

TREE REPORT
Palmer Lane, Barrow Upon Humber



1. Instructions.

To carry out an inspection of the trees at Palmer Lane and record information in relation to BS 5837: trees in relation to construction (2005).

To comment and advise on the access proposals in relation to the tree survey findings.

To advise on measures required for the protection of those trees suitable for retention.

2. Date of inspection.

The trees were inspected on the 16th July 2010.

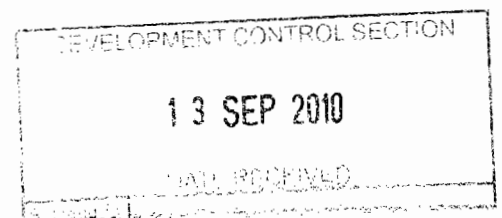
3. Background information:

A survey was previously carried out in November 2004 and included all the significant trees within the site and adjacent to it. Since this survey, trees No's 5 and 11 have been felled and an apple in the south-west corner that were shown on the original drawing.

4. Condition of trees.

Please see Appendix No 1 attached to my report which gives information on each tree and groups of trees in relation to the following:

- Tree types and groups with reference number
- Species
- Height
- Stem / trunk diameter at 1.5m above ground level
- Crown spread
- Height from ground level to lowest part of crown
- Age Class
- Physical condition
- Structural condition
- Other Comments
- Preliminary Management Recommendations
- Safe useful life expectancy



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Tree Quality Assessment in relation to 'BS 5837 - Trees in relation to construction' 2005.
Photographs

The trees are located on the attached drawing.

5. Wildlife and countryside Act:

Where birds and bats may be affected by work to trees and hedges, consideration should be given to the timing of the work and whether the work is essential.

Bats are protected under the Wildlife & Countryside Act 1981 and subsequent legislation and it is an offence to deliberately or recklessly disturb them or damage their roosts. Trees should be inspected before any works commence and if the presence of bats is suspected advice will need to be sought from either Natural England via the Bat Line on 0845 1300228. Further advice on bats is available from 'The Bat Conservation Trust' (020 7627 2629).

6. Development Comments:

6.1. General:

The trees are located on the attached drawing but I cannot be certain on the accuracy of the locations. This is important in relation to sighting of the dwellings and the Root Protection Areas.

6.2. Tree Constraints Plan

The locations of the trees are shown on the attached drawing along with my grades for each tree as shown in Appendix No.1 and in relation to BS5837 (2005).

6.2.1. Root Protection Areas:

I have indicated my considered Root Protection Areas on the attached drawing for the possible protection of all trees that could be affected by the works and are worthy of retention.

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6.2.2. Above ground constraints:

The above ground constraints relate to the crown spread of the trees and their ultimate size. The actual crown spreads are shown on the attached drawing.

7. Arboricultural implications assessment:

7.1. Tree constraints and design:

- The layout for the site shows the retention of Sycamore 6. This tree became very unbalanced over the years due to the close proximity of an adjacent Horse chestnut that has now been removed. The remaining tree is very one-sided and in my opinion too close to property 43 to be worthy of retention. The unbalanced crown also gives concern for property 43 which would be within the Root Protection Area of 12m. It is my opinion that on a housing site, this tree should be felled.
- Horse chestnut 7 is too close to property 46 as it has a Root Protection Area of 14m. As it has a stem cavity, it is my opinion that it is not safe close to property and that on a housing site, this tree should be felled. It is also close to property off the site.
- Sycamore 8 is an extremely large tree with a height of 25m. It is much larger than shown on the original drawing and too close to properties 27 and 28. It has a Root Protection Area of 15m which is the maximum distance that can be requested. It is only 10-11m from the adjacent properties and has a crown spread of over 12m radius.
- In relation to the northeastern boundary, property 4 is only 3m from the boundary. The hedge and crowns of the trees spread some 4m into the site and the Root Protection Area is some 7m from the boundary. A greater distance is required from the boundary.
- The house in plot 26 appears to be within the Root Protection Area of Lime 9 with the crown up to the side of the property. The Root Protection Area is 10.8m.
- There are 2 areas of scrub sycamore and willow indicated on the drawing. These are of low value and should be cleared.

7.2. Proximity of trees to structures:

Please see section 7.1.

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8. Arboricultural method statement and tree protection plan:

When trees are retained then the Root Protection Areas indicated on the attached drawing should be protected during development. The protected areas will be the Construction Exclusion Zones. Fencing must be erected prior to any demolition or construction works commencing. No storage of materials, mixing of concrete, parking of vehicles etc is to take place within the protected areas designated on the attached drawing. These areas to be protected with secure fencing which will prevent access throughout the development and which will be installed prior to starting and not be removed until completion. Depending on the scale of the development and the trees to be protected, the protection fencing should be appropriate to the degree of protection required. In my opinion, the fencing may be 'Heras-type' fencing some 2m tall with supports *driven* into the ground. The fencing must be clearly labeled "TREE PROTECTION, DO NOT MOVE".

All fencing should be checked on site by a Tree Consultant to ensure it is placed in the correct locations and is adequate for the purpose.

The actual locations of the Construction Exclusion Zones have yet to be determined.

9. Non-dig roads and driveways

Method statement for the Construction of Non-dig roads and driveways;

Not applicable.

10. Tree works:

All tree works should be carried out prior to installing the Construction Exclusion fencing.

11. Restrictions:

No felling or tree clearance should be carried out without approval as trees within the site are covered by Tree Preservation Order.



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Ref	Species	Ht (m)	Stem Dia (mm)	Crown Spread		Ht cr	A Cl	P C	S C	Other Comments	Preliminary Management Recommendations	Sule	T Q A	Ph
				N	E									
1	Sycamore	11	300	N S W E	4 5 4 4	1	M A	G	G	Sound and healthy.	No urgent action required.	40+	B	23
2	Lime	16	600	N S W E	6 6 6 6	0	M A	F	F	Hole present from ground level to 2m with cavity running down centre of stem. Leans north to 5 degrees from vertical. Previously pollarded at 7m and regrown. Deadwood through crown.	Fell. Not suitable for retaining in housing development due to potential risk.	5-10	R	24 25 26
3	Beech	17	627	N S W E	8 12 8 7	0	M	G	F	Broken branch stump at 5m east with cavity extending down to main stem. Long branch attached to cavity at north east.	Fell. Not suitable for retaining in housing development due to potential risk.	5-10	R	27 28 29
4	Horse Chestnut	17	812	N S W E	4 11 5 5	2	M			Bark fissure present from 1.5 - 9m north possibly due to lightening. Decay wound at ground level east ~600mm x 400mm in size. Bark damage ground level south ~850mm x 500mm at base forming a triangle. Some decay in base. Pocket present in main stem at 5m above ground level to the south which extends into centre of main stem. Increasing risk of stem breakage.	Fell. Not suitable for retaining in housing development due to potential risk.	5-10	R	30 31 32 33
5	Felled													

DEVELOPMENT CONTROL SECTION
13 SEP 2010
DATE RECEIVED

Appendix No.1	Location: Truelove Properties, Palmer Lane, Barrow on Humber	Date 16th July 2010
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6	Sycamore	21	1040	<table border="1"> <tr><td>N</td><td>2</td></tr> <tr><td>S</td><td>12</td></tr> <tr><td>W</td><td>8</td></tr> <tr><td>E</td><td>10</td></tr> </table>	N	2	S	12	W	8	E	10	3	M	F	F	Very unbalanced to northern half. Has been overshadowed by adjacent mature tree that has now been felled. Main stem forks at 1.5m. Junction appears broad and safe.	Suitable as open space tree but not close to housing. Fell in relation to development.	10-20	C	34 35
N	2																				
S	12																				
W	8																				
E	10																				
7	Horse Chestnut	23	1140	<table border="1"> <tr><td>N</td><td>8</td></tr> <tr><td>S</td><td>10</td></tr> <tr><td>W</td><td>7</td></tr> <tr><td>E</td><td>8</td></tr> </table>	N	8	S	10	W	7	E	8	1	M	F	F	Large stem cavity on north side from 1-1.5m. Goes into to the centre of the main stem. Other points of decay around ground level. Slime flux present east side from 0.5-1m. Next to main footpath and highway.	Suitable as open space tree but not close to housing. Fell in relation to development.	5-10	R	36 37 38 39
N	8																				
S	10																				
W	7																				
E	8																				
8	Sycamore	25	1220	<table border="1"> <tr><td>N</td><td>13</td></tr> <tr><td>S</td><td>14</td></tr> <tr><td>W</td><td>12</td></tr> <tr><td>E</td><td>13</td></tr> </table>	N	13	S	14	W	12	E	13	3	O	G	G	Deadwood present through crown. Main fork in stem at 2.5m above ground level. Broad and sound. Very large tree which needs adequate open space.	Clean crown of all obvious deadwood.	40+	A	40 41
N	13																				
S	14																				
W	12																				
E	13																				
9	Lime	26	900	<table border="1"> <tr><td>N</td><td>8</td></tr> <tr><td>S</td><td>8</td></tr> <tr><td>W</td><td>8</td></tr> <tr><td>E</td><td>8</td></tr> </table>	N	8	S	8	W	8	E	8	0	O	G	G	Ivy present to 7m above ground level. Rotten section of branch at 10m above ground level. Overhangs adjacent garden.	Branch removal to minimise decay problem. Reduce crown to south to reduce weight where decay is present.	30-40	B	42 43
N	8																				
S	8																				
W	8																				
E	8																				
10	Sycamore	18	600	<table border="1"> <tr><td>N</td><td>6</td></tr> <tr><td>S</td><td>6</td></tr> <tr><td>W</td><td>6</td></tr> <tr><td>E</td><td>6</td></tr> </table>	N	6	S	6	W	6	E	6	0	M	G	G	Ivy present to 10m above ground level. Appears sound and healthy.	Cut ivy at ground level and leave to die off.	40+	A	44
N	6																				
S	6																				
W	6																				
E	6																				
11	Felled																				

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12	Silver Birch	20	400	N	6	3	M	G	G	Sound and healthy.	No urgent action required.	30-40	B	45
				S	6									
				W	6									
				E	6									
13	Sycamore	18	600	N	8	2	M	G	G	Ivy to 10m. Sound and healthy.	No urgent action required.	30-40	B	46
				S	8									
				W	8									
				E	8									
G1	Beech Lime	20	<950	-		2	M	F	F	Row of trees just outside boundary. Hedge and crown spreads extend ~4m into site. Maximum breast height diameter of boundary trees is Beech 900mm and Lime 950mm.	No urgent action required.			47
				-	-			48						
				G	G			49						

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EXPLANATION OF TERMS

Key:

Age class (AC)	Physiological condition (PC)	Structural Condition (SC)	Tree quality assessment based on BS5837:2005 (TQA)	OTHER HEADINGS	
Y – Young	G - Good	G – Good	R -Trees in such a condition where any existing value would be lost within 10 years	Ref – Reference number which may refer to a tag attached to the tree	Ht Cr – Height from ground level to lowest branches of crown.
MA – Middle aged	F – Fair	F – Fair	A -Trees of high quality and value	Species – Common name with latin name (if considered necessary)	SULE – Safe Useful Life Expectancy (Estimated remaining contribution in years)
M – Mature	P – Poor	P - Poor	B -Trees of good quality and value	Ht – Overall height in metres	
OM – Over mature	D – Dead or dying	D – Dead or dying	C -Trees of low quality and value (trees in this category should not be retained where they impose significant constraints on development or management)	Stem Dia – Diameter of stem at 1.5m above ground level	Ph. – Photograph number
V - Veteran				Crown Spread – Spread of branches to the 4 cardinal points	gl – ground level

Where trees are considered for felling, a replanting scheme should be prepared to ensure that there are an adequate number of replacements of suitable species to provide for the long term environmental impact of the scheme and to provide for a sustainable development.