

BS5837:2012 Tree Survey

Arbtech Consulting Ltd.

Client: Consuta Trust
 Project: Thames Heritage Boat Museum
 Survey Date: 30/07/2013
 Surveyor: David Garrick



Murlain House
 Union Street
 Chester
 Cheshire
 CH1 1QP
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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)						
G1											
A Group --	10	1	240	N	3	3	SM	A: 26.1 R: 2.88	Fair	C: Fair S: Fair B: Fair	C.2 10 to 20 yrs
1											
Scots Pine <i>Pinus sylvestris</i>	12	1	420	N	4	2	SM	A: 79.8 R: 5.03	Fair	C: Fair S: Fair B: Fair	B.1 20 to 40 yrs
2											
Scots Pine <i>Pinus sylvestris</i>	8	2	278 (Eq)	N	1	5	Y	A: 35 R: 3.33	Fair	C: Fair S: Fair B: Fair	C.1 20 to 40 yrs
3											
Scots Pine <i>Pinus sylvestris</i>	8	1	290	N	3	4	SM	A: 38.1 R: 3.48	Fair	C: Fair S: Fair B: Fair	C.1 20 to 40 yrs
4											
Scots Pine <i>Pinus sylvestris</i>	5	1	260	N	4	1.5	SM	A: 30.6 R: 3.12	Fair	C: Poor S: Fair B: Fair	C.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											

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		No	Ø (mm)	Spread (m)	Clear (m)							
5 Scots Pine <i>Pinus sylvestris</i>	10	1	320	N E S W	3 3 3 3	2 2 2 2	Dead	A: 46.3 R: 3.83	Dead	C: Poor S: Poor B: Poor	Dead. Fell	U n/a
6 Scots Pine <i>Pinus sylvestris</i>	12	1	390	N E S W	3 4 4 4	6 4 7 8	SM	A: 68.8 R: 4.67	Fair	C: Poor S: Fair B: Fair	Low quality tree. twin stem at 6m. northern stem snapped out and hung up over moored boat. remove hung up branch. minor deadwood throughout crown	C.1 20 to 40 yrs
7 Scots Pine <i>Pinus sylvestris</i>	11	1	430	N E S W	4 3 2 4	0.5 5 8 1.5	SM	A: 83.7 R: 5.16	Fair	C: Fair S: Good B: Fair		B.1 20 to 40 yrs
8 Goat Willow <i>Salix caprea</i>	10	8	509 (Eq)	N E S W	5 5 5 5	0.25 0.25 0.25 0.25	M	A: 117.3 R: 6.11	Fair	C: Poor S: Fair B: Fair	Major deadwood in crown. remove major deadwood	B.1 20 to 40 yrs
9 Goat Willow <i>Salix caprea</i>	4	1	230	N E S W	2 7 1 1	1 0.25 1 1	SM	A: 23.9 R: 2.75	Fair	C: Poor S: Poor B: Poor	Stem leans 45 degrees to east. Cavity in stem at 1m. Stem is hollow at this point. Root plate lifting bankside of water. Felling recommended	U <10 yrs
10 Common Oak <i>Quercus robur</i>	10	1	630	N E S W	8 8 9 10	2 4 2 1	M	A: 179.6 R: 7.56	Fair	C: Fair S: Good B: Poor	major deadwood in crown. remove deadwood	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					

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		No	Ø (mm)	Spread (m)	Clear (m)							
11 Myrobalan Plum <i>Prunus cerasifera</i>	6	2	333 (Eq)	N E S W	3 4 4 1	0.25 0.25 1 2	M	A: 50.2 R: 3.99	Fair	C: Fair S: Fair B: Fair	Crown is in water to east.	C.1 10 to 20 yrs
12 Scots Pine <i>Pinus sylvestris</i>	12	1	390	N E S W	4 5 4 3	5 1.5 4 5	M	A: 68.8 R: 4.67	Fair	C: Fair S: Good B: Good	Minor deadwood in crown. remove minor deadwood	B.1 20 to 40 yrs
13 Common Ash <i>Fraxinus excelsior</i>	11	1	250	N E S W	4 4 4 4	3 5 5 5	SM	A: 28.3 R: 3	Good	C: Fair S: Fair B: Fair	Twin stem at 2m	B.1 20 to 40 yrs
14 Common Ash <i>Fraxinus excelsior</i>	9	1	190	N E S W	3 3 3 3	2 6 6 6	Y	A: 16.3 R: 2.27	Good	C: Fair S: Good B: Good		B.1 20 to 40 yrs
15 Goat Willow <i>Salix caprea</i>	8	3	432 (Eq)	N E S W	6 4 5 5	1 6 2 1	OM	A: 84.4 R: 5.18	Fair	C: Poor S: Poor B: Fair	Low quality tree. Stems twist around each other. Dead limb. remove dead limb	C.1 20 to 40 yrs
16 Goat Willow <i>Salix caprea</i>	8	3	291 (Eq)	N E S W	5 4 5 2	2 2 1.5 6	SM	A: 38.2 R: 3.48	Decline	C: Poor S: Poor B: Poor	Ganoderma Spp. decay fungi bracket at base of stem. Major crown dieback. Fell	U <10 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)							
17 Weeping Willow <i>Salix chrysocoma</i>	12	1	630	N	5	0.25	M	A: 179.6 R: 7.56	Fair	C: Fair S: Fair B: Fair	Minor deadwood in crown. crown low over footpath.	B.1 20 to 40 yrs
18 Weeping Willow <i>Salix chrysocoma</i>	10	1	430	N	4	0.25	M	A: 83.7 R: 5.16	Poor	C: Poor S: Fair B: Fair	Deadwood throughout crown.	C.1 10 to 20 yrs
19 Common Ash <i>Fraxinus excelsior</i>	11	1	120	N	1	8	Y	A: 6.5 R: 1.43	Fair	C: Fair S: Good B: Fair		C.1 20 to 40 yrs
20 Goat Willow <i>Salix caprea</i>	5	4	330 (Eq)	E	3	0.25	M	A: 49.3 R: 3.96	Fair	C: Poor S: Poor B: Poor	Tree has fallen but still grows.	C.2 10 to 20 yrs
21 Weeping Willow <i>Salix chrysocoma</i>	13	1	530	N	5	2	M	A: 127.1 R: 6.36	Fair	C: Fair S: Fair B: Fair		B.1 20 to 40 yrs
22 Goat Willow <i>Salix caprea</i>	9	7	450 (Eq)	N	7	1	M	A: 91.5 R: 5.39	Fair	C: Poor S: Poor B: Fair	Estimated Measurements Measurements estimated as tree leans over water. low quality tree.	C.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				

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		No	Ø (mm)	Spread (m)	Clear (m)						
23 Silver Birch <i>Betula pendula</i>	12	1	270	N E S W	3 3 2 3	3 3 2 2	SM A: 33 R: 3.24	Good	C: Fair S: Good B: Fair		B.1 20 to 40 yrs
24 Silver Birch <i>Betula pendula</i>	9	1	140	N E S W	3 3 3 3	3 3 3 3	Y A: 8.9 R: 1.68	Good	C: Good S: Good B: Fair		C.1 20 to 40 yrs
25 Common Hawthorn <i>Crataegus monogyna</i>	5	3	116 (Eq)	N E S W	2 2 2 2	0.25 0.25 0.25 0.25	Y A: 6.1 R: 1.39	Good	C: Fair S: Fair B: Fair		C.1 20 to 40 yrs
26 Silver Birch <i>Betula pendula</i>	10	3	266 (Eq)	N E S W	4 4 4 4	2 1 1 1	SM A: 32.1 R: 3.19	Good	C: Fair S: Fair B: Fair		B.1 20 to 40 yrs
27 Silver Birch <i>Betula pendula</i>	10	1	270	N E S W	4 4 4 4	4 4 4 4	SM A: 33 R: 3.24	Good	C: Fair S: Fair B: Fair	Twin stem at 3m	B.1 20 to 40 yrs
28 Crack Willow <i>Salix fragilis</i>	11	3	372 (Eq)	N E S W	3 4 8 5	3 2 2 2	M A: 62.5 R: 4.46	Fair	C: Fair S: Fair B: Fair	Minor deadwood in crown	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				

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29 Crack Willow <i>Salix fragilis</i>	11	3	515 (Eq)	N E S W	6 4 6 4	2 2 2 4	M	A: 119.9 R: 6.17	Fair	C: Fair S: Fair B: Fair	Minor deadwood throughout crown	B.1 20 to 40 yrs
30 Goat Willow <i>Salix caprea</i>	10	6	269 (Eq)	N E S W	7 7 4 2	2 2 2 3	M	A: 32.8 R: 3.23	Fair	C: Poor S: Poor B: Fair	Low quality tree	C.1 20 to 40 yrs
31 Common Oak <i>Quercus robur</i>	10	1	180	N E S W	2 5 5 3	8 1.5 1.5 1	Y	A: 14.7 R: 2.16	Good	C: Fair S: Good B: Good		B.1 >40 yrs
32 Silver Birch <i>Betula pendula</i>	12	2	320 (Eq)	N E S W	4 4 4 4	3 3 1 2	SM	A: 46.4 R: 3.84	Good	C: Fair S: Fair B: Fair		B.1 20 to 40 yrs
33 Crack Willow <i>Salix fragilis</i>	9	2	857 (Eq)	N E S W	7 7 7 7	2 1 2 1	M	A: 332.3 R: 10.28	Fair	C: Poor S: Poor B: Fair	Pollarded at 2m. Decay present at sites of previously snapped out limbs. New snapped out limb requires clearing.	C.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		
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Report selection criteria.

Projects.

Thames Heritage Boat Museum

Date Range.

Any Date

Work types.

----> -No Selection made-

Latest Survey.

All surveys for the selected trees.
 ---> Last survey for each selected tree.

Work Completed.

---> Work Completed
 ---> Work Not Completed

Number of trees in selected Project(s) 34

Number of trees in Report selection 34

Age Classifications: N Newly planted EM Early Mature
 Y Young M Mature
 SM Semi-mature OM Over Mature

Condition: C Crown
 S Stem
 B Basal area

Stems: Ø Diameter
 (Eq) Equivalent stem diameter using BS5837:2012 definition