BS5837:2012 Tree Survey

Selwyn Trees
30 Tickhill Road
Doncaster
South Yorkshire
DN4 8QE
Phone: 01302 816850
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Client: Omar Sharif- Align Property Partners
Project: Worsbrough Reservoir
Survey Date: 22/11/2021
Surveyor: Rachel Selwyn

Tree and Tag No / Species	Hght (m)	Stems No	Stems Ø (mm)	Crown Spread (m)	Crown Clear (m)	Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations / Survey Comment	Cat ERC
G1 Unknown - -	5	0				SM	A: 0 R: 0		C: S: B:	An old sycamore (Acer pseudoplatanus) stump; stump approx. 1m in height and has resprouted with multiple shoots. Resprouted. If left unmanaged this will ultimately form a multi-stemmed tree with poor structure and poor unions. Recommendation: Remove stump. Priority: within 2 years	C.2 10 to 20 yrs
G2 Unknown - -	5	0				SM	A: 0 R: 0		C: S: B:	An old willow (Salix) stump approx. 1m in height and has resprouted with multiple shoots. If left unmanaged this will ultimately form a multi-stemmed tree with poor structure and poor unions. Nearby a young hawthorn amongst brambles- will develop into a good hawthorn tree/bush if retained. This tree was too young to be surveyed individually. Recommendation: Remove stump. Priority: within 2 years	C.2 10 to 20 yrs

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

Condition: C Crown; S Stem; B Basal area

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ERC: Estimated Remaining Contributio

Site close to Northern Embankment of Worsbrough Reservoir, Barnsley

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T708										Estimated Measurements	
White Willow	16	1	973	N 6	10	M	A: 428.3	Poor	C: Poor		**C.1.2.3**
Salix alba				E 10	4		R: 11.67		S: Poor		10 to 20 yrs
				S 10	0				B: Poor		
				W 6	3						

On the east side of main stem, a major cavity is present extending from base up to at least 1m. Width of cavity approx. 15-20cm. Major hollowing in the main stem present
Tree is leaning southeast/south
Main stem of tree occluding barbed wire
Multiple significant breakouts have occurred on south and east sides, with major tears and major wounds present
Further tears and wounds on west side from branch failure.
Major broken stem failure also present on northwest side
Major split and crack present between stem and limb at main union at approx. 2.4m.
At least 3 different decay fungi brackets present on various branches
3-4m approx. from edge
Tree is vulnerable to further branch and stem failures due the significant wounds present. If people or property are to occupy the target zone, action would be required to lower the risk of harm due to a potential tree failure.

Recommendations: Currently, the tree's target zone has very low occupancy of people), therefore no action is required to lower the risk of harm to people, if the target zone occupancy is unchanged. However, if the occupancy within the target zone changes (e.g. pedestrians & fishermen occupy the target area) the risk needs to be reviewed.
Tree is in decline, and may continue to do so regardless of development. Excavation within the rooting area may likely detrimentally affect the tree. The tree has good wildlife value. However in consideration of its future target zone usage, and the impact of any proposed development, tree removal may ultimately need to be considered.

Next inspection due: 24 months

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T709										Estimated Measurements	
Common Oak *Quercus robur*	19	1	480	N 9 E 7 S 7 W 6	3.5 4.5 1.5 8	SM	A: 104.2 R: 5.75	Good	C: Fair S: Good B: Fair	A breakout has occurred on southeast side at approx. 3m. A large wound tear is present Tree is showing some signs of stress- epicormic stress reaction is present Quite spreading canopy but appears slightly thin and some minor dieback present on east side. Moderate deadwood also present in crown on east side Crown is slightly distorted due to neighbouring trees Next inspection due: 24 months	**B.1.2** 20 to 40 yrs
T710										Estimated Measurements	
White Willow *Salix alba*	20	1	350	N 7 E 5 S 6.5 W 4.5	7 4 7 4	SM	A: 55.4 R: 4.19	Fair	C: Fair S: Fair B: Fair	Leaning slightly southwest but crown corrects Moderate deadwood on east and south sides. Quite a high crown with few lower branches, except on southwest side of crown Codominant at around 4-4.5m. Crown is distorted by neighbouring trees Next inspection due: 24 months	**C.2** 10 to 20 yrs
T711										Estimated Measurements	
Common Hawthorn *Crataegus monogyna*	8	5	380 (Eq)	N 4.5 E 4.5 S 4.5 W 4.5	3.5 1 1 3.5	M	A: 65.4 R: 4.56	Fair	C: Fair S: Fair B: Fair	Clump of hawthorn- 2 main stems cojoined towards the base- Stems significantly distorted at base, extending east but leaning corrects into the crown Situated on very steep sloping banking Multi stemmed Cracking forming between V-shaped unions Some branches extending horizontally Crown extends over path although clearance sufficiently currently Typical habitat of understory hawthorn Next inspection due: 24 months	**C.2** 10 to 20 yrs

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T712										Estimated Measurements	
Common Hawthorn *Crataegus monogyna*	9	7	423 (Eq)	N 4 E 3 S 4 W 5	3.5 3.5 3 3	M	A: 81.1 R: 5.08	Fair	C: Fair S: Fair B: Fair	Situated on very steep sloping banking Multiple stems extending from base (Average diameter taken) Hanging deadwood and moderate deadwood throughout crown. Next inspection due: 12 months	C.1.2 10 to 20 yrs
T713										Estimated Measurements	
Common Oak *Quercus robur*	18.5	1	804	N 11 E 10 S 9.5 W 9	2.5 4 5 4	M	A: 292.5 R: 9.64	Fair	C: Fair S: Good B: Good	Large oak tree Significant epicormics shoots on main stem and throughout whole main crown. This may incate a stress reaction. The tree is sprouting epicormics to increase its photosynthetic potential (often ocurring on trees in response to stress or a change in the surrounding conditions). Codominant at around 3m above ground level with 3 main stems Large major dead limb on west side of crown. Dieback at tips of crown on north side in lower crown and in middle of crown. Various pruning wounds present Large wound at base on south side, has occluded. Various small pruning wounds throughout crown Minor dead section on north side Ground level slopes downwards from the north to the south Soil has possibly been graded or piled historically, forming the steep ground level Coarse stubs on south side of crown from previous poor pruning Next inspection due: 12 months	B.1.2 20 to 40 yrs

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T714										Estimated Measurements	
Common Hawthorn *Crataegus monogyna*	6	3	329 (Eq)	N 3.5 E 4 S 3.5 W 2.5	2 1.5 2.5 1.5	M	A: 49 R: 3.94	Fair	C: Fair S: Fair B: Fair	Multi stemmed Wound and scar on west side of main stems at approx. 1.3-1.4m above ground level, with exposed wood present Typical hawthorn habitat Fencing is tied to the tree currently with rope. To the west of this hawthorn, a trench in the ground appears to be present. This is possibly an old rain water channel running down the steep banking Understory brambles present in this area. Next inspection due: 24 months	C.1.2 10 to 20 yrs
T715										Estimated Measurements	
Common Oak *Quercus robur*	4.5	1	105	N 1.5 E 1.5 S 1.5 W 1	1.5 1.5 1.5 1.5	Y	A: 5 R: 1.26	Good	C: Good S: Fair B: Good	Young oak- has the potential to grow into a very large tree. Tree is growing very close to neighbouring young oak and neighbouring young hawthorn. There will be some over-crowding as they mature and a removal of one of two in this group may be required to allow growth of the remaining. Lots of brambles surrounding this tree having the potential to swarm and smother if not managed. Tree is close to path and situated on very steep banking. A shallow old trench appears to be present near to the tree. This is possibly an old path or an old water channel.	C.2 10 to 20 yrs
T715a										Estimated Measurements	
Oak *Quercus Spp.*	4	1	108	N 1 E 1 S 1 W 1.5	1 1 1 1	Y	A: 5.3 R: 1.29	Good	C: Fair S: Fair B: Fair	Young oak- has the potential to grow into a very large tree. Tree is growing very close to neighbouring young oak and neighbouring young hawthorn. There will be some over-crowding as they mature and a removal of one of two in this group may be required to allow growth of the remaining. Lots of brambles surrounding this tree having the potential to swarm and smother if not managed. Tree is close to path and situated on very steep banking. A shallow old trench appears to be present near to the tree. This is possibly an old path or an old water channel.	C.1.2 10 to 20 yrs

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T716										Estimated Measurements	
Common Hawthorn *Crataegus monogyna*	5	2	212 (Eq)	N 2 E 3 S 2.5 W 2	1 1 1 1	Y	A: 20.4 R: 2.54	Good	C: Good S: Good B: Good	Young hawthorn (Crataegus monogyna)- growing very close to young oak trees. Future growth can be expected. There will be some over-crowding as they mature and a removal of one of two in this group may be required to allow growth of the remaining. Lots of brambles surrounding this tree having the potential to swarm and smother if not managed. Tree is close to path and situated on very steep banking. A shallow old trench appears to be present near to the tree. This is possibly an old path or an old water channel. Self-set hazels (Corylus avellana) - growing close to and out of the retaining wall of the northern embankment.	**B.1.2** 10 to 20 yrs
T717										Estimated Measurements	
Common Oak *Quercus robur*	3	2	99 (Eq)	N 1.5 E 1.5 S 1.5 W 1.5	1.5 1.5 1.5 1.5	Y	A: 4.4 R: 1.18	Good	C: Good S: Good B: Good	Tree has 2 x stems with a codominant structure Surrounded by brambles, therefore impossible to inspect base. Brambles are at risk of swarming and smothering the tree if left unmanaged Massive future growth can be expected- tree has the potential to grow very large. Tree situated close to edge of area that leads from the gate present to the north, which leads from the path onto the embankment. Recommendations: Carry out formative pruning to remove one of the codominant stems. Priority: within 5 years	**C.1.2** 10 to 20 yrs

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T718										Estimated Measurements	
White Willow	16.5	5	751 (Eq)	N 11	4	M	A: 255.3	Fair	C: Fair		**C.2**
Salix alba				E 12.5	4.5		R: 9.01		S: Poor		10 to 20 yrs
				S 8.5	3.5				B: Fair		
				W 7.5	4.5						

Multi-stemmed. Tree is codominant at approx. 60cm with approx. 5 main stems (Diameters estimated)
Significant split present at union between 1 stem and the main stem- this stem has failed at base and is resting horizontally on hedge - stem is still alive
Deadwood is present in the crown- moderate on west side
Very spreading crown
Fungi bracket on south side on limb extending over pathway. This indicates decay is present in this limb over the pathway and is at risk of failure. The extent of decay is not known.
At the main unions of all stems, tight V-shaped unions are present. These unions are structurally weaker than U-shaped unions because the wood is not strongly attached. One stem has already failed, and it is possible than any of the other main stems could fail at this union in the future. Tree is next to a path and any pedestrians present on the path could be targets should a failure occur. Tree has a large spreading crown that may act as a 'sail' in high winds.

Silver birches (Betula pendula) willows (Salix spp.) and occasional ash (Fraxinus excelsior) and Prunus spp. present in the vicinity further west. A hawthorn boundary hedge (Crataegus monogyna) also present. These were not surveyed as they are not in the vicinity of the development area.

Recommendation: remove branch with decay is present over the pathway. Priority within 12 months. Reinspect this tree annually

Next inspection due: 12 months. Note: This tree is vulnerable to experiencing future failures at main unions.

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T719										Estimated Measurements	
White Willow *Salix alba*	12	6	906 (Eq)	N 12.5 E 11.5 S 6.5 W 10.5	2 3 3.5 3	M	A: 371.6 R: 10.87	Good	C: Fair S: Poor B: Fair	Tree has 6 stems cojoined below 1m. Tight V-shaped unions are present. Decay present towards base of main stem in area of an old pruning wound. Soft decaying material present and this was soft when probed-probed to approximately 15cm. This is on the south side of the tree at approx. 60cm. Crumbly material also present in this vicinity Very spreading and large crown. Inner deadwood present within the crown Overall vitality good - structure poor Next inspection due: 12 months	**C.2** 10 to 20 yrs
T720										Estimated Measurements	
Hawthorn *Crataegus Spp.*	4	3	220 (Eq)	N 2.5 E 2.5 S 2.5 W 2.5	2 2 3 2	SM	A: 21.8 R: 2.63	Good	C: Fair S: Fair B: Fair	Multi stemmed - codominant towards base Clearance from the path is sufficient currently. Next inspection due: 24 months	**C.2** 10 to 20 yrs
T721										Estimated Measurements	
Willow *Salix Spp.*	15	4	389 (Eq)	N 4 E 4 S 4 W 4	3 3 3 3	SM	A: 68.6 R: 4.67	Good	C: Fair S: Poor B: Fair	Multi stemmed - codominant towards base. Approx. 4 main stems. Tight V-shaped unions present. These types of unions are weaker than U-shaped unions and therefore have a higher risk of failure. Clearance from the path is sufficient currently Next inspection due: 12 months	**C.1.2** 10 to 20 yrs

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