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26 Cross Lane, Royston, Barnsley – Tree Survey



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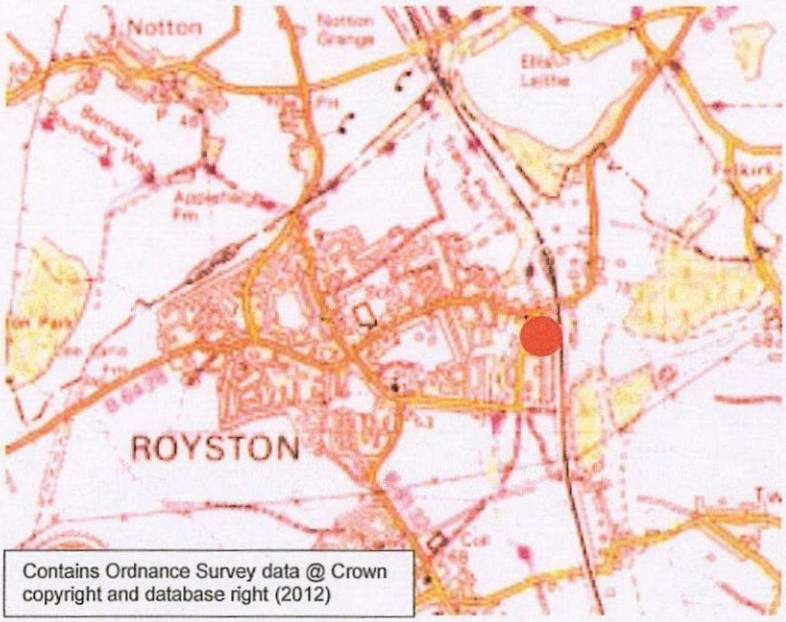
Figure 2 – Tree Survey Plan (L3604/01)

1. Introduction

1.1 Ecus Limited were commissioned by William Smith (Wakefield) Ltd to undertake a tree survey on land to the rear of 26 Cross Lane in Royston, Barnsley. The site location is shown on Figure 1 below.

1.3 The survey has been undertaken in relation to proposals for a new residential development. This report sets out the findings of the survey and relates these to the development proposals with recommendations for mitigation measures for potential impacts to trees. Recommendations have also been made for further work that may be required.

Figure 1 – Location Plan



Contains Ordnance Survey data @ Crown copyright and database right (2012)

2. Methodology

2.1 Tree Survey

2.1.1 Ecus carried out the tree survey in July 2012 when the trees were in leaf. The tree survey was a ground based visual inspection carried out by a landscape architect. The trees were not tagged as part of the survey.

2.1.2 The following characteristics were recorded:

- Species
- Stem diameter at 1.5m above ground level (mm).
- Estimated height (m)
- Approximate crown diameter (m) as North, South, East and West measurements.
- Safe Useful Life Expectancy (an estimate of the number of years that the tree is *likely to remain suitable for retention*).

  0 (dead/dying) = less than 10 years

  S (short) = 10-20 years

  M (medium) = 20-40 years

  L (long) = more than 40 years

- Age class

  YNG = Young trees age less than 1/3 life expectancy

  SM = Middle age trees 1/3 – 2/3 life expectancy

  M = Mature trees over 2/3 life expectancy

  OM = Over mature – declining or moribund trees of low vigour

- Condition category in accordance with *BS5837: Trees in relation to the design, demolition and construction recommendations (2012)*. The categories listed are defined as per BS5837:2012 and briefly are:

  U = Those in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years

  A = Those of high quality and value - best trees with a long expected safe life

  B = Those of moderate quality and value

  C = Those of low quality and value and trees less than 15cm diameter

- Value subcategories in accordance with *BS 5837:2012*. The subcategories listed are defined as per BS5837:2012 and briefly are:

1 = Mainly arboricultural values

2 = Mainly landscape values

3 = Mainly cultural values, including conservation

- General notes about physiological and structural condition and any management recommendations.
- Any estimated dimensions are clearly identified with an '#'.

2.1.3 A topographic survey of the site was provided. This was used as the basis for producing the tree survey plan. Some of the trees that were not shown individually on this plan were noted during the site survey and these have been added onto the survey drawing with an approximation of their location.

2.1.4 The survey also included identification of any existing designations affecting trees on site such as Tree Preservation Orders and Conservation Area status by consulting with Barnsley Metropolitan Borough Council officers.

3. Survey Results

3.1 General Site Description

3.1.1 The site consists of a grassed area with several areas of trees and bushes. The site is currently used as pasture for horses. The surrounding land use is predominantly residential.

3.2 Results of Tree Survey

3.2.1 Table 1 describes the results of the trees surveyed and should be read in conjunction with Figure 2 Tree Survey Plan. The survey plan illustrates the location of the trees surveyed and the extent of their canopies.

3.2.2 The trees are scattered across the site. The majority of trees surveyed have been classified as C (low quality and value) with three trees T3 Sycamore, T30 Apple and T39 Lime classified as category B (moderate quality and value) and some category U *trees (to be removed). There were no category A trees (high quality and value)* identified on site. Tree retention should favour the higher category trees.

3.2.3 The majority of the Eucalyptus trees which are at various locations across the site have been affected by the 2012 late spring frosts and heavy rainfall. Many new shoots and branches of the trees have died in most cases leaving only the shoots to the tops of the trees above the frost line and recent new shoots alive. The full extent of the dieback will not be clear until later in the growing season or next spring. It is recommended that the category C eucalyptus trees are monitored in spring 2013 to observe whether the foliage has regenerated. Trees should be pruned to remove dead wood or felled and removed if they are found to be dead or dying.

3.3 Tree Designations

3.3.1 Barnsley Metropolitan Borough Council confirmed that there are no Tree Preservation Orders (TPO) on the site and the site is not within or next to a Conservation Area.

4. Appendix 1 – Table and Figures

Table 1 - Tree Survey Schedule

ID REF (Ecus notation on site)	Common Name	DBH (Diameter of tree stem at 1.5m height m) (in mm)	RPA (Radius of Root Protection Area in mm)	Estimated Height (in m)	Estimated Crown Spread (N, S, E & W in m)	Safe Useful Life Expectancy	Age Class	BS5837: 2012 Category	Comments & Recommendations
G1	Lawsons Cypress	150 avg	1800	8	1N, S, E & W	M	SM	C2	Overgrown hedge. Group of five trees growing close together.
T2	Fir	# 200	2400	8	2N, S, E & W	L	SM	C1	
T3	Sycamore	200	2400	7	2N, S, E & W	L	SM	B1	2 plastic pipes nailed to stem at 0.7m and 1m high. **Recommendation: remove pipes and nails.**
T4	Cherry	120	1440	4	1N, S, E & W	M	Y	U	Previously pollarded to 3m high. Plastic pipes nailed to stem at 0.3m and 0.5m. Little regeneration from pollarding, poor form. **Recommendation: fell and remove.**

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T5	Oak	150	1800	4	1N, S, E & W	M	Y	U	Previously pollarded at 3m high. Poor form. Plastic pipes and wooden rail nailed into stem at 1m. **Recommendation: fell and remove.**
T6	Ash	130	1560	6	1N, 2S, 2E & 2W	L	Y	C1	
T7	Cherry	130	1560	7	1.5N, 1.5S, 1E & 1W	M	Y	C1	
T8	Whitebeam	70 + 120	2280	8	2N, 2S, 1.5E & 1.5W	M	Y	C1	Twin stemmed at 1.5m high.
T9	Cherry	200	2400	8	4N, 4S, 4E & 2W	M	SM	C1	Lack of foliage to base of canopy possibly due to frost damage. Lots of dead wood. **Recommendation: remove dead wood.**

ID REF (Ecus notation on site)	Common Name	DBH (Diameter of tree stem at 1.5m height m) (in mm)	RPA (Radius of Root Protection Area in mm)	Estimated Height (in m)	Estimated Crown Spread (N, S, E & W in m)	Safe Useful Life Expectancy	Age Class	BS5837: 2012 Category	Comments & Recommendations
T15	Ash	200	2400	11	3N, S, E & W	L	SM	C1	
T16	Sycamore	300	3600	10	4N, S, E & W	L	SM	C1	
T17	Hawthorn	150 + 100	3000	7	2N, 1S, 2E & 1.5W	S	SM	U	Dying. Very little foliage. **Recommendation: fell and remove.**
G18	3 Plum and 1 Hawthorn	200, 200 + 100, 150, 150, 150 + 100	6000, 1800, 1800, 3000	7	2N, S, E & W	L	SM	C2	Group of four trees.
T19	Hawthorn	70, 100 x3 + 150	6240	7	3N, S, E & W	L	SM	C1	

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G10	Hawthorn and Sycamore	Avg 100	1200	4-7	2.5N, S, E & W	L	Y	C2	Dense group of trees.
G11	Hawthorn	150 + 100 twin at 0.5m. 150 + 200 twin from base. 100, 100 + 100 triple stemmed from 1m.	3000, 4200 & 3600	7	2.5N, S, E & W	L	SM	C2	Group of 3 trees.
T12	Eucalyptus	350		9	4N, 4S, 4E & 2W	S	M	U	Dying back leaving only a small amount of foliage to the base of the canopy. Dead wood to top of tree. Unlikely to recover from frost and heavy rain damage. **Recommendation: fell and remove.**
T13	Hawthorn	100 + 150	3000	5	2N, S, E & W	L	SM	C1	Elder and Nettles growing at base of tree. **Recommendation: remove Elder and Nettles.**
G14	Hawthorn	100 + 100	2400	6	1.5N, S, E & W	M	SM	C2	

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T20	Hawthorn	50, 70x3, 100	4320	7	2.5N, S, E & W	L	SM	C1	
G21	Eucalyptus	300, 200	6000	12	4N, 3S, 4E &3W	S	SM	C2	Lack of foliage and dead wood due to frost and heavy rain damage. **Recommendation: remove dead wood and monitor in Spring to assess if tree requires pruning or removal.**
G22	Lawson's Cypress	150, 120, 250	6240	10	1N, S, E & W	L	SM	C2	Group of 3 trees.
T23	Horse Chestnut	150	1800	8	2.5N, 2S, 2.5E & 2W	L	Y	C1	
T24	Plum	200, 300	6000	8	3N, 2S, 2E & 2W	M	SM	C1	
T25	Apple	200x2	4800	7	4N, 4S, 4E & 3W	M	SM	C1	

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T26	Hawthorn	100x2, 200	4800	8	3N, S, E & W	L	SM	C1	
T27	Apple	180, 150	3960	6	2N, 4S, 4E & 2W	M	SM	C1	1 stem leaning towards the north-west. Some dead wood. **Recommendation: remove dead wood.**
T28	Apple	300, 200, 150	7800	10	3N, S, E & W	M	SM	C1	Some dead branches. **Recommendation: remove dead branches.**
T29	Sycamore	250	3000	10	3N, 2S, 2E & 3W	L	SM	C1	Ivy growing up stem. Slight lean to the south due to proximity of T28.
T30	Apple	400	4800	10	4N, S, E & W	L	M	B1	Some dead wood. Elder growing at base. **Recommendation: remove dead wood and Elder.**

ID REF (Ecus notation on site)	Common Name	DBH (Diameter of tree stem at 1.5m height m) (in mm)	RPA (Radius of Root Protection Area in mm)	Estimated Height (in m)	Estimated Crown Spread (N, S, E & W in m)	Safe Useful Life Expectancy	Age Class	BS5837: 2012 Category	Comments & Recommendations
G31	Eucalyptus	200x2	4800	10	1.5N, S, E & W	S	SM	C2	Group of 2 trees. Lack of foliage and dead wood due to frost and heavy rain damage. **Recommendation: remove dead wood and monitor in Spring to assess if tree requires pruning or removal.**
T32	Hawthorn, Elder, Lawson's Cypress and Cedar	Avg 150	1800	8	1.5N, S, E & W	M	Y	C2	Group of trees.
T33	Apple	400, 120x2	7680	8	2N, 3S, 3E & 3W	L	SM	C1	
T34	Apple	500	6000	11	4N, 3S, 5E & 3W	L	M	C1	
T35	Eucalyptus	250	3000	10	2N, S, E & W	S	SM	C1	Ivy growing up stem. Lack of foliage and dead wood due to frost and heavy rain damage. **Recommendation: remove dead wood and monitor in Spring to assess if tree requires pruning or removal.**

ID REF (Ecus notation on site)	Common Name	DBH (Diameter of tree stem at 1.5m height m) (in mm)	RPA (Radius of Root Protection Area in mm)	Estimated Height (in m)	Estimated Crown Spread (N, S, E & W in m)	Safe Useful Life Expectancy	Age Class	BS5837: 2012 Category	Comments & Recommendations
T36	Apple	200x2	4800	8	1.5N, S, E & W	M	SM	C1	Suppressed by T37.
T37	Apple	300	3600	9	84N, S, E & W	L	SM	C1	Some dead wood. **Recommendation: remove dead wood.**
T38	Cotoneaster	150, 70	2640	8	2.5N, 3S, 3E & 3W	M	Y	C1	
T39	Lime	200	2400	9	3N, S, E & W	L	SM	B1	
T40	Apple	100, 150, 120	4440	7	4N, 2S, 3E & 2W	M	SM	C1	Some dead wood. **Recommendation: remove dead wood.**
T41	Sycamore	150	1800	8	4N, 3S, 5E & 3W	M	Y	C1	

ID REF (Ecus notation on site)	Common Name	DBH (Diameter of tree stem at 1.5m height m) (in mm)	RPA (Radius of Root Protection Area in mm)	Estimated Height (in m)	Estimated Crown Spread (N, S, E & W in m)	Safe Useful Life Expectancy	Age Class	BS5837: 2012 Category	Comments & Recommendations
T42	Eucalyptus	300, 150	5400	11	4N, 3S, 5E & 3W	L	SM	C1	
T43	Eucalyptus	200	2400	10	2N, 2.5S, 2E & 2W	L	SM	C1	
T44	Purple Plum	100	1200	5	2N, 1.5S, 2E & 2W	L	Y	C1	Some dead wood. **Recommendation: remove dead wood.**
T45	Dead tree	# 200	2400	10	1N, S, E & W	S	SM	U	Dead tree. Ivy growing up stem. **Recommendation: fell and remove.**
T46	Eucalyptus	300	3600	12	3N, S, E & W	M	SM	C1	Lack of foliage and dead wood due to frost and heavy rain damage. **Recommendation: remove dead wood and monitor in Spring to assess if tree requires pruning or removal.**

5. Appendix 2 - Site Photographs



T12 Eucalyptus



T39 Lime