

BS5837:2012 Tree Survey

Arbtech Consulting Ltd.

Client: Site Plan UK
 Project: Shallcross Road, Whaley Bridge, Derbyshire, SK23 7BZ
 Survey Date: 29/07/2016
 Surveyor: Alan Thompson



Unit 3
 Well House Barns
 Chester Road
 Chester
 CH4 0DH
 Phone: 01244 66 11 70

Tree and Tag No Species		Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations			Cat ERC
			No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment			
G1												Estimated Measurements		
A Group	10	1	300	N	5	3	M	A: 40.7	Good	C: Good				B.1.2
- -				E	5	3		R: 3.59		S: Good		Linear boundary group is comprised of approximately 40 trees. Group is predominantly Hawthorn, Elder and Rowan interspersed with occasional Mature Oak and Sycamore. Measurements given are estimated averages for the group.		>40 yrs
				S	5	3				B: Good				
				W	5	3								
G2												Estimated Measurements		
A Group	8	1	350	N	4.5	1	M	A: 55.4	Good	C: Good				B.2
- -				E	4.5	1		R: 4.19		S: Good		Group is comprised of approximately 80 small to medium sized trees. Species are: Goat willow, Hazel, Holly, Rowan, and Elder. Measurements given are estimated averages for the group.		>40 yrs
				S	4.5	1				B: Good				
				W	4.5	1								
G3												Estimated Measurements		
A Group	12	1	400	N	5	2	SM	A: 72.4	Good	C: Good				B.2
- -				E	5	2		R: 4.8		S: Good		Boundary group is comprised of 21 trees. Predominantly Ash trees interspersed with occasional, Silver birch, Sycamore, Hawthorn and Alder. Measurements given are estimated averages for the group.		>40 yrs
				S	5	2				B: Good				
				W	5	2								
G4														
A Group	14	1	500	N	6.5	2	M	A: 113.1		C: Good				B.1
- -				E	6.5	2		R: 6		S: Good		Group is comprised of 7 mature trees. Species are: Ash, Oak and Alder. Understory is comprised of Holly and Hawthorn. Measurements given are estimated averages for the group.		>40 yrs
				S	6.5	2				B: Good				
				W	6.5	2								
Age Classifications:		N Y SM	Newly planted Young Semi-mature	EM M OM	Early Mature Mature Over Mature	Condition:		C S B	Crown Stem Basal area	Stems:		Ø (Eq)	Diameter Equivalent stem diameter using BS5837:2012 definition	

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations			Cat ERC
		No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment			
G5												Estimated Measurements	
A Group	3	6	73	(Eq)	N	2.5	0.3	SM	A: 2.4	Good	C: Good		C.1.2
- -					E	2.5	0.3		R: 0.87		S: Good	Group of shrubs/small trees is comprised of predominantly Blackthorn interspersed with Hawthorn and Elder. Measurements given are estimated averages for the group.	20 to 40 yrs
					S	2.5	0.3				B: Good		
					W	2.5	0.3						
G6													
A Group	8.5	1	250		N	3.5	3	Y	A: 28.3	Good	C: Good		C.1.2
- -					E	3.5	3		R: 3		S: Good	Group is comprised of 11 early mature Ash trees and 1 early mature Sycamore. Measurements given are estimated averages for the group.	>40 yrs
					S	3.5	3				B: Good		
					W	3.5	3						
G7													
Common Ash	15	1	380		N	5	4	SM	A: 65.3	Decline	C: Fair		C.1
<i>Fraxinus excelsior</i>					E	5	4		R: 4.55		S: Good	Group is comprised of 5 early mature Ash trees. Die back was observed in all 5 tree's crowns. Monitor trees for signs of Ash die back infection. Measurements given are estimated averages for the group.	10 to 20 yrs
					S	5	4				B: Good		
					W	5	4						
G8													Estimated Measurements
A Group	6	6	196	(Eq)	N	4	1	SM	A: 17.4	Good	C: Good		C.1.2
- -					E	4	1		R: 2.35		S: Good	Group is comprised of approximately 30 semi mature trees. Species are predominantly Holly and Hawthorn interspersed with occasional young Ash trees. Measurements given are estimated averages for the group.	>40 yrs
					S	4	1				B: Good		
					W	4	1						
G9													Estimated Measurements
A Group	7	1	260		N	4.5	1	SM	A: 30.6	Good	C: Good		C.1.2
- -					E	4.5	1		R: 3.12		S: Good	Group is comprised of approximately 20 semi mature trees. Species are: Holly, Hawthorn and Rowan, interspersed with young Sycamore. Measurements given are estimated averages for the group.	>40 yrs
					S	4.5	1				B: Good		
					W	4.5	1						
Age Classifications:	N	Newly planted	EM	Early Mature				Condition:	C	Crown	Stems:	Ø	Diameter
	Y	Young	M	Mature					S	Stem		(Eq)	Equivalent stem diameter using BS5837:2012 definition
	SM	Semi-mature	OM	Over Mature					B	Basal area			

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations			Cat ERC
		No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment			
G10													
A Group	4	6	98	(Eq)	N	3	0.5	SM	A: 4.3	Good	C: Good		C.1
- -					E	3	0.5		R: 1.16		S: Good	Group is comprised of approximately 15 shrubs/small trees. Species are: Blackthorn, Hawthorn and Elder intersperced with young Sycamore and Ash. Measurements given are estimated averages for the group.	20 to 40 yrs
					S	3	0.5				B: Good		
					W	3	0.5						
G11													
												Estimated Measurements	
A Group	16	1	550		N	7	4	M	A: 136.9	Good	C: Good		B.1.2
- -					E	7	4		R: 6.6		S: Good	Linear boundary group is comprised of approximately 80 trees. Predominantly semi mature and mature Ash trees. Intersperced with Sycamore and Rowan. Understory is comprised of Holly and Hawthorn with occasional Elder. Measurements given are estimated averages for the group.	>40 yrs
					S	7	4				B: Good		
					W	7	4						
H1													
Leyland Cypress	1.5	1	60		N	0.5	0.2	Y	A: 1.6	Good	C: Good		C.1.2
<i>X Cupressocyparis leylandii</i>					E	0.5	0.2		R: 0.71		S: Good	Well maintained Leyland cypress hedgerow located on neighbouring land. Measurements given are estimated averages for the group.	>40 yrs
					S	0.5	0.2				B: Good		
					W	0.5	0.2						
H2													
												Estimated Measurements	
A Hedgerow	1.5	1	60		N	0.5	0.2	SM	A: 1.6	Good	C: Good		C.1.2
- Unknown					E	0.5	0.2		R: 0.71		S: Good	Fragmented hedgerow is comprised of predominantly Hawthorn with occasional section of Privet. Measurements given are estimated averages for the hedgerow.	>40 yrs
					S	0.5	0.2				B: Good		
					W	0.5	0.2						
T1													
Common Ash	7	4	456	(Eq)	N	4.5	2	Y	A: 93.9	Good	C: Fair		C.1
<i>Fraxinus excelsior</i>					E	5	2		R: 5.46		S: Good	Slight apical die back observed in tree's crown. Tree of limited amenity value.	20 to 40 yrs
					S	4.5	2				B: Good		
					W	5	2						
Age Classifications:	N	Newly planted	EM	Early Mature				Condition:	C	Crown	Stems:	Ø	Diameter
	Y	Young	M	Mature					S	Stem		(Eq)	Equivalent stem diameter using BS5837:2012 definition
	SM	Semi-mature	OM	Over Mature					B	Basal area			

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations			Cat ERC
		No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment			
T2													
Common Ash <i>Fraxinus excelsior</i>	6.5	1	150	N	2.5	3.5	Y	A: 10.2 R: 1.8	Good	C: Fair S: Good B: Good	Tree's crown is partially suppressed by neighbouring trees to the north.		C.1 >40 yrs
T3													
Common or Black Elder <i>Sambucas nigra</i>	4	4	345 (Eq)	N	3	1	M	A: 53.8 R: 4.13	Fair	C: Fair S: Ivy B: Fair	Thick Ivy is spreading throughout tree's stem into crown and is beginning to smother tree's crown.		C.1 10 to 20 yrs
T4													
Common Ash <i>Fraxinus excelsior</i>	12	7	476 (Eq)	N	5.5	4	SM	A: 102.6 R: 5.71	Good	C: Good S: Good B: Good			B.1 >40 yrs
T5													
Common Ash <i>Fraxinus excelsior</i>	11.5	3	366 (Eq)	N	3	6	SM	A: 60.5 R: 4.38	Good	C: Fair S: Good B: Good	Tree's crown is unbalanced due to being partially suppressed by neighbouring trees.		C.1 20 to 40 yrs
T6													
Common Ash <i>Fraxinus excelsior</i>	19.5	4	854 (Eq)	N	8.5	3	M	A: 330.2 R: 10.25	Good	C: Good S: Good B: Good	Naturally occurring minor deadwood observed in tree's crown.		A.2 >40 yrs
T7													
Common Ash <i>Fraxinus excelsior</i>	14.5	2	528 (Eq)	N	8	2	SM	A: 126 R: 6.33	Good	C: Good S: Good B: Good			B.1 >40 yrs
Age Classifications:	N Y SM	Newly planted Young Semi-mature	EM M OM	Early Mature Mature Over Mature	Condition:			C S B	Crown Stem Basal area	Stems:	Ø (Eq)	Diameter Equivalent stem diameter using BS5837:2012 definition	

Tree and Tag No Species		Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations			Cat ERC
			No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment			
T8												Estimated Measurements		
Common Ash <i>Fraxinus excelsior</i>		18.5	1	900	N	9.5	5	M	A: 366.5 R: 10.8	Good	C: Good S: Good B: Good	Offsite tree on neighbouring land could not be fully inspected and the stem diameter measurement given is an estimate.		A.1 >40 yrs
T9												Estimated Measurements		
Lawson Cypress 'Allumii' <i>Chamaecyparis lawsoniana 'Allumii'</i>		5	4	181 (Eq)	N	2.5	1	SM	A: 14.7 R: 2.16	Good	C: Good S: Good B: Good	Offsite tree on neighbouring land could not be fully inspected and the stem diameter measurement given is an estimate. Tree of limited amenity value.		C.1 >40 yrs
T10														
Common Oak <i>Quercus robur</i>		12.5	1	760	N	9	3	M	A: 261.3 R: 9.11	Good	C: Fair S: Good B: Good	Slight apical die back observed in tree's crown.		B.1 >40 yrs
T11														
Common Alder <i>Alnus glutinosa</i>		12	2	740 (Eq)	N	6.5	4	M	A: 247.8 R: 8.88	Good	C: Fair S: Fair B: Good	Tree's main stem has previously snapped out at 3m. Regrowth is mainly from secondary stem.		C.1 20 to 40 yrs
T12														
Common Oak <i>Quercus robur</i>		12.5	1	670	N	8	4	M	A: 203.1 R: 8.04	Good	C: Good S: Good B: Good			B.1 >40 yrs
T13														
Common Oak <i>Quercus robur</i>		11	2	792 (Eq)	N	8	3	M	A: 283.9 R: 9.5	Fair	C: Fair S: Good B: Good	Slight apical die back observed in tree's crown. Stress indicator of epicormic shoots observed throughout tree's crown.		B.1 20 to 40 yrs
Age Classifications:		N Y SM	Newly planted Young Semi-mature	EM M OM	Early Mature Mature Over Mature	Condition:		C S B	Crown Stem Basal area	Stems:		Ø (Eq)	Diameter Equivalent stem diameter using BS5837:2012 definition	

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations			Cat ERC	
		No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment				
T14											Estimated Measurements			
Goat Willow <i>Salix caprea</i>	7.5	1	500	N	7	1	M	A: 113.1 R: 6	Good	C: Good S: Ivy B: Good	Boundary hedgerow tree could not be fully inspected and the stem diameter measurement given is an estimate. Thick Ivy is spreading throughout tree's stem into crown.			B.2 20 to 40 yrs
T15														
Common Oak <i>Quercus robur</i>	12.5	1	710	N	7	4	M	A: 228.1 R: 8.52	Good	C: Good S: Good B: Good	Naturally occurring minor deadwood observed in tree's crown.			B.1 >40 yrs
T16														
Common Oak <i>Quercus robur</i>	14	1	860	N	9.5	2	M	A: 334.6 R: 10.32	Good	C: Good S: Good B: Good	Naturally occurring minor deadwood observed in tree's crown.			A.1 >40 yrs
T17														
Common Oak <i>Quercus robur</i>	14	1	810	N	7.5	4	M	A: 296.9 R: 9.72	Good	C: Good S: Good B: Good	Naturally occurring minor deadwood observed in tree's crown.			B.1.2 >40 yrs
T18														
Common Oak <i>Quercus robur</i>	16.5	1	710	N	9	3	M	A: 228.1 R: 8.52	Good	C: Good S: Good B: Good				A.1 >40 yrs
T19														
Common Oak <i>Quercus robur</i>	12.5	1	560	N	7.5	3	M	A: 141.9 R: 6.72	Good	C: Good S: Good B: Good				B.1 >40 yrs
Age Classifications:	N Y SM	Newly planted Young Semi-mature	EM M OM	Early Mature Mature Over Mature	Condition:		C S B	Crown Stem Basal area	Stems:		Ø (Eq)	Diameter Equivalent stem diameter using BS5837:2012 definition		

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations			Cat ERC
		No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment			
T20													
Common Hawthorn <i>Crataegus monogyna</i>	5	1	230	N	2.5	0.2	SM	A: 23.9 R: 2.75	Good	C: Good S: Good B: Good	Tree of limited amenity value.		C.1 20 to 40 yrs
T21													
Common Alder <i>Alnus glutinosa</i>	4.5	1	610	N	5	2	M	A: 168.4 R: 7.32	Fair	C: Poor S: Poor B: Poor	Tree's stem is 70% hollow. Tree has suffered extensive fire damage from vandalism. Tree's main stem has previously snapped out at 5m.		U 10 to 20 yrs
T22													
Common Hawthorn <i>Crataegus monogyna</i>	4	6	171 (Eq)	N	3	0.5	M	A: 13.3 R: 2.05	Good	C: Good S: Good B: Good	Tree of limited amenity value.		C.1 20 to 40 yrs
T23													
Common Ash <i>Fraxinus excelsior</i>	13.5	2	523 (Eq)	N	6.5	2	SM	A: 124 R: 6.28	Good	C: Good S: Good B: Good			B.1 >40 yrs
T24													
Common Ash <i>Fraxinus excelsior</i>	4.5	2	149 (Eq)	N	2.5	2	Y	A: 10 R: 1.78	Good	C: Good S: Good B: Good	Trees of limited amenity value.		C.1 >40 yrs
T25													
Sycamore <i>Acer pseudoplatanus</i>	14	1	450	N	5	5	SM	A: 91.6 R: 5.39	Good	C: Good S: Good B: Good			B.1 >40 yrs
Age Classifications:	N Y SM	Newly planted Young Semi-mature	EM M OM	Early Mature Mature Over Mature	Condition:			C S B	Crown Stem Basal area	Stems:	Ø (Eq)	Diameter Equivalent stem diameter using BS5837:2012 definition	

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations			Cat ERC
		No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment			
T26													
Sycamore <i>Acer pseudoplatanus</i>	16	1	410	N	5.5	5	SM	A: 76.1 R: 4.92	Good	C: Good S: Good B: Good			B.1 >40 yrs
T27													
Goat Willow <i>Salix caprea</i>	9	2	488 (Eq)	N	6	3	M	A: 107.7 R: 5.85	Good	C: Good S: Good B: Good			B.1 20 to 40 yrs
T28													
Sycamore <i>Acer pseudoplatanus</i>	11	1	260	N	4	1.5	Y	A: 30.6 R: 3.12	Good	C: Good S: Good B: Good	Tree of limited amenity value.		C.1 >40 yrs
T29													
Common Ash <i>Fraxinus excelsior</i>	10	2	295 (Eq)	N	5	5	Y	A: 39.5 R: 3.54	Fair	C: Fair S: Good B: Good	10% die back observed in tree's crown. Monitor condition.		C.1 20 to 40 yrs
T30													
Common Ash <i>Fraxinus excelsior</i>	7	1	130	N	2.5	1.5	Y	A: 7.6 R: 1.55	Good	C: Good S: Good B: Good	Tree of limited amenity value.		C.1 >40 yrs
T31													
Common Oak <i>Quercus robur</i>	6	1	80	N	1.5	1	Y	A: 2.9 R: 0.96	Good	C: Good S: Good B: Good			C.1 >40 yrs
Age Classifications:	N	Newly planted	EM	Early Mature	Condition:			C	Crown	Stems:	Ø	Diameter	
	Y	Young	M	Mature				S	Stem		(Eq)	Equivalent stem diameter using BS5837:2012 definition	
	SM	Semi-mature	OM	Over Mature				B	Basal area				

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		No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment			
T32													
Common Hawthorn <i>Crataegus monogyna</i>	3.5	1	170	N	3	0.5	SM	A: 13.1 R: 2.04	Good	C: Good S: Good B: Good	Tree of limited amenity value.	C.1 20 to 40 yrs	
				E	3	0.5							
				S	3	0.5							
				W	3	0.5							
T33													
Common Hawthorn <i>Crataegus monogyna</i>	5.5	2	311 (Eq)	N	3	2	M	A: 43.9 R: 3.73	Good	C: Good S: Good B: Good	Tree of limited amenity value.	C.1 20 to 40 yrs	
				E	3	2							
				S	3	2							
				W	3	2							
T34													
Sycamore <i>Acer pseudoplatanus</i>	11	1	610	N	6	3	M	A: 168.4 R: 7.32	Good	C: Fair S: Good B: Good	Tree's crown is heavily weighted to the west due to being pruned to avoid overhead power lines to the east.	B.1 >40 yrs	
				E	3	10							
				S	4	4							
				W	9	4							
T35													
Common Ash <i>Fraxinus excelsior</i>	14	1	570	N	6.5	4	SM	A: 147 R: 6.84	Fair	C: Fair S: Ivy B: Good	5% die back observed in tree's crown. Thick Ivy is spreading throughout tree's stem into crown.	B.1 20 to 40 yrs	
				E	6.5	4							
				S	6.5	4							
				W	6.5	4							
T36													
Common Ash <i>Fraxinus excelsior</i>	15	1	480	N	7.5	5	SM	A: 104.2 R: 5.75	Good	C: Good S: Good B: Good		B.1 >40 yrs	
				E	7.5	5							
				S	6	7							
				W	7.5	5							
T37													
Common Oak <i>Quercus robur</i>	16.5	1	1020	N	7	6	M	A: 470.7 R: 12.24	Good	C: Good S: Good B: Good	Naturally occurring minor deadwood observed in tree's crown.	A.1 >40 yrs	
				E	9.5	3							
				S	8	3							
				W	9.5	4							
Age Classifications:	N Y SM	Newly planted Young Semi-mature	EM M OM	Early Mature Mature Over Mature			Condition:	C S B	Crown Stem Basal area	Stems:	Ø (Eq)	Diameter Equivalent stem diameter using BS5837:2012 definition	