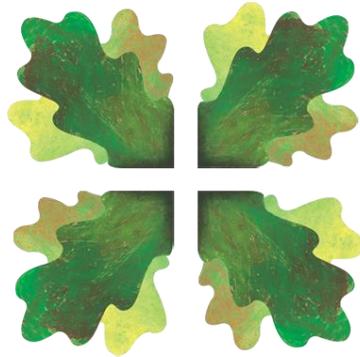


# BS5837 Tree Survey Results

With Tree Constraints Plan

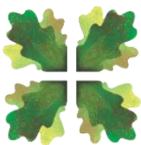


**DOUG PRATT**  
TREE CONSULTANCY

## Former Exwick Middle School, Exeter

13<sup>th</sup> June 2019

**Ref: 19.043/TS/EMS**



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1192

## TREE SURVEY NOTES (for survey overleaf):

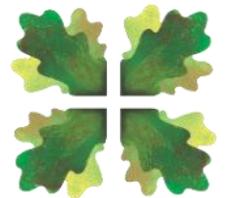
Tree No.	Number on plan and in survey data table *Indicates trees or tree groups not shown by topographical survey
Species	Tree species with <i>botanical</i> name when first listed
Height (Ht.).	Estimated height, including boundary feature such as a bank, if the tree grows on top
Dia. or $\emptyset$	Stem diameter estimated in millimetres at 1.5m above ground level MS indicates multiple stems, where there are multiple small diameter stems of less than 100mm E indicates a rough estimate B is a basal estimate
Crown spread	Estimated on the four compass points, or extent over site from tree groups.
Height of crown clearance (HCC)	The height to the lowest branch attachments and first significant branch and direction of growth.
Age Class	Young (Y) Sapling Semi Mature (SM) First $\frac{1}{4}$ natural life span Early Mature (EM) Second $\frac{1}{4}$ natural life span Mature (M) Third $\frac{1}{4}$ natural life span Late Mature (LM) Final $\frac{1}{4}$ natural life span, start of declining/retrenching crown Veteran (V) From LM into senescence, and/or experienced numerous storm damage/failure events with associated wounds and decay.
Condition	Good, Fair, Poor. Dead. In addition, specific diseases, defects or faults are described.
Action and/or comments	Recommendations for tree work where observed as necessary, including further investigations of suspected defects which may require more detailed assessment. If blank no works are recommended.
ERC.	Estimated remaining contribution in years: Less than 10 years; 10-20 years; 20 -40 years; more than 40 years.
Cat.	BS5837 Category: A Red; B Blue; C Grey; U Red.
Root Protection Area (RPA)	The root protection in m <sup>2</sup> , as area and/or radial distance as measured from the centre of the tree stem. For linear features a buffer may be recommended, to be measured from tree stems facing the site.

## TREE SURVEY DATA

Tree No	Species	Ht. (m)	Dia. (mm)	Crown extents (m)				HCC (m)	Life stage	Physiological Condition	Structural Condition	Comment	ERC	BS Cat.	RPA m <sup>2</sup>	RPA r(m)
				N	E	S	W									
G1	Aspen <i>Populus tremula</i> Field maple <i>Acer campestre</i>	16	250 Ave.	-	-	9	-	-	M	Good	Uncertain		20+	B2	3m per stem	
T2	Lime <i>Tilia</i> spp.	6	200x2 250x2	6	5	3	7	0.5	M	Good	Fair; acute unions		20+	B1	79	5.0
T3	Lime <i>Tilia</i> spp.	8	500	2	5	4	7	1	M	Good	Fair; acute unions		20+	B1	95	5.5
G4	London Plane <i>Platanus x hispanica</i> Silver Birch <i>Betula pendula</i>	To 14	See TCP	-	-	-	7	2	M	Fair: plane low vitality One Birch with low vitality	Some branch shedding from Plane trees		40	B2	See TCP	
T5	Oak <i>Quercus robur</i>	14	800	10	10	7	8	2.5	M	Good	Fair; stem wound with decay		40	B1	290	9.6
G6	Lawson's Cypress <i>Chamaecyparis lawsoniana</i>	9 Max.	-	4 all round				0	M	Good	Good	Oak saplings interspersed	20	B2	3m per tree	
T6	Ash <i>Fraxinus excelsior</i>	7	150 170	4	4	4	4	1	EM	Good	Fair		20+	C1	23	2.7
T6a	Ash	11	200	9	3	0	1	3	M	Fair	Poor		20	C1	18	2.4
G7	Willow <i>Salix</i> spp. Hazel <i>Corylus avellana</i>	8	MS	-	-	-	-	0	M	Fair	Poor		20	C2	Canopy extents	
T7	Poplar <i>Populus</i> spp.	20	480x2	9	8	8	7	0-2	M	Good	Fair; removed 1/3 <sup>rd</sup> stem S		20	B1	208	8.0
T8	Poplar	20	400	8	2	8	3	2	M	Good	Good		20+	B1	72.5	5.0
T9	Poplar	20	720	10	10	10	10	2+	M	Good	Good		20+	B1	203	8.0
G10	Field Maple x 3 Lime x 1 Hornbeam x 1 <i>Carpinus betulus</i>	10	200 Ave.	6	-	-	-	1	M	Good	Good		20+	C2	3.0 per stem	
T11	Lime <i>Tilia</i> spp.	14	350	5	6	6	1	2	M	Good	Fair		40	B1	55	4.0
T12	Oak <i>Quercus robur</i>	10	430	8	8	8	8	2	M	Good	Good		40	A1	80	5.0
T13	Silver Birch <i>Betula pendula</i>	10	430 E	5	5	5	5	0	M	Good	Uncertain		20+	B1	3m into site	
T14	Lawson's Cypress	7	MS	4	4	4	4	0	M	Good	Uncertain		20	C1	See TCP	
G15	London Plane x 5 Birch x 2 <i>Betula utilis</i>	20	500 Ave.	-	10	-	-	2+	M	Fair; low vitality	Variable		40	B2	6.0 per stem	
G16	Oak, Ash	2 to 8	50 Ave.	-	-	-	-	0	SM	Good	Good		40+	B2	Canopy extents	
T17	Ash	8	310	8	5	4	6	2+	EM	Good	Good		40	B1	38	3.5
T18	Ash	8	250	4	4	5	4	1	EM	Good	Fair; acute unions		20+	B1	22	2.5

## TREE SURVEY DATA

Tree No	Species	Ht. (m)	Dia. (mm)	Crown extents (m)				HCC (m)	Life stage	Physiological Condition	Structural Condition		ERC	BS Cat.	RPA m <sup>2</sup>	RPA r(m)
				N	E	S	W									
G19	Hornbeam x 4	11	600 Max.	8	8	5	-	0	M	Good	Variable to fair; acute unions		20+	B2	6m per stem	
G20	Ash	12	150 Ave.	-	4	-	-	2+	EM	Good	Good, but grows through fence		20+	C1	-	-
T21	Sycamore <i>Acer pseudoplatanus</i>	12	250x3 200x2	2	7	7	6	1	M	Good	Fair; acute unions		20+	C1	95	5.5
T22	Silver Birch	5	220	1	0	4	3	2+	M	Good	Poor		20	C1	22	2.5
T23	Monterey Pine <i>Pinus radiata</i>	18	780	12	12	12	12	0.5.S	M	Good	Good	Crown lift to 4m over access	40	A1	275	9.5
T24	Oak	6	400 B	5	7	7	5	0	EM	Good	Fair		40	C1	72	4.5
G25	Oak	To 20	1000 Max.	-	-	10	-	1+	LM	Fair; low vitality	Uncertain	Limited access	40	A2	12m per tree	



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**Table 1 – Cascade chart for tree quality assessment (extract from BS5837:2012 Trees in relation to design, demolition and construction – Recommendations)**

Category and definition	Criteria (including subcategories where appropriate)			Identification on plan
<b>Trees unsuitable for retention</b> (see Note)				
<p><b>Category U</b></p> <p>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</p>	<ul style="list-style-type: none"> <li>Trees that have a serious, irremediable, structural defect, such that their early loss is expected due to collapse, including those that will become unviable after removal of other U category trees (i.e. where, for whatever reason, the loss of companion shelter cannot be mitigated by pruning)</li> <li>Trees that are dead or are showing signs of significant, immediate, and irreversible overall decline.</li> <li>Trees infected with pathogens of significance to the health and/or safety of other trees nearby, or very low quality trees suppressing adjacent trees of better quality</li> </ul> <p><i>NOTE Category U trees can have existing or potential conservation value which it might be desirable to preserve; see 4.5.7.</i></p>			DARK RED
	<b>1 Mainly Arboricultural values</b>	<b>2 Mainly landscape values</b>	<b>3 Mainly cultural values, including conservation</b>	
<b>Trees to be considered for retention</b>				
<p><b>Category A</b></p> <p>Those of high quality and value: such a condition as to be able to make a substantial contribution (a minimum of 40 years is suggested)</p>	Trees that are particularly good examples of their species, especially if rare or unusual, or essential components of groups, or of 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)	LIGHT GREEN
<p><b>Category B</b></p> <p>Those of moderate quality and value: those in such a condition as to make a significant contribution (a minimum of 20 years is suggested)</p>	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	Trees with material conservation or other cultural value	MID BLUE
<p><b>Category C</b></p> <p>Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150 mm</p>	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 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	GREY