Job Number 1196 Date December 2006

Barugh Green, Barnsley

Arboricultural Survey

Landscape Architects ■ Urban Designers ■ Ecologists ■ Horticulturists

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1.0 Introduction

The site was surveyed on Wednesday the 7th December., The arboricultural survey was carried out to BS 5837: 2005 and all trees within the site have been tagged. The tree survey was base on a previous survey undertaken in 1999 by Iain Tavendale

1.1 Site Description

The site is located on land bounded by Claycliffe Road to the north and Barugh Green Road to the south east, in addition the to the southwest of site lies a water course set in a deep cutting. A third of the site has already been developed and supports a pub along with extensive car parking areas. The remainder of the site once supported a nursery or horticultural business the remains of buildings associated with this use still being visible the area is however derelict.

Since the 1999 survey a significant number of trees have been removed, particularly around the middle of the site. In addition a significant number of trees have put on a considerable amount of growth, particularly the poplars to the south of the site and to the north west of the site. There is a limited variety of tree species present the main trees being Oak (Quercus petrea), Poplar (Populus sp), Horse Chestnut (Aesculus hippocastanum), Lawsons Cypress (Chamaecyparis lawonsiana). There is generally little in the way of conditional change although the Horse Chestnut within the car park is now exposing lightly wormed wood and with require monitoring.

The trees generally add to the landscape of the area significantly, particularly the isolated chestnuts and the poplars along the south west corner.

2.0 Aims and Methodology

2.1 Aims

The aims of the survey are to undertake a non-invasive survey of all trees contained within the site and all trees outside the site boundary, which are of an equal distance to twelve times their stem diameter from the boundary.

2.2 Survey Methodology

The survey was carried out to British Standard 5837:2005, using the categories explained below:

2.2.1 The trees were assessed visually from ground level. Where potential problems were identified, further inspection by tree climbing is recommended. No digging or drilling methods were employed during this survey;

2.2.2 The tree numbers within the schedules refer to the order in which the trees were recorded;

2.2.3 The approximate height of each tree is measured from ground level to top of canopy using a clinometer;

2.2.4 The approximate diameter of each tree is measured at 1.5m above ground level using a tape measure. Many trees are not measured due to inaccessibility.

2.2.5 The age of each tree is based upon our experience;

2.2.6 The physiological condition of the trees is based upon our experience;

2.2.7 The structural condition and description is also based on our experience.

2.2.8 Both the approximate expected lifespan remaining and category / rating of each tree is based on our experience;

2.2.9 The retention category of each tree or group of trees is based upon the information detailed above using the following categories:

A	**Trees of high quality and value**	**(Light green on plan)**
B	**Trees of moderate quality and value**	**(Mid blue on plan)**
C	**Trees of low quality and value**	**(Grey on plan)**
R	**Trees to be removed for arboricultural reasons**	**(Dark red on plan)**

2.2.10 The following subcategories have been used in rating tree value:

1	**Mainly arboricultural value**
2	**Mainly landscape value**
3	**Mainly cultural values, including conservation**

4.0 Root Protection Areas

The extent to which a tree may represent a constraint to development will depend both upon the location of the trunk and size and nature of the canopy and also the extent of the roots below ground. The tree survey drawing plots the location and extent of the tree above ground and through application of the calculation provided in section 5.2.2 of the BS 5837: 2005 recommendations; the extent of the root protection area has been plotted on the survey drawing.

The root protection area represents a potential constraint to development which may be modified in pattern, although not overall area, by existing site conditions such as structures, soil types and drainage, and an appreciation of the nature of particular tree species and root morphology.

Within the tree root protection area there should be a presumption against excavation, construction, or changes in ground level unless consideration is given to the potential effects on the tree to be retained and the efficacy of any construction techniques designed to reduce adverse effects on the tree.

5.0 Above Ground Constraints

The potential for retaining trees on a development site includes the extent of the influence of the tree at the time of survey and consideration is also given to the effects of future growth within the context of the proposed development. In addition the potential nuisance caused by shading to new buildings both after construction and also once trees reach their ultimate size is also considered.

Tree Survey Warm Lane, Yeadon

Tree Ref No	Tree ID No	Species	Height m	Stem Dia m	Branch Spread m	Height of crown clearance	Age Class	Physiological condition	Structural Condition	Preliminary management recommendations	Estimated remaining contribution (years)	Category Rating
1	-	Fraxinus excelsior	11m	550	N 6m E 5m S 6m W 4m	4m	Mature	good	Forked at 1.5m, open habit	NWR	30-50	B2
2		Removed			N m E m S m W m							
3		Removed			N m E m S m W m							
4		Removed			N m E m S m W m							
5		Removed			N m E m S m W m							
6		Removed			N m E m S m W m							

Tree ref	Tree ID No	Species	Height m	Stem Dia m	Branch Spread m	Height of crown clearance	Age Class	Physiological condition	Structural Condition	Preliminary management recommendations	Estimated remaining contribution (years)	Category Rating
7		Removed			N m E m S m W m							
8		Removed			N m E m S m W m							
9		Removed			N m E m S m W m							
10		Removed			Nm E m S m W m							
11		Removed			N m E m S m W m							
12		Removed			N m E m S m W m							

Tree ref	Tree ID No	Species	Height m	Stem Dia m	Branch Spread m	Height of crown clearance	Age Class	Physiological condition	Structural Condition	Preliminary management recommendations	Estimated remaining contribution (years)	Category Rating
13 G		Populus sp	18m	550mm	See plan	2m	Mature	Good	No obvious defects	Crown lift	20-30	B2
14		Aesculus hippocastanum	17m	900mm	N 6m E 8m S 9.5m W 7m	3m	Mature	Good	Wound at 500mm, exposing timber becoming wormed	Monitor	20-30	B/C2
15		Aesculus hippocastanum	17m	850mm	N 5 m E 7m S 7m W 6 m	Mature	Mature	Good	No obvious physical defects	Crown lift	30	B2
16		Aesculus hippocastanum	16m	900mm	N 5m E 5m S 5m W 5m	2m	Mature	fair	Vigour reduced should be monitored	Canopy clean	20-30	B
17		Quercus	16	850mm	N 5m E 7m S 7m W 7m	3m	Mature	Good	Notable breaks and die back	Address breaks and die back	30-50	B2
18		Removed			N m E m S m W m							

Tree ref	Tree ID No	Species	Height m	Stem Dia m	Branch Spread m	Height of crown clearance	Age Class	Physiological condition	Structural Condition	Preliminary management recommendations	Estimated remaining contribution (years)	Category Rating
19 G		Quercus 3No	7m	275	N 3m E4 m S 3m W 3 m	1.5m	Mature	Good	One forked from base others slightly contorted	Crown lift	30-50	B2
20		Populus sp	15m	Av 250mm	N 3 m E 4m S 4m W 3m	nil	Mature	Good	Poor shape, very multi stemmed	Crown lift	30-50	B/C2
21		Populus sp	18m	300mm	N 3 m E 4m S 5m W 5m	nil	Mature	Good	Branched from very low level	Crown lift	30-50	B2
22		Populus sp	17m	450mm	N 3m E 4.5m S 4m W 4 m	1m	Mature	Good	Branched from low level. Leans to the south east	Crown lift	30-50	B2
23		Populus sp	18m	400mm	N 5m E 5m S 4m W 3m	1.5m	Mature	Good	Curving trunk branched from low level	Crown lift	30-50	B2
12		Removed			N m E m S m W m							


CLAYCLIFFE ROAD
19 (group)
17
16
15
14
23
22
21
20
ROUGH GRASS
AREA OF SMALL TREES
RED TARMAC
TARMAC
BRICK BUILDING
CONCRETE
PAVED
AREA OF BUSHES
13 (group)
1
BARUGH GREEN ROAD
KEY
Tree retention category A
Tree retention category B
Tree retention category C
Tree retention category R
Root protection zone
NORTH
SMEEDEN FOREMAN
Project
Barugh Green
Title
Arboricultural Survey
Scale
1:250 @ A1
Drawn by
NB
Date
Dec '06
Checked
TF
Project No.
SF1196
Drawing No.
S01
Rev
Ecologists - Horticulturists