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NORTH-WEST BICESTER—



-TREE SURVEY TO BS5837:2012



- PRELIMINARY RECOMMENDATIONS FOR TREE RETENTION

Prepared for: Firethorn Bicester Ltd

FLAC Instruction ref: CC40-1025

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KEY TO TREE SURVEY DATA SCHEDULE

<u>Note</u>

This survey has been undertaken in compliance with BS5837:2012; it is not intended to be a tree safety survey. Any notes offered on structural integrity of trees are incidental, though where trees are considered to be in immediately hazardous condition (identified by red font in the *Structural condition & Notes* column, see below), our recommendations given for immediate intervention should be put in hand by the owner / site manager as soon as can be arranged.

Trees are dynamic living organisms capable of achieving considerable size and structural complexity. They are exposed to and can become damaged by the elements and by human activity, and have co-evolved with decay-causing organisms that can degrade and sometimes destroy their structural integrity. Due to genetic characteristics and local microenvironmental factors this integrity can be innately uncertain. The laws and forces of nature dictate a natural failure rate even among trees that are healthy and structurally sound. By their very nature, therefore, trees cannot be considered entirely hazard-free.

Tree surveys and / or tree inspections are, inherently, only a snapshot in time of the physiological and structural condition of the trees concerned.

Unless otherwise stated in our reporting material, all such surveys and inspections are undertaken from ground level and no internal inspections or tests have been undertaken. Any structural defects present might be not be visible, for example being masked by vegetation, whether the tree's foliage, plants growing round the base of the tree, or climbing plants growing on the stem and into the crown.

Unless otherwise states, the survey data should be considered time-limited **for planning purposes** to a maximum of three years (absent revisions of BS5837, which render pre-existing data obsolete).

FLAC Ref. No.

Tree numbers per relevant FLAC dwg

In line with the advice of BS5837:2012, where trees occur as a cohesive group feature (prefixed TG for tree group or WG for woodland group), they are assessed as such

Size data for TG or WG are given as mean figures for trees at roughly the 80 percentile of the population concerned. Trees in the 90-100 percentile range for the group are identified on the TSP

Trees within TG / WG boundaries that have more than one stem and which are sub-dominant within the TG / WG (i.e. <80 percentile) are subsumed within the TG / WG data; dominant multi-stemmed trees (i.e. >80 percentile) within TG / WG boundaries are listed as individual trees

TG / WG outlines follow the mapping base (typically either topographical survey or geo-rectified aerial imagery)

Hedges (domestic) are recorded prefixed H and are always excluded from the provisions of the Hedgerows Regulations 1997

Hedgerows (rural) are recorded prefixed HR and possibly fall within the provisions of the Hedgerows Regulations 1997

All numbering starts from x001 for each type of vegetation, where x identifies the surveyor (9000 series = JFL). Thus:

9000 Individual tree
TG9000 Tree group
WG9000 Woodland group
H9000 Domestic hedge
HR9000 Rural hedgerow

The addition of the FLAC instruction ref. ahead of the tree number provides a unique, non-repeated reference number for the particular tree in question

Any trees omitted from the topo survey are listed on the referenced plan, though their positions are only shown indicatively. Off-site trees are included where deemed relevant, though their positions are also shown indicatively if omitted from the topo base

TPO Ref.

Statutory protection listing for individual trees, TG and WG

ATTENTION: SEE NOTE IMMEDIATELY BELOW

Note

This column is only completed in cases where FLAC has been instructed to undertake a TPO search and correlation to FLAC reference numbers. The absence of data in this column <u>must not</u> be taken to indicate that the trees concerned are not under TPO protection. Statutory protection may also arise from the trees' location within a Conservation Area. Further statutory control over tree removal may be conferred by the Forestry Act 1967

Species

Tree species as listed in the schedule by common name. Species present are:

Common name	Botanical name	Provenance	Notes
Alder	Alnus glutinosa	Native	
Apple	Malus domestica	Native	
Ash	Fraxinus excelsior	Native	
Aspen	Populus tremula	Exotic	
Beech	Fagus sylvatica	Native	
Blackthorn	Prunus spinosa	Native	
Common lime	Tilia x europaea	Native	
Crack willow	Salix fragilis	Native	
Cypress	Cupressus sp.	Exotic	
Elder	Sambucus nigra	Native	
Elm	Ulmus procera	Native	
Field maple	Acer campestre	Native	
Gean	Prunus avium	Native	
Goat willow	Salix caprea	Native	
Grey poplar	Populus x canescens	Exotic	
Hawthorn	Crataegus monogyna	Native	
Hazel	Corylus avellana	Native	
Hornbeam	Carpinus betulus	Native	
Horse chestnut	Aesculus hippocastanum	Naturalised	
Norway maple	Acer platanoides	Exotic	
Paperbark birch	Betula papyrifera	Exotic	
Pear	Pyrus communis	Native	
Pedunculate oak	Quercus robur	Native	
Rowan	Sorbus aucuparia	Native	
Scots pine	Pinus sylvestris	Native	
Sycamore	Acer pseudoplatanus	Naturalised	

Tree Count

For trees assessed as groups (ident. prefix TG), number of trees present, according to:

2-10 trees Accurate count 11-50 trees Close estimate 51-100 trees Estimate

Area m²

For trees assessed as woodland (ident. prefix WG), existing area in square metres within survey envelope, derived from CAD interrogation of the completed tree survey plan

Ht. (m)

Tree height in metres

Either:

Crown Spread

For individual trees, measured radial crown spread in metres, listed for each of the four cardinal points

Or:

MRCS

For trees assessed as groups or woodland, an estimated mean radial crown spread in metres for trees at the 80 percentile size

Note

For trees assessed as woodland, sample measurements for canopy overhang beyond woodland boundary (i.e. hedgerow, fence, ditch etc.) are given on the tree survey plan

Or:

Mean Width

Mean width in metres of hedge or hedgerow

Length

Approximate length in metres of hedge or hedgerow

Ht. 1st Br.

For individual trees and trees assessed as groups or woodland, height in metres above ground of attachment point of first significant branch (cardinal point may be given indicating growing direction)

Ht. Can.

For individual trees and trees assessed as groups or woodland, mean height in metres of lower extent of tree canopy above ground

Stem Count

For individual trees, number of stems present below 1.5m AGL. Stem count affects diameter entry as follows:

Where the stem count is 1 the diameter should be entered into the 1 column under Stem Dia.

Where the stem count is up to 5 each stem dia. should be listed

Where the stem count exceeds 5, the mean stem diameter should be entered in the 1 column

Either:

Stem Dia. (mm)

Stem diameter(s) at 1.5m above ground level (see measurement system in BS5837:2012 Annex C), given in millimetres

Where entered 1:

Single measured stem diameter

Where entered 2-5:

Multiple measured stem diameters, listed per stem

Where entered >5:

For trees with more than five stems, diameter is listed as an estimated mean

Where the diameter entry for trees with 1 or 2-5 stems appears in italics, this indicates that it was estimated by the surveyor (for example, due to the presence of ivy on the stem)

It is our practice to round up when estimating stem diameters

Or:

Specimen Stem Dia.

For trees assessed as groups or woodland, stem diameter in millimetres at 1.5m above ground level for 80 percentile member of TG or WG. Trees with larger diameters are identified on the TSP

Or:

Mean Stem Dia.

Mean stem diameter in millimetres above the basal flare of hedge or hedgerow component plants

Either:

RPA Rad.

Radius in metres of the notionally circular Root Protection Area, based on 12x stem diameter (example for single stemmed trees), capped to 15m radial to stem centre

Note

Where trees are identified as being *notable* (i.e. very large trees that have yet to attain veteran status), FLAC removes the cap such that the RPA is simply 12x stem diameter

Or:

Specimen RPA Rad.

For trees assessed as groups or woodland, radius in metres of the notionally circular Root Protection Area based on specimen diameter for TG or WG 80 percentile tree

Either:

Conversion of RPA radius to an area, given in m², capped to a maximum of 707m² (in line with BS5837:2012), except for *notable* trees

Or:

Specimen RPA Area

For trees assessed as groups or woodland, conversion of specimen RPA radius to an area, given in m², capped to a maximum of 707m²

Note

RPA for hedges or hedgerows is to be taken as 3m from the centreline, half the height or 2m beyond existing width, whichever is the greater

Life Stage

Life stage assessment according into:

Y Young SM Semi-mature EM Early mature

M Mature OM Over-mature

Phys. Condition

An assessment of the physiological condition (i.e. health/vitality) status of the tree summarised according to:

GOOD Generally in healthy condition

FAIR Condition satisfactory though below mean species performance

POOR Tree in decline/retrenching

DEAD Self explanatory

Structural condition & Notes

Notes on the apparent structural integrity of the tree based on visual tree assessment, including notes on form, taper, forking habit, storm damage, decay fungi, pests, etc. plus other pertinent observations

Management recommendations

Preliminary recommendations for intervention (e.g. tree surgery, felling, etc) in relation to existing context

Trees assessed as being in apparently immediately hazardous condition will be notified to the client separately as soon as practical. Where the recommendation is for further investigation, including removal of ivy and reinspection, the given retention span and quality/value grade (see below) should be treated as provisional

Notes

This is **not** intended to comprise a specification for tree work: further advice should be sought prior to implementation

Change in land use (target value) requires further assessment

Ret. Span

Estimated remaining retention span based on species, condition & context divided into the following bands (relates to quality and value grade achievable as stated):

Years	Best QV grade
<10	U
10+	С
20+	В
>40	Α

QV Grade

Quality & Value grade classification according to BS5837:2012 (see attached extract from BS5837:2012 'Table 1 - Cascade Chart for Tree Quality Assessment') –

Grade	Summary meaning	Ident. colour spot on TSP
U	Trees that are unretainable in viable condition	Dark red
Α	High quality & value and consequent high retention priority	Light green
В	Moderate quality and value (moderate priority for retention)	Mid-blue
С	Low quality and value (generally considered to be sacrificial)	Grey

Note

Trees present which we consider to be exceptional specimens are identified by the suffix * after the A grade, e.g. A1*

Proposal

This column identifies:

- 1. Pre-planning (Arboricultural Stages 1, Tree Survey, & 2, Design): Our initial view of a defensible tree retention / removal balance
- Planning submission (Arboricultural Stage 3):
 The actual tree retention / removal balance as proposed

The following codes are used:

RET 1. Trees preferably retained

2. Trees that would be retained

PRET For tree groups (TG), woodlands (WG) & hedgerows (HR) – signifies partial retention (see below)

REM 1. Trees defensibly removed to facilitate development

2. Trees that would be removed

U Trees identified to be unsuitable for retention

No. of trees retained

For tree groups only

Number of trees retained out of the total recorded for the group. Outcomes are as follows:

Survey grade U Number of trees for retention defaults to 0 (can be amended by manual override)

Proposal code RET Number of trees for retention defaults to total from *Tree Count* data field

Proposal code PRET No. of trees for retention requires manual input following interrogation of relevant plans

Proposal code REM Number of trees for retention defaults to 0

Trees retained %

For tree groups only

Percentage of pre-existing TG tree count that would be retained, based on an auto-sum derived from inputs into the preceding column

Area retained m²

For woodlands only

Area, in square metres, of woodland (WG) proposed for retention. Outcomes are as follows:

Survey grade U Area for retention defaults to 0 (can be amended by manual override)

Proposal code RET Area for retention defaults to existing area

Proposal code PRET Area for retention requires manual input following interrogation of relevant plans

Proposal code REM Area for retention defaults to 0

Area retained %

For woodlands only

Percentage of pre-existing WG area that would be retained, based on an auto-sum derived from inputs into the preceding column

Length retained m

For hedgerows only

Length, in metres, of hedgerow (HR) proposed for retention. Outcomes are as follows:

Survey grade U Length for retention defaults to 0 (can be amended by manual override)

Proposal code RET Length for retention defaults to existing length

Proposal code PRET Length for retention requires manual input following interrogation of relevant plans

Proposal code REM Length for retention defaults to 0

Length retained %

For hedgerows only

Percentage of pre-existing HR length that would be retained, based on an auto-sum derived from inputs into the preceding column

Category and definition	Criteria (including subcategories where appropriate	e)		Identification on plan						
Trees unsuitable for retention (see Not	e)									
Category U Those in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years										
	1 Mainly arboricultural qualities	2 Mainly landscape qualities	3 Mainly cultural values, including conservation							
Trees to be considered for retention										
Category A Trees of high quality with an estimated remaining life expectancy of at least 40 years	Trees that are particularly good examples of their species, especially if rare or unusual; or those that are essential components of groups or formal or semi-formal arboricultural features (e.g. the dominant and/or principal trees within an avenue)	Trees, groups or woodlands of particular visual importance as arboricultural and/or landscape features	Trees, groups or woodlands of significant conservation, historical, commemorative or other value (e.g. veteran trees or wood-pasture)							
Category B Trees of moderate quality with an estimated remaining life expectancy of at least 20 years	Trees that might be included in category A, but are downgraded because of impaired condition (e.g. presence of significant though remediable defects, including unsympathetic past management and storm damage), such that they are unlikely to be suitable for retention for beyond 40 years; or trees lacking the special quality necessary to merit the category A designation	Trees present in numbers, usually growing as groups or woodlands, such that they attract a higher collective rating than they might as individuals; or trees occurring as collectives but situated so as to make little visual contribution to the wider locality	cultural value							
Category C Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem	Unremarkable trees of very limited merit or such impaired condition that they do not qualify in higher categories	Trees present in groups or woodlands, but without this r conferring on them significantly greater collective landscape value; and/or trees offering low or only temporary/transient landscape benefits	Trees with no material conservation or other cultural value							

FLAC Note

diameter below 150 mm

The original contents of the column *Identification on plan* have been replaced by FLAC in the version above; spot colours to RGB codes given in BS5837:2012 Table 2



NORTH-WEST BICESTER - TREE SURVEY DATA

Data for individual trees

March Marc	Data for individual ti	rees																						
Mathematical Content	I IPO Ref	Species	Ht.	C	rown S	pread ((m)					Ste	m Dia. (mm)		RPA Rad.	RPA Are	a Life	Stage	-	Structural condition & Notes Management recommendations	Ret. Sp	an QV Grad	e Proposal
March Marc	1101		(m)	N	s	w	Е			Cou	1/	2	3	4	5	(m)	(m2)						U-A-B-C	
March Marc	7001	Field maple	3.8	2	4.2	2	3 2.	.1 1.6 - 9	0.4	1						4.08	5	_		P	nsive lower stem decay. Partially failed at base, leaning towards SW. Fell to as low as reasonably practicable		U	RET
March September Septembe	7002	Field maple	6	3.8	3.6	3.	.7 3.	.5 0.4 - N	0.8	3	3 32	320	300			6.52	13	33 1	М	F	INO action required at time of survey	20+	B1	RET
Section Column	7003	Pedunculate oak	8.2	4.4	4.5	5	4 4.	.3 1.8 - 5	:	1	1 43	D				5.16	8	84 N	М	F	grown hedgerow tree. Slightly inclined stem towards SW, but no signs of recent	20+	B1	RET
Process 10	7004	Norway maple	10.3	4.3	4.5	4.	.6 4.	.2 1.1 - N	1 1.:	1	1 36)				4.32	5	59 N	М	F	INO action required at time of survey	20+	B1	RET
Part	7005	Horse chestnut	18.2	8	7.2	2 8.	.5	8 2.2 - V	V 0.3	3	1 123	D .				14.76	68	84 1	М	G	stout lower stem becomes multiple leader from 2.5-3m with tight forks where s meet. Historic storm damage has left open decaying stub in lower E crown, No No action required at time of survey	>40	A1	RET
Provinciate cat 13	7006	Horse chestnut	18.8	8.2	12	2 6.	.7 9.	.8 1 .5 - S	0.8	3	1 143	0				15.00	70	07 ľ	М	G	where stems meet. Stem inclined to SE slightly, but no sign of rootplate movement. large limb in lower S crown showing signs of subsiding. Exudate on lower stem ates pseudomonas infection, but no other symptoms present. Prolific epicormic	>40	A3	RET
Professional Color Profess	7007	Field maple	8.5	3.5	4	3.	.8 4.	.2 1.9 - \$	0.8	3	1 51	0				6.12	11	18 1	М	F		eneath the 10+	C1	RET
As A	7008	Pedunculate oak	13.8	6.8	6	5	7 6.	.2 2 - E	0.5	5	1 74	o o				8.88	24	48 1	М	F	th stem with full healthy crown. major deadwood in central crown. Possible Stabilise dead wood according to occupancy levels be	eneath the >40	B1	RET
Authority Auth	7009	Ash	8.4	2.8	2.2	2.	.7 2.	.6 1.8 - V	V 1.4	1	1 20	0				2.40	1	18 E	М	F	ence of early ash dieback disease evident in upper crown. No basal decay evident No action required at time of survey	10+	C1	RET
As of the property of the prop	7010	Ash	8.6	3	2.8	2.	.8 2.	.6 2.7 - N	1.0	â	1 21	0				2.52	2	20 E	М	F	th stem with full healthy crown. No apparent significant defect No action required at time of survey	20+	B1	RET
Across A	7011	Ash	14.2	6.2	5.6	6.	.8 6.	.5 2.6 - N	1 1.5	5	2 48	460				7.98	20	00 0	М	F	INO action required at time of survey	20+	B1	RET
Position Program Pro	7012	Ash	6.5	2.4	2.5	2.	.7 2.	.5 2.8 - N	1 2.3	3	1 18	0				2.16	1	15 S	М	F		20+	C1	RET
Absolution 1.5 2 2 3 8 2 2 5 5 V 0 3 4 11 0 0 9 8 8 2 2 2 14 0 M 9 8 8 2 2 2 5 V 0 1 4 10 0 9 8 8 0 2 2 2 4 10 M 9 9 8 8 2 2 2 2 14 0 M 9 9 8 8 2 2 2 2 14 0 M 9 9 8 8 2 2 2 2 14 0 M 9 9 8 8 2 2 2 2 14 0 M 9 9 8 8 2 2 2 2 14 0 M 9 9 8 8 2 2 2 2 14 0 M 9 9 8 8 2 2 2 2 14 0 M 9 9 8 8 2 2 2 2 14 0 M 9 9 8 8 2 2 2 2 14 0 M 9 9 8 8 2 2 2 2 14 0 M 9 9 8 8 2 2 2 2 14 0 M 9 9 8 8 2 2 2 2 14 0 M 9 9 8 8 2 2 2 2 14 0 M 9 9 8 8 2 2 2 2 14 0 M 9 9 8 8 2 2 2 2 14 0 M 9 9 8 8 8 2 2 2 2 14 0 M 9 9 8 8 8 2 2 2 2 14 0 M 9 9 8 8 8 2 2 2 2 14 0 M 9 9 8 8 8 2 2 2 2 14 0 M 9 9 8 8 8 2 2 2 2 14 0 M 9 9 8 8 8 2 2 2 2 14 0 M 9 9 8 8 8 2 2 2 2 14 0 M 9 9 8 8 8 2 2 2 2 14 0 M 9 9 8 8 8 2 2 2 2 14 0 M 9 9 8 8 8 2 2 2 2 14 0 M 9 9 8 8 8 2 2 2 2 14 0 M 9 9 8 8 8 2 2 2 2 2 14 0 M 9 9 8 8 8 2 2 2 2 2 14 0 M 9 9 8 8 8 2 2 2 2 2 14 0 M 9 9 8 8 8 2 2 2 2 2 2 2 14 0 M 9 9 8 8 8 2 2 2 2 2 2 2 14 0 M 9 9 8 8 8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	7013	Elder	4.2	2.2	2.5	1.	.8 2.	.2 1.6 - E	1.	7	2 16	140				2.56	2	21 N	М	Р	ne and dieback throughout criwn Fell to as low as reasonably practicable	<10	U	U
Actual Information 1	7014	Rowan	4.5	2.8	2.5	2.	.8 2.	.4 1.6 - V	V 1.6	5	1 15					1.80	1	10 E	М	F	oarty tree. No apparent significant defect No action required at time of survey	20+	B1	RET
Common limite 6 6 8 8 5 5 5 5 5 5 5 6 1 480 1 360 1 444 50 1 50 1 440 1 50 1 440 1 50 1 440 1 50 1 440 1 50 1 440 1 50 1 440 1 50 1 440 1 50 1 440 1 50 1 440 1 50 1 440 1 50 1 440 1 50 1 440 1 50 1 440 1 50 1 440 1 50 1 440 1 50 1	7015	Hawthorn	5	2	2.3	3.	.4 2.	.8 0.5 - V	V 0.3	3	4 11	90	90	80		2.24	1	16 N	М	F	INO action required at time of survey	20+	C1	RET
Policy Field maple 98 4.5 4.3 4 4.5 6.5 5.8 5.1 480 5.76 104 M F Egylic forks where symms reset. No observed debate or disease and no sign of obvious No action required at time of survey 20+ 81 RET	7016	Common lime	8.4	3.8	3.5	3.	.5 3.	.7 2.3 - V	V 0.6	5	1 36	,				4.32		59 N	М	F	overed lower stem. Upright stem with full healthy crown. No apparent significant No action required at time of survey	20+	B1	RET
Possess of the service of the serv	7017	Field maple	9.8	4.5	4.3	3	4 4.	.5 1.6 - 9	0.8	3	1 48	D .				5.76	10	D4 N	М	F	forks where stems meet. No observed dieback or disease and no sign of obvious No action required at time of survey	20+	B1	RET
Hawthorn	7018	Pedunculate oak	8	3.8	4	4.	.2 4.	.3 1.9 - 9	1.7	7	1 37)				4.44	6	62 N	М	F	tht stem with full healthy crown. No apparent significant defect No action required at time of survey	>40	B1	RET
No.	7019	Hawthorn	4.8	4.2	3.5	2.	.8 2.	.5 0.7 - 9	:	1	5 30	280	250	170	120	6.29	12	24 ľ	М	Р	ficant decline and discolouration of foliage evident through W and upper crown No action required at time of survey	10+	C1	RET
Pedunculate cook	7020	Hawthorn	4	3.1	2.5	2.	.6 2.	.4 0.8 - V	۷ 1.4	4	1 320)				3.84	4	46 N	М	Р	ack through upper crown and general sparse foliage. Ivy covered lower stem and No action required at time of survey	10+	C1	RET
Pedunculate oak	7021	Hawthorn	3.2	1.2	2.8	2.	.6 2.	.5 1.3 - 9	0.5	5	1 261					3.12	3	31 N	М	Р	I Fell to as low as reasonably practicable	<10	U	U
Common lime 8.9 3 3.2 3.1 3.6 1.9 · W 1.2 1 280 3.36 35 M F Upright stem with full healthy crown. No apparent significant defect No action required at time of survey 20+ B1 RET	7022	Pedunculate oak	11.1	4.6	4.5	5	5 3.	.7 2 - W	1.5	5	1 40	D				4.80	7	72 ľ	М	G	tht stem with full healthy crown. Midw in central crown. No apparent significant No action required at time of survey	>40	B1	RET
Field maple 7.6 3.2 3 2.8 3.6 1.7 - W 1.8 1 250 3.00 28 EM G Upright stem with full healthy crown. No apparent significant defect No action required at time of survey 20+ B1 RET OCCUMENTAL STATE OF STA	7023	Common lime	8.9	3	3.2	3.	.1 3.	.6 1.9 - V	V 1.2	2	1 28)				3.36	(1)	35 N	М	F		20+	B1	RET
Topic Common lime 3.8 2.1 2 1.8 2.4 1.1 - W 1.2 1 160 1.92 12 EM F Multiple leaders from 1.6m. No observed dieback or disease No action required at time of survey 20+ B1 RET	7024	Beech	6	2.2	1.8	3	2 2.	.7 1.4 - V	V 1.3	3	1 19	0				2.28	1	16 E	М	F	ewhat wind-sculpted tree. Very minor apical dieback on windward side of tree. No action required at time of survey	20+	B1	RET
Pedunculate oak 3.2 2 1.8 2.6 2.4 1.3 - E 1 1 150 1.80 10 EM F Upright stem with full healthy crown. No apparent significant defect No action required at time of survey 20+ B1 RET No 22 Common lime 7.3 2.7 3 2.8 2.7 1.6 - S 1.5 1 220 2.64 22 EM F Upright stem with full healthy crown. No apparent significant defect No action required at time of survey 20+ B1 RET No 30 Field maple 8.6 4 4.2 3.6 4.6 1.6 - E 1.3 1 280 3.36 3.5 M F Upright stem with full healthy crown. No apparent significant defect No action required at time of survey 20+ B1 RET No 31 Common lime 9.5 3.6 3.8 3.7 4 1.8 - N 0.6 1 440 5.28 88 M F Upright stem with full healthy crown. No apparent significant defect No action required at time of survey 20+ B1 RET Single main stem with full healthy crown. No apparent significant defect No action required at time of survey 20+ B1 RET Single main stem with multiple lateral branches now growing vertically to form Single main stem with multiple lateral branches now growing vertically to form No action required at time of survey 20+ B1 RET Single main stem with multiple lateral branches now growing vertically to form No action required at time of survey 20+ B1 RET Single main stem with multiple lateral branches now growing vertically to form No action required at time of survey 20+ B1 RET Single main stem with multiple lateral branches now growing vertically to form Single main stem with multiple lateral branches now growing vertically to form Single main stem with multiple lateral branches now growing vertically to form Single main stem with multiple lateral branches now growing vertically to form Single main stem with multiple lateral branches now growing vertically to form Single main stem with multiple lateral branches now growing vertically to form Single main stem with multiple lateral branches now growing vertically to form Single main stem with multiple lateral branches now growing vertically to form Single main stem with multiple lateral branches now growing vertically to form Single main stem with m	7025	Field maple	7.6	3.2	3	3 2.	.8 3.	.6 1.7 - V	V 1.8	3	1 25	0				3.00	2	28 E	М	G	tht stem with full healthy crown. No apparent significant defect No action required at time of survey	20+	B1	RET
Pedunculate oak 3.2 2 1.8 2.6 2.4 1.3 - E 1 1 150 1.80 10 EM F Upright stem with full healthy crown. No apparent significant defect No action required at time of survey 20+ B1 RET No 22 Common lime 7.3 2.7 3 2.8 2.7 1.6 - S 1.5 1 220 2.64 22 EM F Upright stem with full healthy crown. No apparent significant defect No action required at time of survey 20+ B1 RET No 30 Field maple 8.6 4 4.2 3.6 4.6 1.6 - E 1.3 1 280 3.36 3.5 M F Upright stem with full healthy crown. No apparent significant defect No action required at time of survey 20+ B1 RET No 31 Common lime 9.5 3.6 3.8 3.7 4 1.8 - N 0.6 1 440 5.28 88 M F Upright stem with full healthy crown. No apparent significant defect No action required at time of survey 20+ B1 RET Single main stem with full healthy crown. No apparent significant defect No action required at time of survey 20+ B1 RET Single main stem with multiple lateral branches now growing vertically to form Single main stem with multiple lateral branches now growing vertically to form No action required at time of survey 20+ B1 RET Single main stem with multiple lateral branches now growing vertically to form No action required at time of survey 20+ B1 RET Single main stem with multiple lateral branches now growing vertically to form No action required at time of survey 20+ B1 RET Single main stem with multiple lateral branches now growing vertically to form Single main stem with multiple lateral branches now growing vertically to form Single main stem with multiple lateral branches now growing vertically to form Single main stem with multiple lateral branches now growing vertically to form Single main stem with multiple lateral branches now growing vertically to form Single main stem with multiple lateral branches now growing vertically to form Single main stem with multiple lateral branches now growing vertically to form Single main stem with multiple lateral branches now growing vertically to form Single main stem with multiple lateral branches now growing vertically to form Single main stem with m	7026	Common lime	3.8	2.1	2	2 1.	.8 2.4	4 1.1 - V	V 1.2	2	1 16)				1.92	1	12 E	М	F	iple leaders from 1.6m. No observed dieback or disease No action required at time of survey	20+	B1	RET
7029 Common lime 7.3 2.7 3 2.8 2.7 1.6 - 5 1.5 1 220	7027		3.2	2	1.8	3 2.	_		_	1	1 15)				1.80	1	10 E	М	F	tht stem with full healthy crown. No apparent significant defect No action required at time of survey	20+	C1	RET
Field maple 8.6 4 4.2 3.6 4.6 1.6 - E 1.3 1 280 3.36 3.5 M F Upright stem with full healthy crown. No apparent significant defect No action required at time of survey 20+ B1 RET Common lime 9.5 3.6 3.8 3.7 4 1.8 - N 0.6 1 440 5.28 88 M F Upright stem with full healthy crown. No apparent significant defect No action required at time of survey 20+ B1 RET Single main stem with multiple lateral branches now growing vertically to form congested central crown. Bark wounds on lower stem, but only superficial decay No action required at time of survey 20+ B1 RET Associated.	7028	Pedunculate oak	4.7	3.4	3.2	2	3 3.	.3 1.5 - N	1 1.5	5	1 19	0				2.28	1	16 E	M	F	th stem with full healthy crown. No apparent significant defect No action required at time of survey	20+	B1	RET
Common lime 9.5 3.6 3.8 3.7 4 1.8 - N 0.6 1 440 5.28 88 M F Upright stem with full healthy crown. No apparent significant defect No action required at time of survey 20+ B1 RET Single main stem with multiple lateral branches now growing vertically to form congested central crown. Bark wounds on lower stem, but only superficial decay No action required at time of survey 20+ B1 RET TO33 Horse chestnut 12.1 5.8 6 6.2 6.4 2.4 - W 1.4 1 700 8.40 222 M G Stout lower stem with relatively short crown above. No observed dieback or disease and No action required at time of survey 20+ B1 RET	7029	Common lime	7.3	2.7	3	2.	.8 2.	.7 1.6 - 9	1.5	5	1 22	0				2.64	2	22 E	М	F	th stem with full healthy crown. No apparent significant defect No action required at time of survey	20+	B1	RET
Field maple 8.4 4.2 4.6 4.3 4.4 0.5 - N 1.5 1 420 5.04 80 M F Congested central crown. Bark wounds on lower stem, but only superficial decay No action required at time of survey 20+ B1 RET 303 Horse chestnut 12.1 5.8 6 6.2 6.4 2.4 - W 1.4 1 700 8.40 222 M G Stout lower stem with relatively short crown above. No observed dieback or disease and No action required at time of survey 20+ B1 RET 305 No action required at time of survey 30+ B1 RET 305 No action required at time of survey 30+ B1 RET 30+ B1 RE	7030	Field maple	8.6	4	4.2	3.	.6 4.	.6 1.6 - E	1.3	3	1 28	0				3.36	3	35 N	И	F	tht stem with full healthy crown. No apparent significant defect No action required at time of survey	20+	B1	RET
Field maple 8.4 4.2 4.6 4.3 4.4 0.5 - N 1.5 1 420 5.04 80 M F congested central crown. Bark wounds on lower stem, but only superficial decay No action required at time of survey 20+ B1 RET 7033 Horse chestnut 12.1 5.8 6 6.2 6.4 2.4 - W 1.4 1 700 8.40 222 M G Stout lower stem with relatively short crown above. No observed dieback or disease and No action required at time of survey 20+ B1 RET	7031	Common lime	9.5	3.6	3.8	3.	.7	4 1.8 - N	0.6	5	1 44	0				5.28	8	88 1	М	F		20+	B1	RET
1 /U331 IHOrse coestnut 12.11 5.81 bl 6.21 6.412.4 · WI 1.41 11 /UUI 1 1 8.4UI 2221 MI G	7032	Field maple	8.4	4.2	4.6	4.	.3 4.	.4 0.5 - N	1.5	5	1 42	,				5.04	8	80 r	М	F	ested central crown. Bark wounds on lower stem, but only superficial decay No action required at time of survey	20+	B1	RET
	7033	Horse chestnut	12.1	5.8	6	6.	.2 6.	.4 2.4 - V	V 1.4	4	1 70	0				8.40	22	22	М	G	INO action required at time of survey	20+	B1	RET

FLAC Ref. No.	TPO Ref Speci	es F	Ht.	Cro	wn Sp	oread (m	ո)	Ht. 1 ^s Br.	Ht.		nt		Stem D	Dia. (mi	m)		RPA Rad.	RPA Area	Life Sta		Phys. ondition	Structural condition & Notes	Management recommendations	Ret. Span	QV Grade	Proposal
		1)	(m) I	N	s	w	E	(m)	(m)		1 me		2	3	4	5	(m)	(m2)	Y-SM-EM OM	-M-	G-F-P-D			<10, 10+ 20+, >40	U-A-B-C	
7034	Field maple		10	4.8	5	4.6	4.5	5 1.6 - E	1	5	1 4	140					5.28	88	В М		G	Upright stem with full healthy crown. No apparent significant defect	No action required at time of survey	20+	B1	RET
7035	Horse chest	nut	11.2	5.2	6	6.5	6.4	4 1.7 - S	1	6	1 6	510					7.32	168	М		F	Somewhat sparse foliage through crown. Leaf miner moth infestation evident. moderate deadwood in central crown. No basal or stem decay observed.	No action required at time of survey	10+	C1	RET
7036	Pedunculat	oak	9.5	5.2	4.8	4	4.2	2 1.8 - N	N 1	5	1 3	350					4.20	55	М		F	Upright stem with full healthy crown. No apparent significant defect	No action required at time of survey	>40	B1	RET
7037	Ash		15.2	7.1	6.5	6.7	6.5	5 2.2 - N	۱ 1	8	2 6	520 2	240				7.98	200	М		F	Twin stems from ground level with tight forks where stems meet. Ivy covered lower stem. No observed dieback or disease and no sign of obvious decay	No action required at time of survey	20+	B1	RET
7038	Ash		14.3	4.5	4.8	6	3.3	1 2.5 - N	N 2	8	1 5	20					6.24	122	M		F	lvy covered lower stem and crown. Skewed and asymmetrical criwn. Somewhat sparse foliage. No observed dieback or disease and no sign of obvious decay	No action required at time of survey	20+	C1	RET
7039	Common lir	ie	7.1	3	2.8	3	3.2	2 1.2 - N	٥ (.2	1 3.	20					3.84	46	М		F	lvy covered lower stem and crown. No observed dieback or disease and no sign of obvious decay	Sever ivy at base of tree	20+	B1	RET
7040	Horse chest	nut	5.8	2.8	2.6	2.7	3.2	2 1.8 - 9	1	6	1 2	40					2.88	26	EM.		F	lvy covered lower stem and crown. No observed dieback or disease and no sign of obvious decay	No action required at time of survey	20+	B1	RET
7041	Common lir	ie	5.6	2.8	2.5	3	3.3	1 1.9 - N	۱ 1	6	1 2	30					2.76	24	EM		Р	Sparse crown with apical dieback to W	No action required at time of survey	10+	C1	RET
7042	Field maple		6.1	2.8	2.7	2.8	***	3 2.1 - 5	5 2	.1	1 2	50					3.00	28	EM		F	lvy covered lower stem. No observed dieback or disease and no sign of obvious decay	Sever ivy at base of tree	20+	B1	RET
7043	Pedunculat	oak	5.2	3	2.2	3.2	3	3 1.7 - V	V 1	6	1 2	30					2.76	24	EM.		F	lvy covered lower stem and crown. No observed dieback or disease and no sign of obvious decay	Sever ivy at base of tree	20+	B1	RET
7044	Ash		6.7	2.5	2.4	2.2	2.8	8 1.7 - V	V 2	.1	1 2	200					2.40	18	B EM		F	Upright stem with full healthy crown. No apparent significant defect	No action required at time of survey	20+	B1	RET
7045	Horse chest	nut	4.6	3	2.8	3.2	3	3 2.1 - 9	;	2	1 2	50					3.00	28	B EM		F	lvy covered lower stem and crown. Congested central crown. No observed dieback or disease and no sign of obvious decay	No action required at time of survey	20+	B1	RET
7046	Field maple		6.8	3.5	2.8	3.2	2.6	6 1.4 - N	N 1	.9	1 2	50					3.00	28	B EM		F	Ivy covered lower stem and crown. Epicormic growth on lower stem stimulated by animal browsing. No observed dieback or disease and no sign of obvious decay	No action required at time of survey	20+	B1	RET
7047	Goat willow		8.2	4.8	4.2	3.8	4.3	3 0.5 - E	E	1	2 3	50 3	320				5.70	102	2 M		Р	Cannot fully assess base of tree due to dense ruderal growth around tree. Twin stems from ground level with tight forks where stems meet. Dieback through upper crown, with sparse foliage elsewhere.	No action required at time of survey	10+	C1	REM
7048	Goat willow		5.1	3.2	2.5	2.6	2.5	5 0.8 - 1	N 0	.3	3 1	150	130	110			2.73	23	S SM		F	Cannot fully assess base of tree due to dense ruderal growth around tree. Multiple stems from ground level with tight forks where stems meet. No observed dieback or disease and no sign of obvious decay	No action required at time of survey	20+	C1	REM

Data for trees assessed as groups (TG)

FLAC Ref. No.	TPO Ref	Species	Tree Count	Ht.	MRCS	Ht. 1 st Br.		Specimen Stem Dia.	-	-	Life Stage	Phys. Condition	Structural condition & Notes	Management recommendations	-	QV Grade	Proposal	No. of trees retained	Trees retained
				(m)	(m)	(m)	(m)	(mm)	(m)	(m2)	Y-SM-EM-M- OM	G-F-P-D			<10, 10+ 20+, >40	U-A-B-C			%
TG7001		Field maple, pedunculate oak, ash,	40	9.5	5	3 1.4 - E	1	200	2.40	18	EM	F	Dense cluster of planted trees. Ash showing minor signs of ash dieback, but no other significant issues observed	No action required at time of survey	20+	B2	RET	40	100.0
TG7002		Field maple, grey poplar	20	8.5	5 3.	5 1.2 - S	1.2	230	2.76	24	EM	F	Dense cluster of planted trees just beyond boundary of site. No apparent significant defect	No action required at time of survey	20+	B2	RET	20	100.0
TG7003		Elder	6	5	3.	5 0.3 - S	0.3	220	2.64	22	М	F	Compact small group of trees forming single canopy. No observed dieback or disease and no sign of obvious decay	No action required at time of survey	20+	B2	RET	6	100.0
TG7004		Hawthorn, elder	3	3	3	2 0.3 - E	0.1	85	1.02	3	М	F	Scattering of trees which appear to be last remnants of hedgerow. No observed dieback or disease	No action required at time of survey	10+	C2	REM	0	0.0
TG7005		Crack willow, common alder, aspen, grey poplar, ash, field maple	40	13.5	5 4.	5 1 - W	1.5	350	4.20	55	М	F	Row of trees along edge of ditch at boundary of site. Most trees appear to be overgrown hedgerow trees with multiple stems from near ground level. Several trees showing signs of subsiding limbs and failing basal unions. Ivy dominates lower crowns of several trees.	Remove/reduce subsiding or failing limbs/stems. Replant any gaps created to maintain visual barrier.	20+	C2	RET	40	100.0
TG7006		Crack willow	3	4.5	5 :	3 0.4 - N	0.2	650	7.80	191	ОМ	Р	Rough row of trees all having had crowns removed to leave decaying stumps with prolific and extensive covering of shoot regrowth. All foliage appears healthy, but structure of stumps unable to maintain tall crown	No action required at time of survey	10+	C2	RET	3	100.0
TG7007		Apple, pear, hawthorn	4	e	5 2.	5 0.8 - N	1.2	120	1.44	7	М	F	Cluster of orchard trees on 3rd party land just beyond boundary fence. No observed dieback or disease and no sign of obvious decay	No action required at time of survey	20+	C2	RET	4	100.0
TG7008		Paperbark birch	2	7.5	3.	5 1.8 - E	1.6	190	2.28	16	EM	F	Pair of 3rd party trees in garden. No apparent significant defect	No action required at time of survey	20+	B2	RET	2	100.0
TG7009		Ash, sycamore, horse chestnut, cypress spp.	14	16.5	5 (5 1.7 - S	2.5	500	6.00	113	М	F	Row of trees along boundary fence line/culvert edge. No apparent significant defect	No action required at time of survey	20+	B2	RET	14	100.0

Data for trees assessed as woodland (WG)

FLAC Ref. No.	TPO Ref	Species	Area (m²)	Ht.	MRCS (m)	Ht. 1st Br. (m)	Ht Can	•	Specimen RPA Rad. (m)	•	Life Stag	Condition	Structural condition & Notes	Management recommendations	Ret. Span <10, 10+ 20+, >40	QV Grade U-A-B-C	Proposal	Area retained (m²)	Area retained %
WG7001		Field maple, ash, hawthorn, elder	6670	10	3.5	0.5 - E	1	280	3.36	35	М	F	vegetation throughout. Few dead or dying trees present. No systemic issues observed	No action required at time of survey	20+	В3	RET	6670	100.0
WG7002		Ash, field maple, blackthorn, elder, hawthorn, Scots pine, pedunculate oak, hornbeam, Norway maple, hazel, gean,	19565	13	4.5	1.5 - E	1	360	4.32	59	М	F	Southern, Western and Eastern edges. Taller and more mature trees present towards the centre of the group and within the Northern third of the feature. Informal bike track within Northern section of group. Ground flora is minimal, but patches of more significant vegetation are found sporadically through area. My systemic issues observed with mature trees or denser understorey trees. Woodland bank and ditch bounds the group along the Southern edge. Good mix of maturity and size of trees	No action required at time of survey	>40	A3	RET	19565	100.0

Data for hedgerows (HR)

FLAC Ref. No.	Species	Ht.	Mean Width	Length	Mean Stem Dia.	Life Stage	Phys. Condition	Structural condition & Notes	Management recommendations	Ret. Span	QV Grade	Proposal	Length retained	Percentage retained
		(m)	(m)	(m)	(mm)	Y-SM-EM-M- OM	G-F-P-D			<10, 10+ 20+, >40	U-A-B-C		(m)	%
HR7001	Field maple, hawthorn, ash, elder	4.5	3.5	205	170	М	F	Healthy, thick foliage throughout feature. No significant gaps along length. Lowest 3m shows recent management, but height varies along length as taller field maple and ash are routinely present along feature. Dense ivy growth through lower areas. No observed dieback or disease		20+	B2	RET	205	100.0
HR7002	Field maple, hawthorn, ash, pedunculate oak,	4	3	360	180	М	F	Healthy, thick foliage throughout feature. No significant gaps along length. Lowest 3m shows recent management, but height varies along length as taller field maple and ash are routinely present along feature. Dense ivy growth through lower areas. Some sparse lower areas present where overgrown trees have become more dominant in feature. No observed dieback or disease	No action required at time of survey	20+	В2	RET	360	100.0
IHR //////	Elm, blackthorn, field maple, crab apple, hawthorn, ash	4	4	330	100	М	F	Dense foliage along length, primarily of blackthorn and field maple. Majority of elm in group is either dead or dying. Three particularly poor areas of elm are shown on plan.	Fell dead/dying elm within highlighted areas	20+	C2	RET	330	100.0
HR7004	Blackthorn, hawthorn	2	1.8	120	60	EM	F	Relatively young hedgerow. No observed dieback or disease	No action required at time of survey	20+	C2	RET	120	100.0
HR7005	Hazel, elm, field maple, hawthorn, ash, elder,	7.5	4.5	120	200	М	F	Heavily overgrown feature with little in the way of recent management evident. Density of foliage and height varies along length. Elm is declining in general throughout feature.	Remove dead/dying elm.	20+	В3	RET	120	100.0
HR7006	Elder, blackthorn, elm, hawthorn	4.5	4	180	160	М	F	Somewhat undermanaged, but healthy, feature. Occasional dead/dying stem. No systemic dieback or decline present.	Fell dead/dying stems	20+	В3	RET	180	100.0
HR7007	Elm, elder, hawthorn	3.8	3	105	140	М	Р	Gaps along length with sparse foliage and dead/elm throughout.	Fell dead/dying elm. Replant gaps with suitable native broadleaf species	<10	U	RET	105	100.0
HR7008	Hawthorn, elder	3.5	3	60	150	М	Р	Dieback evident throughout feature, particularly in elder.	No action required at time of survey	10+	C2	RET	60	100.0
HR7009	Hawthorn, elder, blackthorn	4.5	3	35	120	М	F	Short section of unmanaged hedge with a few declining trees showing dieback.	Fell dead/dying trees. Replant gaps with suitable native broadleaf species	10+	C2	RET	35	100.0
HR7010	Hawthorn, blackthorn, elm, Norway maple, ash, field maple,	2.5	2.5	180	75	EM	F	Sporadic feature with multiple gaps along length, particularly towards N end if feature. Dievack/decline with majority of elm.	Fell declining trees. Replant gaps with suitable native broadleaf species	10+	C2	RET	180	100.0
HR7011	Apple, elder, hawthorn, sycamore	5	3.5	25	180	ОМ	Р	Remnant of longer feature. All trees remaining are either declining or heavily dominated by ivy.	No action required at time of survey	10+	C2	RET	25	100.0
HR7012	Hawthorn, elder, blackthorn, ash	2.2	2	125	65	M	F	Generally well maintained feature, but several gaps and incomplete section along length, particularly towards S half of feature. No observed dieback or disease	Replant gaps with suitable native broadleaf species	20+	C2	RET	125	100.0
HR7013	Hawthorn, elder, field maple	2.6	2	45	70	М	F	Well maintained, thick and healthy short section of hedge along roadside. No observed dieback or disease	No action required at time of survey	20+	B2	RET	45	100.0
HR7014	Hawthorn, elder, blackthorn	2.8	2.5	165	90	М	F	Well maintained, thick and healthy feature generally. Small sparse areas beside trees growing from hedge and towards W end. No observed dieback or disease	Replant gaps with suitable native broadleaf species	20+	B2	RET	165	100.0





