | | | | | | | |  | | | | | | |  | | | | |
|  | | | | | | | Semi-mature | | | | | | | | | | | | | |  | | | |  | | | | | 7f - Water | | | | | | | | | | | | | | | River | | | | | | | | | | | | | | |  | | | | | | |  | | | | |
|  | | | | | | | Mature | | | | | | | | | | | | | |  | | | |  | | | | |  | | | | | | | | | | | | | | | Stream | | | | | | | | | | | | | | |  | | | | | | |  | | | | |
| 7d - Other | | | | | | |  | | | | | | | | | | | | | |  | | | |  | | | | |  | | | | | | | | | | | | | | | Lake/pond | | | | | | | | | | | | | | |  | | | | | | |  | | | | |
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| 8 - ASSOCIATED FEATURES – See also Part B section 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 8a - Bank - Height (in metres) to nearest 25cm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | |  | | | | | | | 8f - Ditch - internal - Dry (tick) | | | | | | | | | | | | | | | | | | | | | | | |  |
| 8b - Average herb vegetation height (cm) to nearest 5cm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | 40cm | | | | | | | 8g - Ditch - internal - Wet (tick) | | | | | | | | | | | | | | | | | | | | | | | |  |
| 8c - Fence (tick) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | X | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | |  |
| 8d - Ditch - external - Dry (tick) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | |  | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | |  |
| 8e - Ditch - external - Wet (tick) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | |  | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | |  |
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| 9 - UNDISTURBED GROUND (measured from the centreline of the hedgerow) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Side A | | | | | | Side B | | | | | | | |
| 9a - Average width of undisturbed ground (m) to nearest 50cm\* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | |  | | | | | | | |
| 9b - Average width of perennial herbaceous vegetation (m) to nearest 50cm\* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | |  | | | | | | | |
| NB \* mark N/A or road etc if a road or built feature or hedge is adjacent to grassland or woodland | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 10 – NUTRIENT ENRICHMENT GROUND FLORA INDICATOR SPECIES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Estimate % cover of each species within a 2m wide band alongside the hedgerow (to nearest 5%) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10a – Nettles | | | | | Side A | | | | | | | | | Side B | | | | | | | | | 10b - Cleavers | | | | | | | | | | | | Side A | | | | | | | | Side B | | | | | | | 10c - Docks | | | | | | | | Side A | | | | | | | Side B | | | | | | |
|  | | | | |  | | | | | | | | | 35% | | | | | | | | |  | | | | | | | | | | | |  | | | | | | | | 30% | | | | | | |  | | | | | | | |  | | | | | | | 35% | | | | | | |
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| 11 - RECENTLY INTRODUCED, NON-NATIVE SPECIES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11a - RECENTLY INTRODUCED, NON-NATIVE GROUND FLORA SPECIES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Species | | | | | | | | | | | | | | | | | | | | | | | Side A | | | | | | Side B | | | | | | | | |
| % cover of introduced species in the hedge-bottom  (to nearest 5% or enter just the name if <5%) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | None | | | | | | | | | | | | | | | | | | | | | | |  | | | | | |  | | | | | | | | |
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| 11b - RECENTLY INTRODUCED, NON-NATIVE WOODY SPECIES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| % cover of introduced species in the shrub layer  (to nearest 5% or enter just the name if <5%) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | None | | | | | | | | | | | | | | | | | | | | | | |  | | | | | |  | | | | | | | | |
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| 12 - HEDGEROW SHAPE – See also Part B section 19a | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| What shape is the hedgerow? - Circle diagram of cross-section that most closely resembles hedgerow. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| a) Trimmed & dense | | | | | | | | | | | | | b) Intensively managed | | | | | | | | | | | | | | | | | | c) Untrimmed | | | | | | | | | | | | | | | | | | | | | | d) Tall & leggy | | | | | | | | | | | | | | | | | | |
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| e) Untrimmed, with outgrowth | | | | | | | | | | | | | f) Recently coppiced (facing view) | | | | | | | | | | | | | | | | | | g) Recently laid  (facing view) | | | | | | | | | | | | | | | | | | | | | | h) Other - Sketch | | | | | | | | | | | | | | | | | | |
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| 13 - DIMENSIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13a - Average Height (m)  Excluding bank, to nearest 25cm | | | | | | | | | | | | | | | | | | | | | | | | 10m | | | | 13b - Average Width (m)  At the widest point of canopy; excluding bank, to nearest 25cm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 12m | | | | | | | | |
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| 14 - INTEGRITY - Continuity and height of canopy along hedgerow | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14a - % GAPS - percentage gaps, to nearest 5% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 5% | | | | | | | | |
| 14b - Any gaps >5m? (Y/N) | | | | | | | | | | | | | | | | | | | | | | | |  | | | | 14c - Average height of base of canopy (m) to nearest 25cm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 50cm | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 - ISOLATED HEDGEROW TREES – See also Part B section 21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Use one row per specimen or one row and a number if there are many individuals of the same species in the same size class. Estimate DBH to nearest 5cm or nearest 1cm if DBH less than 5cm. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Species | | | | | | | | | | | | | | | | | | | | | | | | | | | DBH (cm) | | | | | | Species | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | DBH (cm) | | |
| Ash x10 | | | | | | | | | | | | | | | | | | | | | | | | | | | 20cm | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | |
| Field Maple x10 | | | | | | | | | | | | | | | | | | | | | | | | | | | 15cm | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | |
| Ash (Mature) | | | | | | | | | | | | | | | | | | | | | | | | | | | 1m | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | |
| Crab Apple | | | | | | | | | | | | | | | | | | | | | | | | | | | 20cm | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | |
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| 16 – NOTES – Whole hedgerow or 30m survey section | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16a - Fauna (evidence of) Rabbits, Small Mammals, Badgers | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 16b - Features (including evidence of recent planting) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Overhead utilities traverse centre of hedgerow | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 16c - Photograph numbers (and locate on map) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 30m SURVEY SECTION ONLY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 17 – Whole Hedgerow Survey – Add any others, including non-natives. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Species | | | | | | | | | | | | | | | | | | | | | | | | Shrubs  % cover | | | | Trees  No. | | | | | | Species | | | | | | | | | | | | | | | | | | | | | | | | | Shrubs  % cover | | | | | | | | | Trees  No. | | | |
| Alder, common (*Alnus* *glutinosa*) | | | | | | | | | | | | | | | | | | | | | | | |  | | | |  | | | | | | Plum, wild (*Prunus* *domestica*) | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | |  | | | |
| Apple, crab (*Malus* *sylvestris*) | | | | | | | | | | | | | | | | | | | | | | | |  | | | | 1 | | | | | | Poplar, black (*Populus* *nigra* *betulifolia*) | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | |  | | | |
| Ash (*Fraxinus* *excelsior*) | | | | | | | | | | | | | | | | | | | | | | | |  | | | |  | | | | | | Privet, wild (*Ligustrum* *vulgare*) | | | | | | | | | | | | | | | | | | | | | | | | | 5% | | | | | | | | |  | | | |
| Aspen (*Populus* *tremula*) | | | | | | | | | | | | | | | | | | | | | | | |  | | | |  | | | | | | Rose, dog- (*Rosa* *canina*) | | | | | | | | | | | | | | | | | | | | | | | | | 1% | | | | | | | | |  | | | |
| Beech (*Fagus* *sylvatica*) | | | | | | | | | | | | | | | | | | | | | | | |  | | | |  | | | | | | Rose, field- (*Rosa* *arvensis*) | | | | | | | | | | | | | | | | | | | | | | | | | 1% | | | | | | | | |  | | | |
| Birch, downy (*Betula* *pubescens*) | | | | | | | | | | | | | | | | | | | | | | | |  | | | |  | | | | | | Rose (*Rosa* sp.) | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | |  | | | |
| Birch, silver (*Betula* *pendula*) | | | | | | | | | | | | | | | | | | | | | | | |  | | | |  | | | | | | Rowan (*Sorbus* *aucuparia*) | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | |  | | | |
| Blackthorn (*Prunus* *spinosa*) | | | | | | | | | | | | | | | | | | | | | | | | 15% | | | |  | | | | | | Spindle (*Euonymus* *europaeus*) | | | | | | | | | | | | | | | | | | | | | | | | | 1% | | | | | | | | |  | | | |
| Broom (*Cytisus* *scoparius*) | | | | | | | | | | | | | | | | | | | | | | | |  | | | |  | | | | | | Sycamore (*Acer* *pseudoplatanus*) | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | |  | | | |
| Buckthorn (*Rhamnus* *cathartica*) | | | | | | | | | | | | | | | | | | | | | | | |  | | | |  | | | | | | Wayfaring-tree (*Viburnum* *lantana*) | | | | | | | | | | | | | | | | | | | | | | | | | 2% | | | | | | | | |  | | | |
| Cherry, wild (*Prunus* *avium*) | | | | | | | | | | | | | | | | | | | | | | | |  | | | |  | | | | | | Willow, grey (*Salix* *cinerea*) | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | |  | | | |
| Dogwood (*Cornus* *sanguinea*) | | | | | | | | | | | | | | | | | | | | | | | |  | | | |  | | | | | | Willow, goat (*Salix* *caprea*) | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | |  | | | |
| Elder (*Sambucus* *nigra*) | | | | | | | | | | | | | | | | | | | | | | | | 10% | | | |  | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | |  | | | |
| Elm, English (*Ulmus* *procera*) | | | | | | | | | | | | | | | | | | | | | | | | 10% | | | |  | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | |  | | | |
| Elm, wych (*Ulmus* *glabra*) | | | | | | | | | | | | | | | | | | | | | | | |  | | | |  | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | |  | | | |
| Elm, (*Ulmus* sp.) | | | | | | | | | | | | | | | | | | | | | | | |  | | | |  | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | |  | | | |
| Gorse (*Ulex* *europaeus*) | | | | | | | | | | | | | | | | | | | | | | | |  | | | |  | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | |  | | | |
| Gorse, western (*Ulex* *gallii*) | | | | | | | | | | | | | | | | | | | | | | | |  | | | |  | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | |  | | | |
| Guelder rose (*Viburnum* *opulus*) | | | | | | | | | | | | | | | | | | | | | | | |  | | | |  | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | |  | | | |
| Hawthorn (*Crataegus* sp.) | | | | | | | | | | | | | | | | | | | | | | | | 10% | | | |  | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | |  | | | |
| Hazel (*Corylus* *avellana*) | | | | | | | | | | | | | | | | | | | | | | | | 10% | | | |  | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | |  | | | |
| Holly (*Ilex* *aquifolium*) | | | | | | | | | | | | | | | | | | | | | | | |  | | | |  | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | |  | | | |
| Hornbeam (*Carpinus* *betulus*) | | | | | | | | | | | | | | | | | | | | | | | |  | | | |  | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | |  | | | |
| Lime, large-leaved (*Tilia* *platyphyllos*) | | | | | | | | | | | | | | | | | | | | | | | |  | | | |  | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | |  | | | |
| Lime, small-leaved (*Tilia* *cordata*) | | | | | | | | | | | | | | | | | | | | | | | |  | | | |  | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | |  | | | |
| Maple, field (*Acer* *campestre*) | | | | | | | | | | | | | | | | | | | | | | | | 35% | | | |  | | | | | | Bramble (*Rubus* *fruticosus* agg.) | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | |  | | | |
| Oak, pedunculate (*Quercus* *robur*) | | | | | | | | | | | | | | | | | | | | | | | |  | | | |  | | | | | | Honeysuckle (*Lonicera* *periclymenum*) | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | |  | | | |
| Oak, sessile (*Quercus* *petraea*) | | | | | | | | | | | | | | | | | | | | | | | |  | | | | 2 | | | | | | Ivy (*Hedera* *helix*) | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | |  | | | |
| Pear (*Pyrus* *communis* sensu lato) | | | | | | | | | | | | | | | | | | | | | | | |  | | | |  | | | | | | Traveller's-joy (*Clematis* *vitalba*) | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | |  | | | |
| Pine, Scots (*Pinus* sylvestris) | | | | | | | | | | | | | | | | | | | | | | | |  | | | |  | | | | | | % Gaps/access openings | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | |  | | | |

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| **Local Hedgerow Field Survey Form** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PART B - OPTIONAL ASSESSMENTS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 - ASSOCIATED FEATURES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18a – Banks | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Typical cross section of hedgerow-banks where present (please circle one) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| a) Half-bank | | | | | b) Full hedge-bank | | | | | | | | | | | | | | c) Other (sketch) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bank type and management | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | Bank type | | | | | | | | | | | | | | | Bank Management | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | Stone | | | | | Earth | | | | | | | | | | None | | | | | | | | | | | Fenced off | | | | | | | | Grazed | | | | | | | | | Mown/cut | | | | | | | | | |
| Side A | | |  | | | | |  | | | | | | | | | |  | | | | | | | | | | |  | | | | | | | |  | | | | | | | | |  | | | | | | | | | |
| Side B\* | | |  | | | | |  | | | | | | | | | |  | | | | | | | | | | |  | | | | | | | |  | | | | | | | | |  | | | | | | | | | |
| 18b - Ditches/Streams | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Side A | | | | | | | Side B\* | | | | | |
| Ditch/stream - Width at base (m) to the nearest 25cm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | |  | | | | | |
| 18c - Walls and Fences | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fence | | | | | | | | | | Side A | | | | | | | Side B\* | | | | | | | | | Dry-stone Wall - Condition | | | | | | | | | | | | | | | | | Side A | | | | | | | | Side B\* | | | | |
| Height (m), to nearest 25cm | | | | | | | | | |  | | | | | | | 1m | | | | | | | | | Good | | | | | | | | | | | | | | | | |  | | | | | | | |  | | | | |
| Type | | | | | | | | | | Side A | | | | | | | Side B\* | | | | | | | | | Poor | | | | | | | | | | | | | | | | |  | | | | | | | |  | | | | |
| Post & rail | | | | | | | | | |  | | | | | | |  | | | | | | | | | Remnant | | | | | | | | | | | | | | | | |  | | | | | | | |  | | | | |
| Post & netting | | | | | | | | | |  | | | | | | | X | | | | | | | | | Other feature - State | | | | | | | | | | | | | | | | | Side A | | | | | | | | Side B\* | | | | |
| Post & wire | | | | | | | | | |  | | | | | | |  | | | | | | | | |  | | | | | | | | | | | | | | | | |  | | | | | | | |  | | | | |
| Other fence - state | | | | | | | | | | Side A | | | | | | | Side B\* | | | | | | | | |  | | | | | | | | | | | | | | | | |  | | | | | | | |  | | | | |
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| \* Where visible | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 19 - HEDGEROW/MARGIN MANAGEMENT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19a - Hedgerow Management | | | | | | | | | | | | | | | | | | | | | Flailed/ trimmed | | | | | | | Coppiced | | | | | | Laid | | | | Planting/ Gapping | | | | | Pollarding trees | | | | | | | | | None | | | |
| Signs of Recent Management <2 years | | | | | | | | | | | | | | | | | | | | | X | | | | | | |  | | | | | |  | | | |  | | | | |  | | | | | | | | |  | | | |
| Signs of Management 2-10 years | | | | | | | | | | | | | | | | | | | | | X | | | | | | |  | | | | | |  | | | |  | | | | |  | | | | | | | | |  | | | |
| Signs of older Management >10 years | | | | | | | | | | | | | | | | | | | | |  | | | | | | | X | | | | | |  | | | |  | | | | |  | | | | | | | | |  | | | |
| 19b - Hedge-bottom Management | | | | | | | | | | | | | | | | | | | | | Mowing/cutting | | | | | | | | | | | Herbicides | | | | | Cultivation | | | | | Grazing | | | | | | | | | | None | | | |
| Signs of Recent Management <2 years | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | |  | | | | |  | | | | |  | | | | | | | | | |  | | | |
| Signs of Management 2-10 years | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | |  | | | | |  | | | | |  | | | | | | | | | |  | | | |
| 19c - Margin/Headland Management | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Average width (m) | | | | | | | Side A | | | | |  | | | | | | | | Side B\* | | | | | | | 40cm | | | | | |  | | | | | | | | | | | | | | | | | | | | | | |
| Margin Management | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Grazed | | | | Side A | | | Side B\* | | | | | | Cut | | | | | | | | | | Side A | | | | | | | | Side B\* | | | | Unmanaged | | | | | | | | | | Side A | | | | | | | Side B\* | | | |
|  | | | |  | | |  | | | | | |  | | | | | | | | | |  | | | | | | | |  | | | |  | | | | | | | | | |  | | | | | | | X | | | |
| \* Where visible | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 - GROUND FLORA SPECIES PER 30M | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Species | | | | | | | | | | | | | | % cover | | | | | | | | | | | Species | | | | | | | | | | | | | | | | | | | | | | | % cover | | | | | | | |
|  | | | | | | | | | | | | | | Q1 | | | | | | | | Q2 | | |  | | | | | | | | | | | | | | | | | | | | | | | Q1 | | | | | | Q2 | |
| *Agrostis* sp. Bent | | | | | | | | | | | | | |  | | | | | | | |  | | | *Plantago lanceolata* - Ribwort plantain | | | | | | | | | | | | | | | | | | | | | | |  | | | | | |  | |
| *Alopecurus pratensis* - Meadow foxtail | | | | | | | | | | | | | |  | | | | | | | |  | | | *Plantago major* - Greater plantain | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | 5% | |
| *Anthoxanthum odoratum* - Sweet vernal-grass | | | | | | | | | | | | | |  | | | | | | | |  | | | *Potentilla reptans* - Creeping cinquefoil | | | | | | | | | | | | | | | | | | | | | | |  | | | | | |  | |
| *Arrhenatherum elatius* - False oat-grass | | | | | | | | | | | | | |  | | | | | | | |  | | | *Primula vulgaris* - Primrose | | | | | | | | | | | | | | | | | | | | | | |  | | | | | |  | |
| *Cynosurus cristatus* - Crested dog’s-tail | | | | | | | | | | | | | |  | | | | | | | |  | | | *Pteridium aquilinum* - Bracken | | | | | | | | | | | | | | | | | | | | | | | 20% | | | | | |  | |
| *Dactylis glomerata* - Cocksfoot | | | | | | | | | | | | | |  | | | | | | | |  | | | *Ranunculus repens* - Creeping buttercup | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | 5% | |
| *Elytrigia repens* - Couch | | | | | | | | | | | | | |  | | | | | | | |  | | | *Rubus fruticosus -* Bramble | | | | | | | | | | | | | | | | | | | | | | |  | | | | | |  | |
| *Festuca rubra* - Red fescue | | | | | | | | | | | | | |  | | | | | | | |  | | | *Rumex* sp. - Docks | | | | | | | | | | | | | | | | | | | | | | |  | | | | | |  | |
| *Holcus lanatus* - Yorkshire fog | | | | | | | | | | | | | |  | | | | | | | |  | | | *Senecio jacobaea* - Ragwort | | | | | | | | | | | | | | | | | | | | | | |  | | | | | |  | |
| *Holcus mollis* - Creeping soft-grass | | | | | | | | | | | | | |  | | | | | | | |  | | | *Silene dioica* - Red Campion | | | | | | | | | | | | | | | | | | | | | | |  | | | | | |  | |
| *Lolium perenne* - Perennial rye-grass | | | | | | | | | | | | | |  | | | | | | | |  | | | *Stellaria holostea* - Greater stitchwort | | | | | | | | | | | | | | | | | | | | | | |  | | | | | |  | |
| *Phleum pratense* - Timothy | | | | | | | | | | | | | |  | | | | | | | |  | | | *Trifolium pratense* - Red clover | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | 15% | |
| *Poa annua* - Annual meadow-grass | | | | | | | | | | | | | | 15% | | | | | | | | 10% | | | *Trifolium repens* - White clover | | | | | | | | | | | | | | | | | | | | | | |  | | | | | |  | |
| *Poa trivialis* - Rough meadow-grass | | | | | | | | | | | | | | 10% | | | | | | | | 15% | | | *Urtica dioica* - Common nettle | | | | | | | | | | | | | | | | | | | | | | |  | | | | | |  | |
|  | | | | | | | | | | | | | |  | | | | | | | |  | | | *Veronica chamaedrys –* Ivy-leaved speedwell | | | | | | | | | | | | | | | | | | | | | | |  | | | | | |  | |
|  | | | | | | | | | | | | | |  | | | | | | | |  | | | *Viola* sp. - Violet | | | | | | | | | | | | | | | | | | | | | | |  | | | | | |  | |
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| *Achillea millefolium* - Yarrow | | | | | | | | | | | | | |  | | | | | | | |  | | |  | | | | | | | | | | | | | | | | | | | | | | |  | | | | | |  | |
| *Alliaria petiolata* - Garlic mustard | | | | | | | | | | | | | |  | | | | | | | |  | | |  | | | | | | | | | | | | | | | | | | | | | | |  | | | | | |  | |
| *Anemone nemorosa* - Wood anemone | | | | | | | | | | | | | |  | | | | | | | |  | | |  | | | | | | | | | | | | | | | | | | | | | | |  | | | | | |  | |
| *Anthriscus sylvestris* - Cow parsley | | | | | | | | | | | | | |  | | | | | | | | 30% | | |  | | | | | | | | | | | | | | | | | | | | | | |  | | | | | |  | |
| *Arum maculatum* - Lords-and-ladies | | | | | | | | | | | | | |  | | | | | | | |  | | |  | | | | | | | | | | | | | | | | | | | | | | |  | | | | | |  | |
| *Centaurea nigra* - Common knapweed | | | | | | | | | | | | | |  | | | | | | | |  | | |  | | | | | | | | | | | | | | | | | | | | | | |  | | | | | |  | |
| *Cirsium arvense* - Creeping thistle | | | | | | | | | | | | | |  | | | | | | | |  | | |  | | | | | | | | | | | | | | | | | | | | | | |  | | | | | |  | |
| *Cirsium vulgare* - Spear thistle | | | | | | | | | | | | | |  | | | | | | | |  | | |  | | | | | | | | | | | | | | | | | | | | | | |  | | | | | |  | |
| *Galium aparine* - Cleavers | | | | | | | | | | | | | |  | | | | | | | |  | | |  | | | | | | | | | | | | | | | | | | | | | | |  | | | | | |  | |
| *Galium mollugo* - Hedge bedstraw | | | | | | | | | | | | | |  | | | | | | | |  | | |  | | | | | | | | | | | | | | | | | | | | | | |  | | | | | |  | |
| *Geranium dissectum* - Cut-leaved cranesbill | | | | | | | | | | | | | |  | | | | | | | |  | | |  | | | | | | | | | | | | | | | | | | | | | | |  | | | | | |  | |
| *Geranium molle* - Dove’s-Foot cranesbill | | | | | | | | | | | | | |  | | | | | | | |  | | |  | | | | | | | | | | | | | | | | | | | | | | |  | | | | | |  | |
| *Geranium robertianum* - Herb-Robert | | | | | | | | | | | | | |  | | | | | | | |  | | |  | | | | | | | | | | | | | | | | | | | | | | |  | | | | | |  | |
| *Glechoma hederacea* - Ground ivy | | | | | | | | | | | | | | 45% | | | | | | | |  | | | Bryophytes - mosses & liverworts | | | | | | | | | | | | | | | | | | | | | | |  | | | | | |  | |
| Hedera helix - Ivy | | | | | | | | | | | | | | 10% | | | | | | | |  | | | **Bare ground** | | | | | | | | | | | | | | | | | | | | | | |  | | | | | |  | |
| *Heracleum sphondylium* - Hogweed | | | | | | | | | | | | | |  | | | | | | | | 20% | | | Location of quadrats | | | | | | | | | | | | | | | | | | | | | | |  | | | | | |  | |
| *Hyacinthoides non-scripta* - Bluebell | | | | | | | | | | | | | |  | | | | | | | |  | | | Under canopy | | | | | | | | | | | | | | | | | | | | | | | X | | | | | |  | |
| *Mercurialis perennis* - Dog’s mercury | | | | | | | | | | | | | |  | | | | | | | |  | | | Bank | | | | | | | | | | | | | | | | | | | | | | |  | | | | | |  | |
| Record all ground flora species within each of the two 2 x 1m quadrats and estimate percentage cover to the nearest 5%. | | | | | | | | | | | | | |  | | | | | | | |  | | | Verge | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | X | |
|  | | | | | | | | | | | | | |  | | | | | | | |  | | | Field edge | | | | | | | | | | | | | | | | | | | | | | |  | | | | | |  | |
| 21 - VETERAN TREE FEATURES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| To be recorded on any tree of 1 metre DBH and over, or any tree smaller if in the truly ancient class for that species | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Species | | Quercus Robur | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Surveyor | | Francis Gilio | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Grid Ref | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Hedgerow reference | | | | | | | | | | | | 3 | | | | | | |
|  | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Date | | | 2 | | | | 0 | | | 0 | | 6 | | | | 2 | | 4 |
|  | | 100km | | | | Easting | | | | | | | | | | | | | | | | | | Northing | | | | | | | | | | | | | | | | | 51 51’ 20’’ N  1 20’’ 29 W | | | | | | | | | | | | | | |
|  | | **Letters or numbers** | | | | **10km** | | | **1km** | | **100m** | | | | **10m** | | | | | | **1m** | | | **10km** | | | | | | **1km** | | | **100m** | | | **10m** | | | **1m** | |
|  | |  | | | |  | | |  | |  | | | |  | | | | | |  | | |  | | | | | |  | | |  | | |  | | |  | |
| Diameter at Breast Height (1.3m) in metres  (To nearest 5cm) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1.58m | | | | | | | | | | |
| Form | Maiden X | | | | | | Pollard | | | | | | | | | Coppice | | | | | | | | | | | | | | Other: | | | | | | | | | | | | | | | | | | | | | | | | | |
| Condition; Good | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Percentage of live canopy (To nearest 5%) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 55% | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Tick | | | | | | |
| Dead wood attached to the tree, any piece more than 1m long and 8cm in diameter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | |
| Loose, split, missing and dead bark, any piece more than 30cm x 30cm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | |
| Bark sap runs | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | |
| Tears, splits, scars, lightning strikes more than 30cm long | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | |
| Hollow trunks or hollow major limbs | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | |
| Major rot sites, any more than 15cm across | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | |
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| Notes - e.g. photograph numbers, threats, landscape/social importance, bracket fungi, mosses, lichens, nest holes etc. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Laetiporus Sulphureus Shelf (Old Fruiting Bodies) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Barnacle Lichen up to 2.5m on main stem | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Squirrel drey | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Ivy encroaching up main stem | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 21 - VETERAN TREE FEATURES | | | | | | | | | | | | | | | | | | | | | | |
| To be recorded on any tree of 1 metre DBH and over, or any tree smaller if in the truly ancient class for that species | | | | | | | | | | | | | | | | | | | | | | |
| Species | | Quercus Robur | | | | | | | | | | | | | | | | | | | | |
| Surveyor | | Francis Gilio | | | | | | | | | | | | | | | | | | | | |
| Grid Ref | |  | | | | | | | | | | | | Hedgerow reference | | | | | | 3 | | |
|  | |  | | | | | | | | | | | | Date | | 2 | | 0 | 0 | 6 | 2 | 4 |
|  | | 100km | Easting | | | | | | | Northing | | | | | | | 51 51’ 33’’ N  1 20’ 31’’ W | | | | | |
|  | | **Letters or numbers** | **10km** | | **1km** | **100m** | **10m** | | **1m** | **10km** | **1km** | **100m** | **10m** | | **1m** | |
|  | |  |  | |  |  |  | |  |  |  |  |  | |  | |
| Diameter at Breast Height (1.3m) in metres  (To nearest 5cm) | | | | | | | | | | | Stem 1 - 0.9m  Stem 2 – 0.9m | | | | | |
| Form | Maiden | | | Pollard | | | | Coppice X | | | Other: | | | | | | | | | | | |
| Condition; Good | | | | | | | | | | | | | | | | | | | | | | |
| Percentage of live canopy (To nearest 5%) | | | | | | | | | | | | | | | | | | | | 75% | | |
|  | | | | | | | | | | | | | | | | | | | | Tick | | |
| Dead wood attached to the tree, any piece more than 1m long and 8cm in diameter | | | | | | | | | | | | | | | | | | | | X | | |
| Loose, split, missing and dead bark, any piece more than 30cm x 30cm | | | | | | | | | | | | | | | | | | | |  | | |
| Bark sap runs | | | | | | | | | | | | | | | | | | | |  | | |
| Tears, splits, scars, lightning strikes more than 30cm long | | | | | | | | | | | | | | | | | | | | X | | |
| Hollow trunks or hollow major limbs | | | | | | | | | | | | | | | | | | | |  | | |
| Major rot sites, any more than 15cm across | | | | | | | | | | | | | | | | | | | |  | | |
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| Notes - e.g. photograph numbers, threats, landscape/social importance, bracket fungi, mosses, lichens, nest holes etc. | | | | | | | | | | | | | | | | | | | | | | |
| Woodpecker holes in mid canopy | | | | | | | | | | | | | | | | | | | | | | |
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| Small decay cavities in mid canopy | | | | | | | | | | | | | | | | | | | | | | |
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