



**Preliminary Tree Survey
Site off Lundhill Road
Wombwell
Barnsley**

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Report Title:	Preliminary Tree Survey Land off Lundhill Road, Wombwell
Report Reference:	R-2667-03
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Executive summary

This survey included eighteen individual trees and seventeen group of trees.

Nine trees require annual monitoring. One tree requires re-surveying in the next autumnal period. Eight trees require a crown clean to remove deadwood, stubs, and broken branches within their canopies.

The trees on site have a moderate to low impact on the local treescape.

Introduction

Purpose of the Report

1. This report has been commissioned to provide professional, independent, detailed arboricultural advice on all relevant trees present at land off Lundhill Road, Wombwell, Barnsley.
2. The report has been undertaken in accordance with BS 5837:2012 'Trees in relation to construction – Recommendations'.
3. A topographical plan has been supplied by the client (Ref: 10247 Lundhill Road Wombwell 3D.DWG).

Limitations

4. All findings and recommendations are based on visual observations conducted from ground level during the site visit only. No other diagnostic procedures were used to establish any extent of internal decay nor was a climbing inspection undertaken.
5. The recommendations in this report are of a preliminary nature and do not take into account any specific development proposals. This allows the trees to be assessed independently and without bias.
6. All measurements were obtained with the use of a clinometer and an electronic distometer. On occasion it is not viable to provide accurate measurements due to restricted access or other mitigating circumstances on site, and the data may be estimated.
7. Due to the large potential penalties for illegally carrying out work to protected trees, it is recommended that a check is carried out prior to any works being undertaken to ensure the trees on site are not protected by a Tree Preservation Order or are within a Conservation Area. We are happy to assist in establishing whether trees on this site are protected by a Tree Preservation Order or a Conservation Area by the Local Authority, if required.

Site Visit

Site Description

8. Land Use –The site surveyed is four large rural fields, with a mixture of usage.
9. To the north and east of the site are residential areas with associated garden spaces, some of which back onto the site. To the south lies Elsecar Canal and the busy dual carriageway, A6195. There is also a large disused detached property with associated out-buildings to the south. To the west lies Lundhill

Road.

10. Further north-west are more rural fields and residential housing.
11. Topography - The site is approximately level to its centre.
12. Treescape - The area on a whole is reasonably well tree'd for an urban setting.
13. The trees on this site have a moderate to low impact on the local treescape.
14. Species diversity – The species diversity on this site is average to good for an urban setting. Species surveyed include; silver birch, hawthorn, ash, poplar, lombardy poplar, field maple, sycamore, hazel, willow, goat willow, Lawson, box, holly, apple, pear, blackthorn, cherry & elder.
15. Visual amenity value - The trees on site collectively provide a low to moderate visual amenity to the surrounding area.

Survey Conditions

16. The survey was carried out on the 18th October 2016.
17. The weather conditions; bright and clear.

Results

Tree descriptions and recommendations

18. The tree survey revealed a total of eighteen individual trees and seventeen groups of trees. Of these, nine trees were identified as retention category 'B' and twenty-six trees were identified as retention category 'C'. No retention category 'A' and 'U' were identified on this occasion. Please refer to Appendix 2 for retention category and definition criteria.
19. It has been recommended that T6, T7, T15, T16, T17, T18, T19, T20 and T28 are monitored annually to assess if their condition is still acceptable. This monitoring is required due to small bark wounds and stubs which have a level of decay present or dieback of a canopy.
20. An old decaying fungal bracket was found at the base of T20. The bracket was too decayed to identify and no zone of decay could be seen due to dense ivy consuming the stem. It has therefore been recommended that this tree is re-surveyed in the next autumnal period after the issue of this report.
21. Tree pruning works have been recommended to one of the trees on this site, for reasons of public safety and to ensure the long-term health of the tree, as detailed in Appendix 1.

22. Those trees which overhang the public footpaths or public highways, detailed in Appendix 1, shall require future maintenance to maintain clearance heights for vehicular or pedestrian traffic. These heights should be 5.6m above a road and 2.5m above a footpath.

Conclusions

23. The trees surveyed were generally found to be in fair condition.
24. Nine trees (T6, T7, T15, T16, T17, T18, T19, T20 and T28) require annual monitoring. This is detailed in Appendix 1.
25. One tree (T20) requires re-surveying in the next autumnal period after the issue of this report. This is detailed in Appendix 1.
26. Some works have been recommended for reasons of public safety and to ensure the long-term health of the trees. These are detailed in Appendix 1 – Tree Data.
27. Any proposed development should be accompanied by an Arboricultural Method Statement detailing the protection measures necessary for each tree. This should specify fencing standard and positions, acceptable tree friendly construction techniques and necessary tree work.

Appendix 1: Tree Data

Tree/group number	Common name	Botanical name	Age class	Height (m)	Diameter (mm)	Canopy Spread				Crown clearance (m)	Physiological condition	Structural condition	Observations	Recommendations	Visual amenity value	Remaining contribution (years)	Retention category
						North	East	South	West								
1	Hawthorn	<i>Crataegus monogyna</i>	Semi mature	6	To 150	2.8	2.1	2.6	1.99	1	Fair	Fair	Multiple stemmed at ground level with a balanced canopy. Typical of species. Overhanging the site boundary.	No action required	Low	20+	C1
2	Ash	<i>Fraxinus excelsior</i>	Early mature	13	370	5.5	1.8	1	4.1	2	Fair	Fair	Single stemmed with a slight lean and an unbalanced canopy. Minor deadwood noted. No major defects visible.	No action required	Mod	20+	C1
3	Ash	<i>Fraxinus excelsior</i>	Early mature	12	Est 300 & 160	4.51	4.5	5.2	5.7	0.3	Fair	Fair	Twin stemmed at ground level with a balanced canopy. Overhanging road and boundary. Epicormic growth present. Minor deadwood and minor bark wounds noted throughout. Covered in dense Ivy preventing detailed inspection.	Crown clean	Mod	20+	C1
4	Ash	<i>Fraxinus excelsior</i>	Early mature	7	260	0.3	1.3	0.3	3.59	1	Fair	Poor	Twin stemmed at 1m with an unbalanced canopy. Suppressed tree.	Consider removal/no action required at present	Low	<10	C1
5	Ash	<i>Fraxinus excelsior</i>	Semi mature	11	Est to 200 x 3	4	4.5	3.2	5.91	2	Good	Fair	Multiple stemmed at ground level with a balanced canopy. Deadwood noted within canopy. Covered in dense Ivy preventing detailed inspection.	Remove ivy and re-inspect	Mod	20+	C1
6	Poplar	<i>Populus nigra</i>	Early mature to mature	To 16	To 420	See plan	See plan	See plan	See plan	1+	Good	Fair	Typical of species. Growing close together along footpath. Typical of species. Minor bark wounds, deadwood and stubs throughout. Predominantly single stemmed.	Monitor bark wounds and condition due to species. Light crown clean if required.	Mod	10 to 20	B2
7	Lombardy Poplar	<i>Populus nigra</i> 'Italica'	Early mature to mature	To 20	To 380	See plan	See plan	See plan	See plan	1+	Good	Fair	Typical of species. Growing close together along footpath. Typical of species. Minor bark wounds, deadwood and stubs throughout. All single stemmed.	Monitor bark wounds and condition due to species. Light crown clean if required.	Mod	20+	B2
8	Lombardy Poplar	<i>Populus nigra</i> 'Italica'	Early mature	19	Est 350	2.8	2.8	2.8	2.8	0.5	Good	Fair	Typical of species. Single stemmed and vertical with a balanced canopy. No major defects visible. Along boundary.	No action required	Mod	20+	B1
9	Lombardy Poplar	<i>Populus nigra</i> 'Italica'	Semi mature	17	Est 220	2	2	2	2	2	Good	Fair	Typical of species. Single stemmed and vertical with a balanced canopy. No major defects visible. Along boundary.	No action required	Mod	20+	B1
10	Mixed	Mixed	Semi mature	To 7	To 150	See plan	See plan	See plan	See plan	1.3	Fair	Fair	Two trees (field maple and hawthorn) growing close together. Along boundary. Limited inspection due to surrounding vegetation. No major defects visible.	No action required	Low	20+	C1

11	Sycamore	Acer pseudoplatanus	Young	6	To 80	3.4	3.5	3	3.5	0	Fair	Fair	Multiple stemmed at ground level with a balanced canopy. Epicormic growth noted at base. Along boundary. Limited inspection due to surrounding vegetation. No major defects visible.	No action required	Low	20+	C1
12	Sycamore	Acer pseudoplatanus	Young	4.5	To 80	1.3	2	2	2	0	Fair	Fair	Multiple stemmed at ground level with a balanced canopy. Epicormic growth noted at base. Along boundary. Limited inspection due to surrounding vegetation. No major defects visible.	No action required	Low	20+	C1
13	Birch	Betula pendula	Semi mature	7	Est 260	3.7	4	3.5	2.3	1.2	Fair	Fair	Limited inspection. Single stemmed and vertical with a balanced canopy. Stump noted near base.	No action required	Low	20+	C1
14	Birch	Betula pendula	Semi mature	5.5	190 & 90	1.3	3.7	1.5	3.5	1	Fair	Fair	Twin stemmed at 0.5m with an unbalanced canopy. Cable running through canopy. Situated on adjacent land.	No action required	Low	20+	C1
15	Field maple	Acer campestre	Mature	12	420, 200, 200 & 180	4.7	4.26	5.92	6.3	0	Good	Fair	Multiple stemmed at ground level with a balanced canopy. Tire swing attached to branch. Major bark wound noted to south - no decay present. Broken branches. Limited inspection due to location. Minor bark wounds throughout. Along boundary. Large dead section.	Monitor condition closely. Crown clean.	Mod	20+	B1
16	Field maple	Acer campestre	Mature	10	300, 150, 120 & 100	6.4	6	3.7	4	0	Good	Fair	Limited inspection due to location. Multiple stemmed at ground level with an unbalanced canopy. Epicormic growth present. Minor bark wounds throughout.	Monitor condition.	Mod	20+	B1
17	Hawthorn	Crataegus monogyna	Early mature	8	To 250	3.1	3.2	3	2.8	1.5	Fair	Poor	Multiple stemmed at ground level with an unbalanced canopy. Dieback of canopy. Large bark wound noted up stem. Snapped branches throughout canopy. Minor deadwood and stubs.	Monitor condition closely. Crown clean.	Low	10 to 20	C1
18	Hawthorn	Crataegus monogyna	Early mature	9	To 250	3.25	3.4	3.1	3.2	1.6	Fair	Poor	Multiple stemmed at ground level with an unbalanced canopy. Dieback of canopy. Snapped branches throughout canopy. Minor deadwood and stubs.	Monitor condition. Crown clean.	Low	10 to 20	C2
19	Ash	Fraxinus excelsior	Mature	18	Est 640	Est 7	5.7	6.2	5.7	2	Good	Fair	Along boundary. Overhanging garden space. Bird box attached to stem. Single stemmed and vertical with a balanced canopy. Major deadwood and stubs noted. Only surveyed from one side. Need access.	Monitor condition. Re-inspect once access is cleared. Crown clean.	Mod	20+	B1
20	Ash	Fraxinus excelsior	Mature	18	580 & 550	Est 6.5	5.1	5.3	7.76	3	Good	Fair	Twin stemmed at ground level with a balanced canopy. Situated on adjacent land. Limited inspection. Minor bark wounds throughout. Deadwood and stubs within canopy. Overhanging boundary. An old decaying fungal bracket was noted on the surrounding ground, which would suggest there was a zone of decay. However, it could not be identified at the time of inspection.	Resurvey in the next early autumn	Mod	10 to 20	B1

21	Hawthorn	Crataegus monogyna	Semi mature to early mature	To 7	To 200	See plan	See plan	See plan	See plan	0+	Fair	Fair	Old boundary feature, very gappy in places. Typical of species. Some deadwood and minor dieback noted. Excellent for wildlife. No major defects evident.	No action required	Low	20+	C1
22	Mixed	Mixed	Young	To 6	To 100	See plan	See plan	See plan	See plan	0+	Fair	Fair	Group contains young apple and hawthorn. No major defects evident.	No action required	Low	20+	C1
23	Hazel	Corycus avellana	Young	To 5	To 40	See plan	See plan	See plan	See plan	0+	Fair	Fair	Multi stemmed at ground level with a balanced canopy. No major defects evident.	No action required	Low	20+	C1
24	Mixed	Mixed	Young	To 6	To 50	See plan	See plan	See plan	See plan	0+	Fair	Fair	Group contains pear, apple and hawthorn. No major defects evident.	No action required	Low	20+	C1
25	Hawthorn	Crataegus monogyna	Semi mature to early mature	To 2.5	To 170	See plan	See plan	See plan	See plan	0+	Fair	Fair	Maintained hawthorn hedge. Excellent screenage. No major defects evident.	No action required	Low	20+	C1
26	Mixed	Mixed	Semi mature to early mature	To 6.5	To 200	See plan	See plan	See plan	See plan	0+	Fair	Fair	Group contains predominately hawthorn with a dense understory of bramble, hazel and holly. Acting as screenage. No major defects evident.	No action required	Low	20+	C1
27	Mixed	Mixed	Semi mature	To 6	To 110	See plan	See plan	See plan	See plan	0+	Fair	Fair	Contains hawthorn, blackthorn, cherry, field maple and holly. Dense grouping. No major defects evident.	No action required	Low	20+	C1
28	Ash	Fraxinus excelsior	Semi mature	To 8	To 150	See plan	See plan	See plan	See plan	0+	Fair	Poor	Growing close together within boundary group. Fused and rubbing branching. Minor deadwood and stubs. Epicormic growth. Scrappy looking trees.	Monitor condition and light crown clean.	Low	20+	C1
29	Mixed	Mixed	Young to semi mature	To 7	To 110	See plan	See plan	See plan	See plan	0+	Fair	Fair	Contains hawthorn, blackthorn, cherry, elder, rosehip, gelder rose, field maple and holly. Dense grouping. No major defects evident.	No action required	Low	20+	C1
30	Willow	Salix sp	Mature	To 16	To 550	See plan	See plan	See plan	See plan	0+	Good	Fair	Typical of species. Collapsing in some sections - appears ok. Deadwood and stubs. No major defects evident.	Monitor condition	Mod	20+	B2
31	Mixed	Mixed	Semi mature	To 7	To 150	See plan	See plan	See plan	See plan	0+	Fair	Fair	Contains hawthorn, goat willow, blackthorn, cherry, field maple and holly. Dense grouping. No major defects evident.	No action required	Low	20+	C1
32	Lawson	Chamaecyparis lawsoniana	Young to semi mature	To 2.5	To 80	See plan	See plan	See plan	See plan	0+	Fair	Fair	Scrappy boundary hedge. No major defects evident.	No action required	Low	20+	C1
33	Box	Buxus sempervirens	Young to semi mature	To 1.5	To 70	See plan	See plan	See plan	See plan	0+	Fair	Fair	Well maintained boundary hedge. No major defects evident.	No action required	Low	20+	C1
34	Mixed	Mixed	Young to semi mature	To 5	To 100	See plan	See plan	See plan	See plan	0+	Fair	Fair	Contains hawthorn, ash, blackthorn, cherry, field maple and holly. Dense grouping. No major defects evident.	No action required	Low	20+	C1
35	Hawthorn	Crataegus monogyna	Semi mature	To 2.5	To 100	See plan	See plan	See plan	See plan	0+	Fair	Fair	Well maintained boundary hedge. No major defects evident.	No action required	Low	20+	C1

Appendix 2: Explanation of Tree Descriptions

Measurements

Tree height is calculated in metres from ground level to the highest point of the tree.

Stem diameter is measured and rounded down to the nearest ten millimetres at 1.5m above ground level using a specialist measuring tape. Where a tree divides into multiple stems each stem will be measured.

Canopy spread is measured from the centre of the stem base to the tips of the branches in all four cardinal points using an electronic distometer.

Crown clearance is estimated in metres and is an indication of the lowest significant live branches of the crown.

Age Class is divided into young, semi-mature, early-mature, mature, over mature, and veteran.

Physiological condition is an assessment of the health and vigour of the tree.

Structural condition is an indication of the structural integrity of the tree. This is given as good, average or poor.

The observations column will include a brief description of each tree and provide further information as relevant.

The remaining contribution is a rough estimate of the number of years a tree is expected to survive in a structurally sound condition.

Retention Categories

Category ratings are allocated based on the current quality and value of a tree in its current surroundings assuming the recommendations of this report are carried out. No consideration is given to any specific development proposal when allocating category ratings.

Category A trees are those which are of high quality and value, are in good structural and physiological condition and are expected to contribute for at least another 40 years.

Category B trees are those which would be considered as category A trees but which are of lower quality and value, poorer structural condition, and which are expected to contribute for at least 20 years.

Category C trees are those which are of low quality and value, are in poor condition, and are expected to contribute for at least 10 years.

Category U trees are those which are expected to contribute for less than 10 years due to serious defects. As is common in risk management, where there is doubt, the precautionary principle may be applied.

Sub-categories

Sub- categories of 1, 2 or 3 are included in the tree data tables and are defined as follows:

Sub-category 1 trees are those with 'mainly arboricultural value'

Sub-category 2 trees are those with 'mainly landscape value'

Sub-category 3 trees are those with 'mainly cultural or conservation value'

Appendix 3: General Recommendations

All work must be to BS 3998:1989 - '*Recommendations for tree work*'.

This report is based upon a visual inspection. The consultant shall not be responsible for events which happen after this time due to factors which were not apparent at the time, and the acceptance of this report constitutes an agreement with the guidelines and the terms listed in this report.

Any defects seen by a contractor or the employer that were not apparent to the consultant must be brought to the consultant's attention immediately.

It is advisable to have trees inspected by an arboricultural consultant regularly.



Appendix 4: Tree Constraints Plan

