## BS5837:2012 Tree Survey

Client: Meadow Residential

Project: Mill Hill

Survey Date: 08/09/2016 - 04/07/2018

Surveyor: Jon Hartley



## **Arbtech Consulting Ltd.**

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Tree and Tag No		Hght	S	tems	_	Crown			RP	Phys	Structural	Preliminary Recommendations Cat
Species		(m)	No	Ø (mm)	Spread (m)		Clear (m)		A (m <sup>2</sup> R (m)			Survey Comment ERC
C1												Estimated Measurement
A Collection		5	1	150	N	1.5	;	2 Y	A: 10.2	Fair	C: Fair	C.2
See comments for details					E S W	1.5 1.5 1.5	i	2 2 2	R: 1.8		S: Fair B: Fair	Mixed species collection including whitebeam; birch and <10 yrs cherry; trees grow from strip planters with limited potential rooting volume in car park.
C1a												Estimated Measurement
A Collection		5	1	150	N	1.5	,	2 Y	A: 10.2	Fair	C: Fair	C.2
See comments for details					Е	1.5		2	R: 1.8		S: Fair	<10 yrs
					S	1.5	i	2			B: Fair	<10 yis
					W	1.5	i	2				
C1b												Estimated Measurement
A Collection		5	1	150	N	1.5	;	2 Y	A: 10.2	Fair	C: Fair	C.2
See comments for details					Е	1.5		2	R: 1.8		S: Fair	<10 yrs
					S	1.5	;	2			B: Fair	.,.
					W	1.5	i	2				
C1c												Estimated Measurement
A Collection		5	1	150	N	1.5	;	2 Y	A: 10.2	Fair	C: Fair	C.2
See comments for details					Ε	1.5		2	R: 1.8		S: Fair	<10 yrs
					S	1.5		2			B: Fair	.,.
					W	1.5	i	2				
Age Classifications:	N	Newly plant	ed	EM Early	Mature	e		Cond	ition:	C Crown	Si	tems: Ø Diameter
	Υ	Young		M Matu						S Stem		(Eq) Equivalent stem diameter using BS5837:2012 definition
	SM	Semi-matur	e (	OM Over	Mature	9				B Basal are	a	

Tree and Tag No	Hght	S	items		Crow			RP	Phys	Structural	Preliminary Recommendations Cat
Species	(m)	No	(mm)	Spro (n		Clear (m)	Age	A (m²) R (m)	Condition		Survey Comment ERC
C1d											Estimated Measurements
A Collection	5	1	150	N	1.5	2	Υ	A: 10.2	Fair	C: Fair	C.2
See comments for details				Ε	1.5	2		R: 1.8		S: Fair	<10 yrs
				S	1.5	2				B: Fair	120 ).0
				W	1.5	2					
C1e											Estimated Measurements
A Collection	5	1	150	N	1.5	2	Υ	A: 10.2	Fair	C: Fair	C.2
See comments for details				Е	1.5	2		R: 1.8		S: Fair	<10 yrs
				S	1.5	2				B: Fair	\10 yi3
				W	1.5	2					
C1f											Estimated Measurements
A Collection	5	1	150	N	1.5	2	Υ	A: 10.2	Fair	C: Fair	C.2
See comments for details				Е	1.5	2		R: 1.8		S: Fair	<10 yrs
				S	1.5	2				B: Fair	10 yis
				W	1.5	2					
C1g											Estimated Measurements
A Collection	5	1	150	N	1.5	2	Υ	A: 10.2	Fair	C: Fair	C.2
See comments for details				Ε	1.5	2		R: 1.8		S: Fair	<10 yrs
				S	1.5	2				B: Fair	<10 yi3
				W	1.5	2					
C1h											Estimated Measurements
A Collection	5	1	150	N	1.5	2	Υ	A: 10.2	Fair	C: Fair	C.2
See comments for details				E	1.5	2		R: 1.8		S: Fair	<10 yrs
				S	1.5	2				B: Fair	<10 yis
				W	1.5	2					
C2											Estimated Measurements
A Collection	1.5	1	100	N	0.75	0	SM	A: 4.5	Good	C: Good	C.2
See comments for details				Ε	0.75	0		R: 1.19		S: Good	Collection of seven Lawson cypress of varying dimensions. 10 to 20
				S	0.75	0				B: Fair	Collection of seven Lawson cypress of varying dimensions, 10 to 20 details recorded relate to the largest individual; grow from a Yrs
				W	0.75	0					raised surface approximately 1m above car park surface level.
Age Classifications:	N Newly plant Y Young	ted	EM Early M Matu	Matur	е	ı	Cond		C Crown	St	tems: Ø Diameter  (Eq.) Equivalent stem diameter using RS5837:2012 definition
	Y Young SM Semi-matur	ro.	OM Over		0				s Stem Basal are	2	(Eq) Equivalent stem diameter using BS5837:2012 definition
	Sivi Sellii-Illatul	6	Owi Over	wature	<del>-</del>				Dasai are	а	

Tree and Tag No	Hght	9	Stems		own		RI		s Structi	ıral Preliminary Recommendations	Cat
Species	(m)	No	Ø (mm)	Spread (m)	Clear (m)	Ag	e A (r R (r	'			ERC
G1										Estimated Meas	surements
A Group	4	1	90	N	1	1 Y	A: 3.	7 Fair	C: Fair		C.2
See comments for details				Е	1	1	R: 1.0	)8	S: Fair	Mixed species shrub group with some self seeded ash; roots	20 to 40
				S	1	1			B: Fair	likely to be contained within planter.	yrs
				W	1	1				,,	
G2										Estimated Meas	surements
A Group	6	1	130	N	3	1 Y	A: 7.0	Good	d C: Good		C.2
See comments for details				Е	3	1	R: 1.	55	S: Good	Mixed species regeneration group including ash, sycamore,	>40 yrs
				S		1			B: Good	cherry and hawthorn growing between the road surface and	, ,
				W	3	1				the retaining wall of Pentavia park; dimensions recorded are the largest represented within the group.	
G3										Estimated Meas	surements
A Group	6	1	130	N	3	1 Y	A: 7.0	Good	d C: Good		C.2
See comments for details				Е	3	1	R: 1.	55	S: Good	Mixed species regeneration group including ash, sycamore,	>40 yrs
				S	3	1			B: Good	cherry and hawthorn with bramble an dog rose; dimensions	7 10 713
				W	3	1				recorded are the largest represented within the group.	
G4										Estimated Meas	surements
Common Ash	16	1	320	N	6	6 SM	I A: 46	.3 Good	d C: Good		B.1.2
Fraxinus excelsior				Е	6	6	R: 3.8	33	S: Good	Dominant ash within the woodland group W01.	>40 yrs
				S	6	6			B: Good	Dominant ash within the woodland group wor.	7 10 713
				W	6	6					
W1										Estimated Meas	surements
A Group	6	1	200	N	4	1 SM	A: 18	.1 Good	d C: Good		<b>B.2</b>
See comments for details				Е	4	1	R: 2.	ŀ	S: Good	Woodland group; ash dominates with an understory of ash,	>40 yrs
				S	4	1			B: Good	oak, willow, hawthorn, apple, pear; dimensions recorded are	,
				W	4	1				the largest represented within the group.	
1											
Holm Oak	6	1	230		.5 1.		A: 23				<b>C.1</b>
Quercus ilex				E 1	.5 1.	5	R: 2.	75	S: Good	Grows from planter of limited space.	>40 yrs
					.5 1.				B: Fair	F	•
				W 1	.5 1.	5					
<b>3</b>	N Newly plant	ed	-	Mature		Cond	lition:	C Crow		Stems: Ø Diameter	
	Y Young		M Matu					S Stem		(Eq) Equivalent stem diameter using BS5837:2012 defin	ition
	SM Semi-matur	е	OM Over	wature				B Basa	ı area		

Tree and Tag No	Hght	9	Stems		Crow			RP	Phys	Structural	Preliminary Recommendations	Cat
Species	(m)	No	Ø (mm)	Spre (m		Clear (m)	Age	A (m²) R (m)	Condition	Condition	Survey Comment	ERC
2												
Holm Oak	3	1	130	N	1.5	1.5	Υ	A: 7.6	Good	C: Good		C.1
Quercus ilex				Е	1.5	1.5		R: 1.55		S: Good	Grows from planter of limited space.	>40 yrs
				S	1.5	1.5				B: Fair	Grows from planter of lifficed space.	7 10 713
				W	1.5	1.5						
3												
Holm Oak	3	1	130	N	1.5	1.5	Υ	A: 7.6	Good	C: Good		C.1
Quercus ilex				E	1.5	1.5		R: 1.55		S: Good	Grows from planter of limited space.	>40 yrs
				S	1.5	1.5				B: Fair	Grows from planter of limited space.	, ,,,,
				W	1.5	1.5						
4											Estimated I	Measurement
Downy Birch	4	1	100	N	1	2	Υ	A: 4.5	Poor	C: Poor		C.1
Betula pubescens				Е	1	2		R: 1.19		S: Good	Apical die back; grows from planter with limited potential	<10 yrs
				S	1	2				B: Fair	rooting volume.	110 yis
				W	1	2					. Social growth of the control of th	
5												
Holm Oak	4	1	160	N	1.5	1.5	Υ	A: 11.6	Good	C: Good		C.1
Quercus ilex				E	1.5	1.5		R: 1.92		S: Good	Grows from planter with limited potential rooting volume.	>40 yrs
				S	1.5	1.5				B: Good	Grows from planter with limited potential rooting volume.	
				W	1.5	1.5						
6											Estimated I	Measurement
Stags horn sumach	3	2	106 (Eq	) N	3	1	М	A: 5.1	Fair	C: Good		C.1
Rhus typhina				E	1.5	1		R: 1.27		S: Fair	Grows from planter with limited potential rooting volume.	10 to 20
				S	1	1				B: Fair	Grows from planter with limited potential rooting volume.	yrs
				W	1.5	1						
7											Estimated I	Measurement
Stags horn sumach	3	2	106 (Eq	) N	1.5	1	М	A: 5.1	Fair	C: Good		C.1
Rhus typhina				Е	1.5	1		R: 1.27		S: Fair	Grows from planter with limited potential rooting volume.	10 to 20
				S	1.5	1				B: Fair	Grows from planter with inflited potential rooting volume.	yrs
				W	1.5	1						
Age Classifications:	N Newly plant	ed	EM Early	Mature	Э	C	ondit	ion: C		St	tems: Ø Diameter	
	Y Young		M Matur	e				S	Stem		(Eq) Equivalent stem diameter using BS5837:2012 of	lefinition
	SM Semi-matur	е	OM Over	Mature	9			В	Basal area	а		

Tree and Tag No	Hght	S	tems		Crow				RP (	Phys	Structural	Preliminary Recommendations	Cat
Species	(m)	No	Ø (mm)	Spre (m		Clear (m)	Ag	je	A (m²) R (m)	Condition	Condition	Survey Comment	ERC
8												Estimated Me	asurements
Cherry	6	1	200	N	2	3	SM	1 /	A: 18.1	Good	C: Fair		C.1.2
Prunus sp.				Е	2	3	;	ı	R: 2.4		S: Good	Grows from raised planter approximately 400mm above	10 to 20
				S	2	3	;				B: Fair	surface level.	yrs
				W	1	3	1						
9												Estimated Me	asurements
Mountain Ash	4	1	240	N	2	2	M		A: 26.1	Fair	C: Fair		C.1.2
Sorbus aucuparia				Е	2	2		ı	R: 2.88		S: Ivy	Ivy obscures inspection of base, lower stem and primary	10 to 20
				S	2	2					B: Fair	branch unions; grows from raised planter approximately	yrs
				W	2	2	!					400mm above surface level.	
10												Estimated Me	asurements
Common Ash	6	3	228 (l	Eq) N	3	2	. Y		A: 23.6	Good	C: Good		C.1.2
Fraxinus excelsior				Е	3	2		F	R: 2.74		S: Fair	Three codominant stems from base with included bark at stem	10 to 20
				S	3	2					B: Poor	union, grows from raised planter approximately 500mm above	yrs
				W	3	2	!					surface level.	
11												Estimated Me	asurements
Common Ash	6	2	283 (I	Eq) N	3	2	. Y		A: 36.2	Good	C: Good		C.1.2
Fraxinus excelsior				Е	3	2		F	R: 3.39		S: Fair	Two codominant stems	10 to 20
				S	2	2					B: Poor	Two Codoffiliant Steris	yrs
				W	2	2							
12												Estimated Me	asurements
Common Ash	7	7	238 (1	Eq) N	4	2	. Y		A: 25.7	Good	C: Fair		C.1
Fraxinus excelsior				Е	4	2		ı	R: 2.86		S: Fair	Seven codominant stems from base with included bark at stem	10 to 20
				S	3	2					B: Poor	unions.	yrs
				W	2	2						4.1.5.1.5.	·
13												Estimated Me	asurements
Austrian Pine	4	1	340	N	2.5	1	SM	1 /	A: 52.3	Good	C: Good		C.2
Pinus nigra ssp. Nigra				Е	2.5	1		ı	R: 4.08		S: Good	Troo has been tenned to current height for line of site to	10 to 20
				S	2.5	1					B: Good	Tree has been topped to current height for line of site to signage.	yrs
				W	2.5	1							
9	N Newly plant	ed		ly Mature	Э		Cond	ditio			Sto	ems: Ø Diameter	
	Y Young		M Mat						S	Stem		(Eq) Equivalent stem diameter using BS5837:2012 def	finition
5	SM Semi-matur	е	OM Ove	er Mature	)				В	Basal area	a		

Tree and Tag No	Hgl	ht	S	tems		Crow		4_	RP	Phys	Structura	Preliminary Recommendations	Cat
Species	(m		No	Ø (mm)	Spre (m		Clear (m)	Age	A (m²) R (m)	Condition		••	ERC
14												Estimated Mea	surements
Goat Willow	6	5	1	300	N	2.5	2	М	A: 40.7	Fair	C: Fair		C.1.2
Salix caprea					Е	3	4		R: 3.59		S: Fair	Ivy obscures inspection of base, lower stem and primary	10 to 20
					S	2.5	4				B: Fair	branch unions; grows as part of a group of 4 trees.	yrs
					W	1.5	4						
15													
Scots Pine	4	1	1	250	Ν	2	1	SM	A: 28.3	Fair	C: Fair		C.1.2
Pinus sylvestris					Ε	2	1		R: 3		S: Ivy	Ivy obscures inspection of base; lower stem and primary	10 to 20
					S	2	1				B: Fair	branch unions; foliage density low; grows as part of a group of	yrs
					W	2	1					4 trees.	
16												Estimated Mea	asurements
Scots Pine	5	5	1	300	N	2	1	SM	A: 40.7	Fair	C: Fair		C.1.2
Pinus sylvestris					Е	2	1		R: 3.59		S: Ivy	Ivy obscures inspection of base; lower stem and primary	10 to 20
					S	2	1				B: Fair	branch unions; foliage density low; grows as part of a group of	yrs
					W	2	1					4 trees.	
17												Estimated Mea	surements
Scots Pine	5	5	1	420	N	2	1	SM	A: 79.8	Fair	C: Fair		C.1.2
Pinus sylvestris					Ε	2	1		R: 5.03		S: Ivy	Ivy obscures inspection of base; lower stem and primary	10 to 20
					S	2	1				B: Fair	branch unions; foliage density low; grows as part of a group of	yrs
					W	2	1					4 trees.	
18													
Common or Black Elder	5	5	3	346 (Eq	) N	1.5	4	М	A: 54.3	Good	C: Fair		C.1.2
Sambucas nigra					Е	3	1		R: 4.15		S: Fair	Grows from edge of pavement; three codominant stems from	10 to 20
					S	3	1				B: Good	base typical of the species; asymmetrical crown distribution	yrs
					W	3	1					due to regular pruning on north side.	
19												Estimated Mea	asurements
Sycamore	7	7	1	320	Ν	4	4	SM	A: 46.3	Good	C: Good		B.1.2
Acer pseudoplatanus					Е	4	1		R: 3.83		S: Good	Open grown tree with no significant defects notes.	>40 yrs
					S	4	1				B: Good	open grown are wan no significant defects notes.	,,,,
					W	4	1						
Age Classifications:	N Newly p	olante	d l	EM Early	Mature	e		Condi	tion: C	C Crown		Stems: Ø Diameter	
	Y Young			M Matur	re				S	Stem		(Eq) Equivalent stem diameter using BS5837:2012 defi	nition
	SM Semi-m	nature	(	OM Over	Mature	Э			Е	Basal are	а		

Tree and Tag No		S	tems	Cr	own		RP			Preliminary Recommendations	
Species	Hght (m)	No	Ø (mm)	Spread Clear (m)		Age	A (m²) R (m)	Phys Condition	Structural Condition	Survey Comment	Cat ERC
20										Estimated Mo	easurement
Sycamore	7	1	450	N	5	2 SM	A: 91.6	Good	C: Good		B.1.2
Acer pseudoplatanus				Е	5	2	R: 5.39		S: Good	Three co-dominant stems from 0.5m; ground level appears to	20 to 40
				S	5	2			B: Fair	have been raised with no root flare obvious.	yrs
				W	5	2					
21											
Norway Maple	8	1	230	N	5	2 SM	A: 23.9	Good	C: Good		B.1.2
Acer platanoides				Е	4	2	R: 2.75		S: Good	Asymmetrical crown distribution due to proximity of companion	20 to 40
				S	5	2			B: Fair	tree; ground level appears to have been raised with no root	yrs
				W	2	2				flare obvious.	

Ì	Age Classifications:	N	Newly planted	EM	Early Mature	Condition:	С	Crown	Stems:	Ø	Diameter
		Υ	Young	М	Mature		S	Stem		(Eq)	Equivalent stem diameter using BS5837:2012 definition
		SM	Semi-mature	OM	Over Mature		В	Basal area			