

BS5837:2012 Tree Survey

Arbtech Consulting Ltd.

Client: Fisher German LLP
 Project: Land at Wrexham Road, Abermorddu, Flintshire.
 Survey Date: 20/07/2016
 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 (m ²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
		No	Ø (mm)	Spread (m)	Clear (m)						
Estimated Measurements											
G1											
A Group	4	1	130	N	2.5	0.5	Y	A: 7.6	Good	C: Good	C.1.2
--				E	2.5	0.5		R: 1.55		S: Good	>40 yrs
				S	2.5	0.5				B: Good	
				W	2.5	0.5					Linear boundary screening group is comprised of Hazel, Wild cherry, Rowan, Ash and Elder. Measurements given are estimated averages for the group.
Estimated Measurements											
G2											
A Group	7.5	10	221 (Eq)	N	5	1	M	A: 22.2	Good	C: Good	B.1.2.3
--				E	5	1		R: 2.65		S: Good	>40 yrs
				S	5	1				B: Good	
				W	5	1					Group is comprised of approximately 25 mature Hazel coppices, interspersed with occasional Hawthorn, Holly and Elder. Measurements given are estimated averages for the group.
Estimated Measurements											
G3											
A Group	10	1	400	N	4.5	3	M	A: 72.4	Good	C: Good	B.2
--				E	4.5	3		R: 4.8		S: Good	>40 yrs
				S	4.5	3				B: Good	
				W	4.5	3					Group is comprised of 12 Alder and Sycamore trees. Understorey is comprised of Holly, Hawthorn, Hazel and Elder. Measurements given are estimated averages for the group.
Estimated Measurements											
G4											
A Group	6	6	171 (Eq)	N	4	0.5	SM	A: 13.3	Good	C: Good	B.2
--				E	4	0.5		R: 2.05		S: Good	>40 yrs
				S	4	0.5				B: Good	
				W	4	0.5					Large group is comprised of Goat willow and Hazel interspersed with Hawthorn, Elder and Occasional Silver birch. Measurements given are estimated averages for the group.

Age Classifications:	N Newly planted	EM Early Mature									
	Y Young	M Mature									
	SM Semi-mature	OM Over Mature									
			Condition:	C Crown	Stems:	Ø Diameter					
				S Stem		(Eq) Equivalent stem diameter using BS5837:2012 definition					
				B Basal area							

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m ²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC	
		No	Ø (mm)	Spread (m)	Clear (m)							
Estimated Measurements												
H1 A Hedgerow - <i>Unknown</i>	2	1	80	N	0.7	0.2	M	A: 2.9 R: 0.96	Good	C: Good S: Good B: Good	Fragmented, partially lapsed Hawthorn hedgerow. Measurements given are estimated averages for the group.	C.1.2 20 to 40 yrs
Estimated Measurements												
H2 A Hedgerow - <i>Unknown</i>	2	1	80	N	0.7	0.1	M	A: 2.9 R: 0.96	Good	C: Good S: Good B: Good	Well maintained hedgerow. Predominantly Hazel interspersed with Hawthorn and Holly. Measurements given are estimated averages for the group.	C.1.2 >40 yrs
Estimated Measurements												
T1 Goat Willow <i>Salix caprea</i>	5	6	171 (Eq)	N	3	0.5		A: 13.3 R: 2.05	Good	C: Good S: Good B: Good	Tree of limited amenity value.	C.1 >40 yrs
Estimated Measurements												
T2 Goat Willow <i>Salix caprea</i>	4.5	7	132 (Eq)	N	2	0.5	Y	A: 7.9 R: 1.58	Good	C: Good S: Good B: Good	Tree of limited amenity value.	C.1 >40 yrs
Estimated Measurements												
T3 Common Alder <i>Alnus glutinosa</i>	8.5	3	386 (Eq)	N	3	2	SM	A: 67.4 R: 4.63	Good	C: Good S: Good B: Good		B.1 >40 yrs
Estimated Measurements												
T4 Common Alder <i>Alnus glutinosa</i>	7	2	163 (Eq)	N	4	1.5	Y	A: 12 R: 1.95	Good	C: Fair S: Good B: Good	Tree's crown is suppressed to the south by T3.	C.1 >40 yrs
Estimated Measurements												
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 (m ²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC	
		No	Ø (mm)	Spread (m)	Clear (m)							
T5												
Common Oak <i>Quercus robur</i>	3	1	90	N	0.5	1	Y	A: 3.7 R: 1.08	Fair	C: Fair S: Good B: Good	Tree of limited amenity value. Tree's crown is suppressed by T3.	C.1 >40 yrs
				E	1.5	1						
				S	2	1						
				W	1.5	1						
T6												
Common Alder <i>Alnus glutinosa</i>	3	6	49 (Eq)	N	1.5	0.5	Y	A: 1.1 R: 0.59	Good	C: Good S: Good B: Good	Tree of limited amenity value.	C.1 >40 yrs
				E	1.5	0.5						
				S	1.5	0.5						
				W	1.5	0.5						
T7												
Common Ash <i>Fraxinus excelsior</i>	6	1	240	N	3.5	2	Y	A: 26.1 R: 2.88	Good	C: Good S: Fair B: Good	Tree of limited amenity value. Tree's stem has grown through and included adjacent chainlink fencing.	C.1 >40 yrs
				E	3.5	2						
				S	3.5	2						
				W	3.5	2						
T8												
Common Ash <i>Fraxinus excelsior</i>	10	1	250	N	3	2	Y	A: 28.3 R: 3	Good	C: Good S: Good B: Good	Tree of limited amenity value.	C.1 >40 yrs
				E	3	2						
				S	3	2						
				W	1	4						
T9												
Common Ash <i>Fraxinus excelsior</i>	8.5	1	240	N	3	2	Y	A: 26.1 R: 2.88	Good	C: Good S: Good B: Good	Tree of limited amenity.	C.1 >40 yrs
				E	1	4						
				S	3	2						
				W	3	2						
T10												
Lombardy Poplar <i>Populus nigra 'Italica'</i>	22	1	550	N	3	3	M	A: 136.9 R: 6.6	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.	B.1 >40 yrs
				E	3	3						
				S	3	3						
				W	3	3						
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 (m ²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC	
		No	Ø (mm)	Spread (m)	Clear (m)							
Estimated Measurements												
T11 Hybrid Black Poplar <i>Populus x canadensis</i>	20	1	800	N E S W	10 8 6 7	5 5 5 5	M	A: 289.6 R: 9.6	Fair	C: Good S: Fair B: Fair	20 to 40 yrs	
T12 Western Balsam Poplar <i>Populus trichocarpa</i>	20	1	600	N E S W	9 8 7 8	3 3 3 3	M	A: 162.9 R: 7.2	Good	C: Good S: Good B: Good	>40 yrs	
T13 Common Ash <i>Fraxinus excelsior</i>	14	1	580	N E S W	7 7 7 7	3 4 3 3	M	A: 152.2 R: 6.96	Good	C: Good S: Good B: Good	>40 yrs	
T14 Common Oak <i>Quercus robur</i>	12.5	1	630	N E S W	7.5 7.5 7.5 7.5	3 3 3 3	SM	A: 179.6 R: 7.56	Good	C: Good S: Good B: Good	>40 yrs	
T15 Common Ash <i>Fraxinus excelsior</i>	22	1	890	N E S W	9.5 9 9 8.5	3 3 3 4	M	A: 358.4 R: 10.68	Fair	C: Good S: Ivy B: Fair	20 to 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				

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m ²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
		No	Ø (mm)	Spread (m)	Clear (m)						
T16											
Common Ash <i>Fraxinus excelsior</i>	22	1	1100	N 11 E 11.5 S 10 W 10.5	3.5 3.5 3.5 3.5	M	A: 547.5 R: 13.2	Good	C: Good S: Good B: Good	Boundary tree could not be fully inspected and the stem diameter measurement given is an estimate. Inonotus hispidus fruiting body observed in major limb in tree's crown (south) at 7m.	A.1 >40 yrs
T17											
Common Ash <i>Fraxinus excelsior</i>	20	1	950	N 10 E 10 S 6.6 W 9	4 3 6 3	M	A: 408.3 R: 11.4	Fair	C: Good S: Poor B: Fair	Tree's stem has previously failed at point of tight stem union due to included bark. Resulted in major tear wound with major decay running from base to 3.7m. Tree is laying down good amount of reactionary cambium growth around tear wound. Tree's condition should be monitored on a biannual	A.3 >40 yrs
T18											
Sycamore <i>Acer pseudoplatanus</i>	15	2	648 (Eq)	N 8.5 E 7.5 S 7.5 W 7.5	4 5 5 4	SM	A: 190.1 R: 7.77	Good	C: Good S: Good B: Fair	Tight stem union observed at tree's base.	B.1 >40 yrs
T19											
Sycamore <i>Acer pseudoplatanus</i>	14.5	1	450	N 7 E 7 S 7 W 7	5 4 5 4	SM	A: 91.6 R: 5.39	Good	C: Good S: Good B: Good		B.1 >40 yrs
T20											
Common Ash <i>Fraxinus excelsior</i>	12	4	440 (Eq)	N 6 E 5 S 5 W 5	5 4 5 4	SM	A: 87.6 R: 5.28	Good	C: Good S: Good B: Good		B.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			

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m ²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC	
		No	Ø (mm)	Spread (m)	Clear (m)							
T21												
Sycamore <i>Acer pseudoplatanus</i>	15.5	1	480	N	6	4	SM	A: 104.2 R: 5.75	Good	C: Good S: Good B: Good	B.1 >40 yrs	
				E	5.5	4						
				S	5.5	4						
				W	4	8						
T22												
Sycamore <i>Acer pseudoplatanus</i>	15	1	570	N	6	4	SM	A: 147 R: 6.84	Good	C: Good S: Good B: Good	B.1 >40 yrs	
				E	4	8						
				S	6	4						
				W	6	5						
T23												
Common Alder <i>Alnus glutinosa</i>	12.5	2	411 (Eq)	N	5.5	4	M	A: 76.5 R: 4.93	Good	C: Good S: Good B: Good	B.1 20 to 40 yrs	
				E	5.5	4						
				S	5	4						
				W	4	4						
T24												
Common Alder <i>Alnus glutinosa</i>	12	1	430	N	3.5	2	M	A: 83.7 R: 5.16	Poor	C: Fair S: Fair B: Poor	C.1 10 to 20 yrs	
				E	8	2				Tree has partially collapsed and has come to rest on T23. Tree is recommended for removal.		
				S	3.5	2						
				W	1	10						
T25												
Common Ash <i>Fraxinus excelsior</i>	13	1	260	N	4.5	8	Y	A: 30.6 R: 3.12	Good	C: Good S: Good B: Good	B.1 >40 yrs	
				E	4.5	7						
				S	4.5	8						
				W	4.5	8						
T26												
Common Alder <i>Alnus glutinosa</i>	13	1	240	N	4	5	SM	A: 26.1 R: 2.88	Good	C: Good S: Good B: Good	C.1 20 to 40 yrs	
				E	4	4				Tree of limited amenity value.		
				S	4	5						
				W	4	5						
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
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Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m ²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC	
		No	Ø (mm)	Spread (m)	Clear (m)							
T27												
Common Oak <i>Quercus robur</i>	21	1	1110	N	12	2	M	A: 557.5 R: 13.32	Good	C: Good S: Good B: Good	Naturally occurring (shaded out) deadwood observed in tree's crown.	A.1 >40 yrs
T28												
Sycamore <i>Acer pseudoplatanus</i>	16	1	840	N	7	4	M	A: 319.2 R: 10.07	Good	C: Good S: Good B: Good		B.1 >40 yrs
T29												
Sycamore <i>Acer pseudoplatanus</i>	14.5	2	601 (Eq)	N	8	3	M	A: 163.7 R: 7.21	Good	C: Good S: Good B: Good	Thick Ivy is spreading throughout tree's stem into crown.	B.1 >40 yrs
T30												
Common Ash <i>Fraxinus excelsior</i>	5.5	4	154 (Eq)	N	2.5	1.5	Y	A: 10.7 R: 1.84	Good	C: Good S: Good B: Good	Tree of limited amenity value.	C.1 >40 yrs
T31												
Sycamore <i>Acer pseudoplatanus</i>	19	1	880	N	10	3	M	A: 350.4 R: 10.56	Good	C: Good S: Good B: Good		B.1 >40 yrs
T32												
Sycamore <i>Acer pseudoplatanus</i>	11	2	601 (Eq)	N	7.5	4	SM	A: 163.5 R: 7.21	Good	C: Good S: Good B: Good	Thick Ivy is spreading throughout tree's stem into crown.	B.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				

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m ²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC		
		No	Ø (mm)	Spread (m)	Clear (m)								
T33 Sycamore <i>Acer pseudoplatanus</i>	15.5	1	490	N	6	3	SM	A: 108.6 R: 5.87	Good	C: Good S: Good B: Good	B.1 >40 yrs		
T34 Common Oak <i>Quercus robur</i>	14	1	570	N	7	4	SM	A: 147 R: 6.84	Good	C: Good S: Good B: Good	B.1 >40 yrs		
T35 Sycamore <i>Acer pseudoplatanus</i>	13.5	1	590	N	7	2	M	A: 157.5 R: 7.08	Good	C: Good S: Good B: Good	B.1 >40 yrs		
T36 Common Ash <i>Fraxinus excelsior</i>	20	1	1140	N	11	4	M	A: 588 R: 13.68	Good	C: Good S: Good B: Good	A.1 >40 yrs		
T37 Common Alder <i>Alnus glutinosa</i>	5.5	2	210 (Eq)	N	2.5	1.5	Y	A: 20 R: 2.52	Good	C: Good S: Good B: Good	Tree of limited amenity value. C.1 >40 yrs		
T38 Common Alder <i>Alnus glutinosa</i>	15.5	2	587 (Eq)	N	5	7	M	A: 155.9 R: 7.04	Good	C: Good S: Good B: Fair	Included bark observed at tree's base at point of tight stem union. B.1 20 to 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				

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m ²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC		
		No	Ø (mm)	Spread (m)	Clear (m)								
T39													
Common Alder <i>Alnus glutinosa</i>	15	1	450	N	5	4	M	A: 91.6 R: 5.39	Good	C: Good S: Good B: Good	B.1 >40 yrs		
T40													
Common Hawthorn <i>Crataegus monogyna</i>	4	3	88 (Eq)	N	2.5	1.5	Y	A: 3.5 R: 1.05	Good	C: Good S: Good B: Good	C.1 >40 yrs Tree of limited amenity value.		
T41													
Goat Willow <i>Salix caprea</i>	4.5	7	159 (Eq)	N	3.5	1	Y	A: 11.4 R: 1.9	Good	C: Good S: Good B: Good	C.1 >40 yrs Tree of limited amenity value.		
T42													
English Elm <i>Ulmus procera</i>	10	3	402 (Eq)	N	5	3	SM	A: 73 R: 4.82	Good	C: Good S: Ivy B: Good	B.1 20 to 40 yrs Thick Ivy is spreading throughout tree's stem into crown.		
T43													
Goat Willow <i>Salix caprea</i>	3	2	113 (Eq)	N	3.5	0.5	Y	A: 5.8 R: 1.35	Good	C: Good S: Good B: Good	C.1 >40 yrs Tree of limited amenity value.		
T44													
Common Oak <i>Quercus robur</i>	8.5	1	450	N	4.5	4	SM	A: 91.6 R: 5.39	Fair	C: Fair S: Ivy B: Good	B.2 20 to 40 yrs Thick Ivy is spreading throughout tree's stem into crown. Slight apical die back observed in tree's crown.		
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				