







Boverton, Vale of Glamorgan

**Arboricultural Survey** 

For

**Barratt Homes South Wales** 

Project No.: ABAW105 / 001 / 002

August 2014





#### London & South East

Compass House Surrey Research Park Guildford GU2 7AG . UK

t: +44 (0)1483 466 000

#### North & Borders

Calls Wharf 2 The Calls Leeds LS2 7JU . UK

t: +44 (0)113 247 3780

#### Wales & South West Williams House

11-15 Columbus Walk CF10 4BY . UK

t: +44 (0)2920 020 674

Scotland 20-23 Woodside Place Glasgow G3 7QF . UK

t: +44 (0)141 582 1333

#### Midlands & East

**Business Centre East** Fifth Avenue Letchworth SG6 2TS . UK

t: +44 (0)1462 675 559

#### Enquiries

e: enquiries@thomsonecology.com

w: www.thomsonecology.com







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	Name	Signature	Position
Author	Sam Lowe		Head of Arboriculture
Checker	Marion Thomson		Principal Ecologist
Approved By	Barry Wheeler		Principal Ecologist

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## Contents

1.	Sum	ımary	5
2.		duction	
	2.1	Development Background	6
	2.2	Site Description	
	2.3	Brief and Objectives	6
	2.4	Limitations	6
3.	Meth	nodology	8
	3.1	Desk Study	8
	3.2	Tree Survey	8
4.	Res	ults	12
	4.1	Desk Study	12
	4.2	Tree Survey	12
5.	Rec	ommendations	13
	5.1	Site Specific Guidance	13
	5.2	Tree Protection	13
	5.3	General Recommendations	14
6.	Refe	erences	15
7.	App	endix 1 - Tree Schedule	16
8.	App	endix 2 - Table of Quality Assessment	23

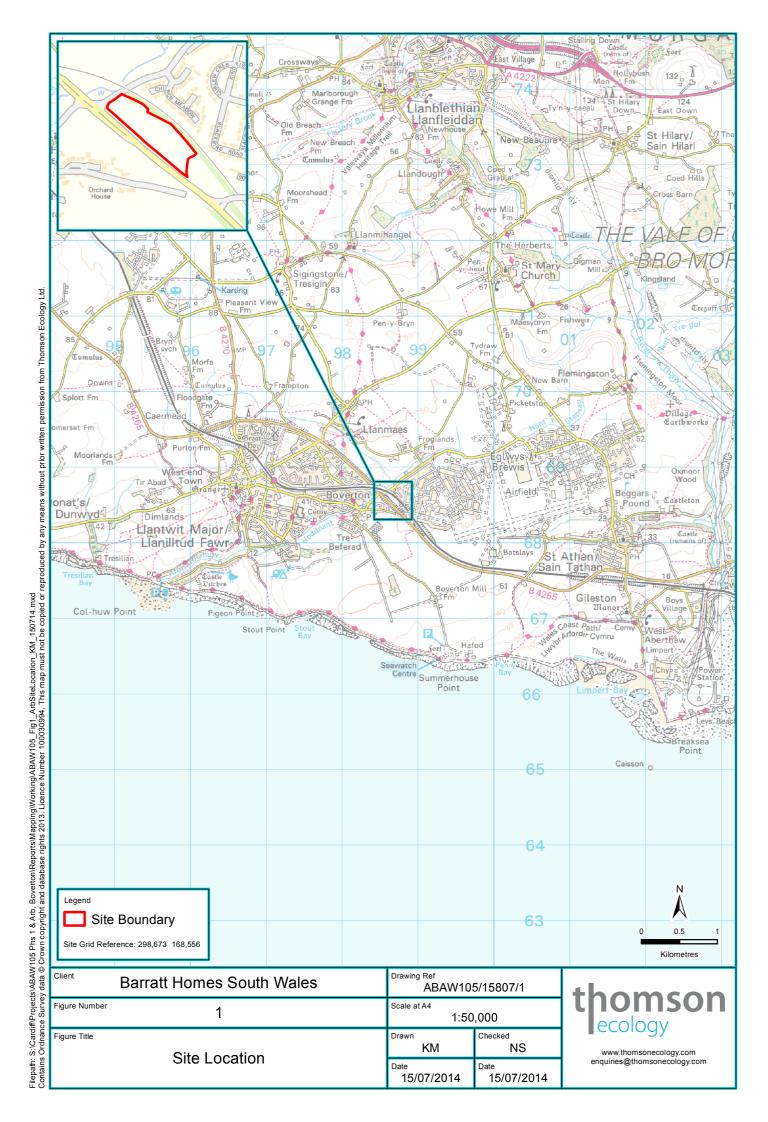
FIGURE 1: SITE LOCATION

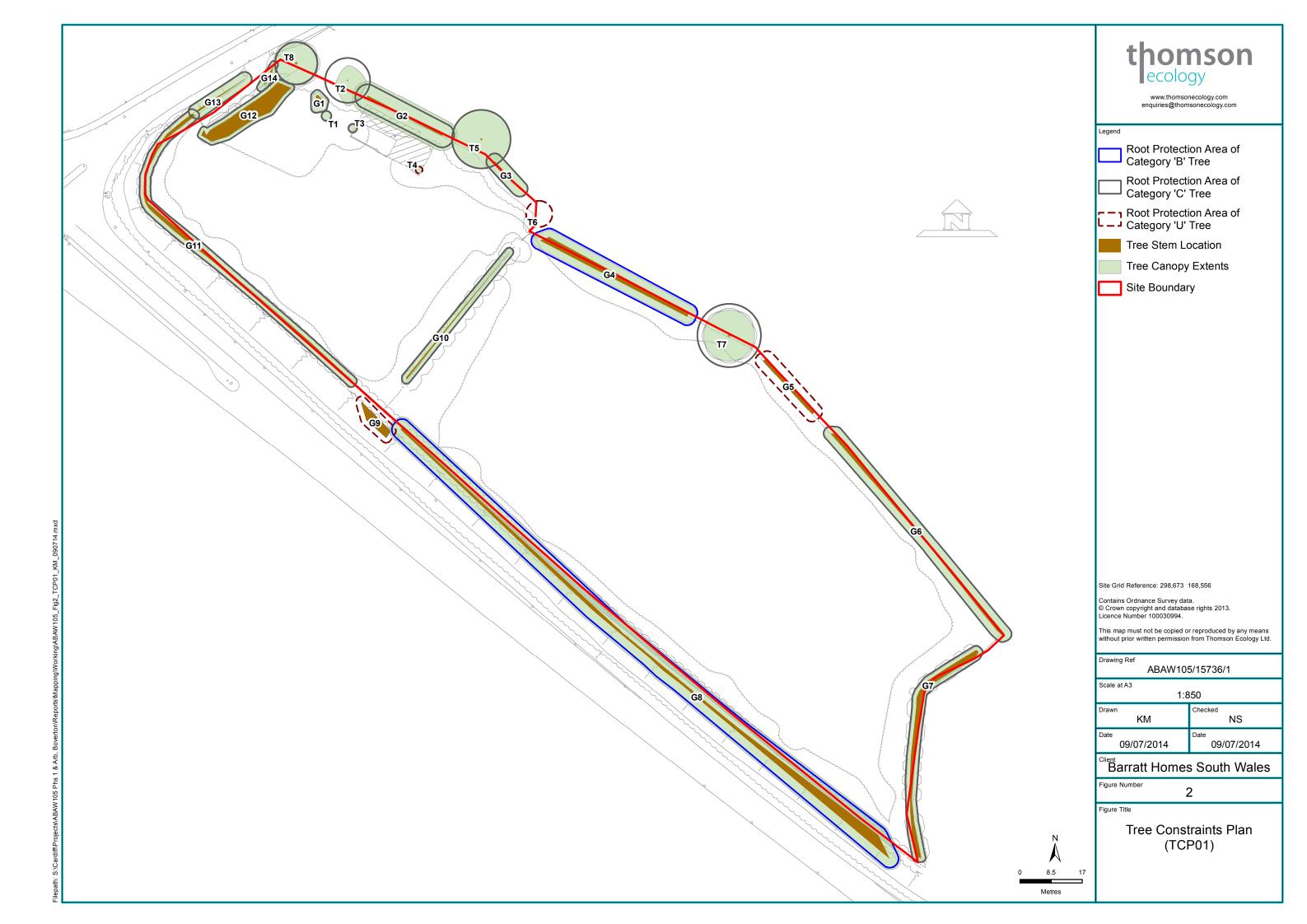
FIGURE 2: TREE CONSTRAINTS PLAN (TCP01)



### 1. Summary

- 1.1.1 Barratt Homes South Wales is proposing the redevelopment of a plot of land in Boverton, Vale of Glamorgan. The proposals are currently involves the construction of 64 new residential units.
- 1.1.2 Barton Willmore LLP commissioned Thomson Ecology on behalf of Barratt Homes South Wales to undertake an arboricultural survey of up to 40 trees within and adjacent to the site. This document details the survey methodology and results of the arboricultural survey only. The arboricultural survey was carried out in accordance with BS5837:2012 'Trees in Relation to Design, Demolition and Construction Recommendations' (BSI, 2012).
- 1.1.3 All trees were categorised in accordance with the cascade chart in BS5837:2012. Trees were given a ranking of A, B or C in descending order of value and assigned one or more subcategories, qualifying the basis of that value as either arboricultural, landscape or cultural. Trees with only short-term remaining value or that require immediate removal for safety or management reasons are given a U rating.
- 1.1.4 A total of eight individual trees and 14 groups were recorded during the survey and listed in the Tree Schedule (see Appendix 1). The survey recorded two Category B groups, six Category C trees, 10 Category C groups, two Category U trees and two Category U groups located within or adjacent to the site.
- 1.1.5 Category B and C trees represent a material consideration to development. Strong effort should be made to retain Category B trees within the development. While Category C trees should be retained where possible, they should not be retained where they would present a serious constraint to development.
- 1.1.6 It is recommended that an Arboricultural Impact Assessment (AIA) and Arboricultural Method Statement (AMS) are undertaken once detailed plans of the proposed layout are available.







### 2. Introduction

#### 2.1 Development Background

- 2.1.1 Barratt Homes South Wales is proposing the development of a site located on the B4265, Boverton, Vale of Glamorgan, for 64 residential units. These proposals are hereafter referred to as 'the development'.
- 2.1.2 The development is located on an approximately 1.85 ha area of land (grid reference SS9867868567), shown on Figure 1. The area affected by the development is hereafter referred to as 'the site'.
- 2.1.3 There are a number of trees around the site boundary that may be affected by the development.
- 2.1.4 Detailed draft development plans have been drawn up (ref: 1363 TP-01) and a planning application is to be submitted to the Vale of Glamorgan Council later in 2014.

#### 2.2 Site Description

2.2.1 The site comprises two field parcels separated by a group of small trees and scrub and is currently accessed from the north-west corner. It is located between the B4265 to the south and a railway line to the north. A small single-storey structure is located towards the site entrance.

#### 2.3 Brief and Objectives

- 2.3.1 Barton Willmore LLP, on behalf of Barratt Homes South Wales, commissioned Thomson Ecology on 3<sup>rd</sup> July 2014 to undertake an arboricultural survey of the site, including the production of a Tree Schedule (see Appendix 1) and a Tree Constraints Plan (TCP).
- 2.3.2 The objective of the survey and report was to assess the condition of the existing trees on site and any off-site trees that might be affected by the development, providing sufficient information to enable decisions to be made on potential design layout and tree retention for the proposed development. The brief was to:
  - Conduct an arboricultural survey of up to 40 trees (grouped where deemed appropriate), within or immediately adjacent to the site (as defined by the plan provided), in accordance with standards set out in BS5837:2012 Trees in Relation to Design, Demolition and Construction Recommendations (BSI, 2012);
  - Undertake a desk study to determine the presence of any Tree Preservation Orders or Conservation Area restrictions at the site;
  - Produce a report of our methods and the results, including a Tree Schedule; and
  - Produce a Tree Constraints Plan (TCP).

#### 2.4 Limitations

2.4.1 The information provided within this report and in the accompanying Tree Schedule covers only those trees that were inspected and their condition at the time of survey.



- 2.4.2 While this report makes general observations on the long term potential of the trees surveyed, trees are dynamic organisms and subject to continual change, thus this report should not be relied upon for the purposes of development for more than 12 months from the date of survey.
- 2.4.3 A full hazard assessment has not been made and therefore no guarantee is given as to the structural integrity of any of the trees on site.
- 2.4.4 Where trees were clad in ivy (*Hedera helix*), or where dense epicormic growth or dense underplanting obscured the main stem, this was recorded in the Tree Schedule. The inspection of such trees is impeded and as such a further inspection may be required following the removal of the obstruction. The retention categories of such trees should be considered as provisional only.
- 2.4.5 Measurements for off-site trees have been estimated and therefore may not fully represent the related constraints.



## 3. Methodology

#### 3.1 Desk Study

3.1.1 Records of Tree Preservation Orders (TPOs) existing at the site and Conservation Areas within or adjacent to the site were sought from Vale of Glamorgan Council.

#### 3.2 Tree Survey

- 3.2.1 All significant trees at the site were assessed for their potential to be affected by the development proposals. Significant trees are defined as those with a trunk diameter of greater than 75mm at 1.5m above ground level according to the survey methodology outlined in BS5837:2012. Off-site or third party trees have been included where it is likely they would influence the development.
- 3.2.2 The trees surveyed were inspected from ground level only, were not climbed and no internal investigations were undertaken.
- 3.2.3 Trees were categorised as single trees or those that formed part of a distinct group such as a woodland or hedgerow. Groups can be defined as cohesive arboricultural features, either aerodynamically, visually or culturally (BS5837:2012). The information recorded for each tree can be seen in Table 1.

Table 1: Information recorded for each tree during survey

Attribute	Description
Tree No.	Numerical reference given in sequential order starting at number '1', corresponding with the numbers as set out in Figure 2; trees are given the prefix 'T', groups 'G', woodlands 'W' and hedgerows 'H'.
Species	The common names are based upon on site identification and expressed according to " <i>Tree Guide</i> " (Johnson & More, 2004).
Height	Measured approximately from ground level with the aid of a clinometer and shown in metres (m).
Stem Diameter	Diameter measured at approximately 1.5m above ground level. In the case of multi-stemmed trees, measurement is taken of each stem at 1.5m, where there are two to five stems; or a mean stem diameter at 1.5m, where there are more than five stems. Given in millimetres (mm).



Attribute	Description
Canopy Spread	Maximum branch spread measured in metres from the centre of the trunk in the direction of the four cardinal points of the compass (or an average can be given if branches demonstrate an even spread).
Crown Clearance	Height above ground level of the first significant branch and direction of growth, and the height above ground level of the overall canopy.
Age Class	<ul> <li>Young - less than one-third natural life span spent;</li> <li>Middle-aged - between one-third and two-thirds natural life span spent;</li> <li>Mature - greater than two-thirds life span completed;</li> <li>Over-mature - mature, and in an overall state of decline;</li> <li>Veteran - surviving beyond the typical age range for the species with a high value in terms of conservation and amenity.</li> </ul>
Physiological Condition	Overall health, condition and function of the tree in comparison to a 'normal' example of the species of a similar age; e.g. 'good', 'fair', 'poor' or 'dead'. If deemed necessary, these gradings may be elaborated upon in the 'Comments' section.
Structural Condition	<ul> <li>The overall structural condition of the tree including the roots, butt, trunk, limbs and their unions, and the presence of any structural defects, decay or pathological defects.</li> <li>Good - no significant visible structural defects with a form typical for the species;</li> <li>Fair - a specimen with only minor defects that are easily remedied or of no long term significance;</li> <li>Poor - significant and irremediable physiological or structural defects that may lead to early or premature decline;</li> <li>Hazardous - significant structural defects of such a degree that there is a risk of imminent collapse or failure. If deemed necessary, these gradings may be elaborated upon in the 'Comments' section.</li> </ul>



Attribute	Description
Comments	Comments have been made, where appropriate, relating to location, health and condition, structure and form, estimated life expectancy, conservation value and amenity value within the local landscape.
Preliminary Management Recommendations	Tree work that should be undertaken for good arboricultural management, regardless of the requirements of the development.
Estimated Remaining Contribution	The estimated time, in years, that the tree will provide a safe contribution to the site (i.e. <10, 10-20, 20-40 and >40).

#### Quality Assessment

3.2.4 During the survey, the trees were assessed qualitatively, categorising the quality and value of the trees based on arboricultural, landscape and cultural (including conservation) features. Each tree was then placed into one of four categories. The four categories can be seen in Table 2.
Definitions for these categories can be found in Appendix 2.

Table 2: Quality assessment categories

Category	Description
Category U	Trees 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.
Category A	Trees of high quality with an estimated life expectancy of at least 40 years.
Category B	Trees of moderate quality with an estimated remaining life expectancy of at least 20 years.
Category C	Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150mm.

- 3.2.5 Trees categorised as either A, B or C, were also allocated up to three subcategories. The subcategories chosen for each tree are dependent on the main reasons for selection of the particular category grading. The three subcateg ories are as follows:
  - 1. Category grading based on mainly arboricultural qualities;



- 2. Category grading based on mainly landscape qualities; and
- 3. Category grading based on mainly cultural values, including conservation.

#### Root Protection Areas (RPAs)

- 3.2.6 Trees that are selected for retention on the site could be at risk of damage during construction, such as root damage during excavations for foundations or services, or any ground-working for landscaping. Further impacts on the trees may potentially result from vehicle movements and materials storage, including root severance, compaction of the soil and exclusion of air and water to the soil. The risk of tree damage is minimised if construction activities are planned to avoid the roots of trees.
- 3.2.7 The area of ground adjacent to each tree or group of trees that contains the majority of the roots can be calculated using the equation provided in the BS5837:2012. This Root Protection Area (RPA) is a radius around the tree of 12 times the stem diameter for a single stem. For multistemmed trees of two to five stems and greater than five stems, the cumulative stem diameters to be multiplied by 12, are calculated as per the equations in Table 3.

Table 3: Equations for the calculation of the RPA of multi-stemmed trees

Number of stems	Equation
Two to five	$\sqrt{(\text{stem diameter 1})^2 + (\text{stem diameter 2})^2 + (\text{stem diameter 5})^2}$
More than five	$\sqrt{\text{(mean stem diameter)}^2 \times \text{number of stems}}$

- 3.2.8 The RPA for each tree in the Tree Schedule has been calculated and, where relevant, has been adjusted to take into account site conditions. For example, when a tree is growing in a confined root space adjacent to an existing building or other solid structure that would restrict root growth in that direction, the RPA has been adjusted accordingly (see Figure 2).
- 3.2.9 The RPA for tree groups is calculated using the stem diameter of the largest tree within the group. The RPA radius is calculated as per Section 3.2.7 and then used to define the RPA by following the outline of the group's extent.
- 3.2.10 Where the calculated RPA exceeds 707m<sup>2</sup>, it has been capped at this figure, as per BS5837:2012. This is equivalent to a circle with a radius of 15m or a square with approximately 26m sides.

#### Date of Survey

3.2.11 The site was visited and the survey undertaken on 11<sup>th</sup> July 2014 by Sam Lowe BSc (Hons) MSc TechCert(ArborA) MArborA.

#### Weather Conditions

3.2.12 The weather conditions at the time of survey were warm and sunny. Deciduous trees were in full leaf.



#### 4. Results

#### 4.1 Desk Study

4.1.1 It was confirmed by Shafqut Zahoor of Vale of Glamorgan via telephone on 14<sup>th</sup> July 2014, that no trees within the site or immediately adjacent to the site boundary are covered by Tree Preservation Orders or located within a Conservation Area.

#### 4.2 Tree Survey

4.2.1 A total of eight significant individual trees and 14 groups of trees located within or immediately adjacent to the site boundary were recorded during the survey. A breakdown of categories can be found in Table 4. The locations of all trees, RPAs, retention categories and reference numbers are shown on Figure 2. A detailed description of each tree is given in the Tree Schedule in Appendix 1.

Table 4: Number of significant trees allocated to each retention category

	Category A Trees and Groups	Category B Trees and Groups	Category C Trees and Groups	Category U Trees and Groups
Number of Trees and Groups in Category	0	2	15	4
Tree and Group Numbers	-	G4, G8	T1, T2, T3, T5, T7, T8, G1, G2, G3, G6, G7, G10, G11, G12, G13, G14	T4, T6, G5, G9

4.2.2 The subcategories assigned to each tree and group surveyed can be seen in the Tree Schedule in Appendix 1. A list of the criteria used to determine the category and subcategories of the trees can be found in Appendix 2 - Table of Quality Assessment.

#### Root Protection Areas (RPAs)

4.2.3 The RPAs for the trees and groups surveyed can be seen on Figure 2. The actual RPAs, in m<sup>2</sup>, for the individual trees surveyed are shown in Appendix 1.



#### Recommendations

#### 5.1 Site Specific Guidance

- 5.1.1 All trees on site should be considered for retention where possible, with the greatest consideration given to Category B trees where these specimens occur and then Category C trees. However, the retention of Category C trees should not be at the expense of an efficient design. Category U trees are recommended for removal for sound arboricultural reasons. Where trees of any category are on adjacent land, and removal is required for the development or good arboricultural practice, as is the case of the Category U T6, G5 and G9, permission should be sought from the landowner before any works can be undertaken.
- 5.1.2 As the trees at the site are mainly confined to its boundaries apart from the Category C group G10 it should be possible to effectively utilise the site without the need for a significant level of tree removal. It should also be possible to create a new access point to the site from the B4265 through either G8 or G11 without losing significant portions of these value screens from the highway.

#### 5.2 Tree Protection

- 5.2.1 For those trees selected to be retained as part of the redevelopment, it will be necessary to maintain Construction Exclusion Zones (CEZs) during the construction phase. The purpose of CEZs is to prevent damage to the tree roots from severance, compaction of the soil, or exclusion of air and water to the soil.
- 5.2.2 The CEZ should cover the area around the RPAs of all trees at the site that are not directly affected by the works. The CEZ should be maintained by suitable stout fencing (identified by marking as a 'Construction Exclusion Zone' or 'Tree Protection Zone' with notices) or adequate ground protection suitable to withstand any likely loading. The fencing should be fit for the purpose of excluding construction activity and remain rigid and complete throughout the duration of the works. If the ground protection is intended for pedestrian movement, a single thickness of scaffold boards on top of a compressible layer laid onto a geotextile may be acceptable; however, if intended for wheeled or tracked construction traffic, the ground protection should be designed by an engineer.
- 5.2.3 Where CEZs overlap with existing areas of tarmac, restricted working may be allowed and may not require protection by fencing. Such areas should, however, be clearly identified as restricted working areas within the CEZ by markings on the ground and notices. Within restricted working areas in CEZs, construction activities should be limited to surfacing works only. Strictly no digging should be allowed within these areas, except in cases where root-sensitive excavation techniques have been recommended in an Arboricultural Method Statement.
- 5.2.4 An adequate water and air supply to roots should be provided for all trees both during and after construction. This should include preventing impermeable surfacing from being allowed to cover more than 20% of the RPA.



#### 5.3 General Recommendations

#### **5.3.1** The following points are made as general recommendations:

- Building lines should be kept outside of RPAs, where possible. Limited use may be made for parking, drives or hard surfaces within the RPA, subject to advice from a qualified arboriculturist;
- Wherever possible, service runs should be routed outside the RPAs. If this is not
  possible, they should be kept together and trenchless techniques should be used. At all
  times where services pass within an RPA, detailed plans showing the proposed routing
  should be drawn up in conjunction with an arboriculturist;
- On residential developments consideration must be given to future tree growth and orientation (BS5837:2012), i.e. adverse shading and blocked views from windows, which may lead to pressure to fell or remove trees in the future. Wherever possible, the windows of primary rooms should be orientated to avoid any potential conflict with tree canopies; and
- An Arboricultural Impact Assessment (AIA) and Arboricultural Method Statement (AMS) should be produced once detailed plans for the development are available.



### 6. References

- 6.1.1 British Standards Institution (2012) BS5837:2012 *Trees in Relation to Design, Demolition and Construction Recommendations*. BSI, London.
- 6.1.2 British Standards Institution (2010) BS 3998:2010 *Recommendations for Tree Work.* BSI, London.
- 6.1.3 HM Government. *The Town and Country Planning (Tree Preservation) (England) Regulations 2012.* London: Office of Public Sector Information (OPSI).
- 6.1.4 Johnson, O. & More, D. (2004) Tree Guide. London: HarperCollins.
- 6.1.5 Lonsdale, D. (1990) *Principles of Tree Hazard Assessment and Management*. The Stationery Office, London.
- 6.1.6 Matheny, N. & Clark, J.R. (1998) Trees and Development. ISA, Champaign, IL.
- **6.1.7** Mattheck, C. & Breloer, H. (1994) *The Body Language of Trees.* The Stationery Office, London.
- 6.1.8 National Joint Utilities Group (NJUG) (2007) NJUG Volume 4: Guidelines for the Planning, Installation and Maintenance of Utility Services in Proximity to Trees. NJUG, London.
- 6.1.9 Office of the Deputy Prime Minister (ODPM) (2006) *Tree Preservation Orders, A Guide to the Law and Good Practice.* Office of Public Sector Information (OPSI).
- 6.1.10 Patch, D. & Holding, B. (2007) *Arboricultural Practice Note 12: Through the Trees to Development*. London: AAIS.
- 6.1.11 Robertson, J, Jackson, N & Smith, M (2006) *Tree Roots in the Built Environment.* The Stationery Office, London.



## 7. Appendix 1 - Tree Schedule

Tree/ Group No.	Species	Height (m)	Stem Diameter (mm)	Can N	Canopy Spread (m) N E S W		Height of Lowest Limb and Direction (m)	Crown Clearance (m)	Age Class	Estimated Remaining Contribution (years)	Remaining Condition Contribution Physiology Structure		Comments	Preliminary Management Recommendations	BS Category	RPA (m²)	
T1	Fraxinus excelsior, ash	6	110	1. 5	1. 5	1. 5	1. 5	1SW	0.5	Young	>40	Good	Good	-	-	C1	5
T2	Acer pseudoplatanus; sycamore	15	320, 290, 270	4	5	7	3	28	0.5	Middle- aged	20-40	Good	Fair	Off-site; measurements estimated; triple stem; base obscured by dense epicormic growth	-	C1;2	117
Т3	Fraxinus excelsior, ash	5	100	1	1	1	1	1.58	1.5	Young	>40	Good	Good	Growing close to wall; minor bark damage on stem	-	C1	5
Т4	Fraxinus excelsior, ash	5	80	1	1	1	1	28	2	Young	<10	Fair	Poor	Growing through roof of compound	Fell to ground level due to inappropriate location	U	3

# Arboricultural Survey Boverton, Vale of Glamorgan



Tree/ Group No.	Species	Height (m)	Stem Diameter (mm)	Can N	Canopy Spread (m) N E S W		Height of Lowest Limb and Direction (m)	Crown Clearance (m)	Age Class	Estimated Remaining Contribution (years)  Condition Physiology Structure		Comments	Preliminary Management Recommendations	BS Category	RPA (m²)		
Т5	Acer pseudoplatanus; sycamore	17	480, 460	8	8	8	8	28	2	Mature	20-40	Good	Fair	Off-site; measurements estimated; twin stem with possible inclusion; ivy on stem; base obscured by dense epormic growth; damaged limb low in crown overhanging site	Remove damaged limb	C1;2	200
Т6	<i>Ulmus minor var vulgaris</i> ; English elm	11	200, 220	0	0	0	0	28	3	Middle- aged	<10	Dead	Poor	Off-site; dead twin stem elm	Fell to ground level	U	40
Т7	Fraxinus excelsior, ash	15	490, 530	7	7	7	7	2SE	0.5	Mature	Oct-20	Poor	Fair	Off-site; measurements estimated; twin stem; thin crown with dieback (symptoms not consistent with Chlara fraxinea); base not visible due to dense ivy; large low limbs overhanging site	-	C1;2	236
Т8	Fraxinus excelsior, ash	16	480	6	6	6	6	4SW	2	Middle- aged	>40	Good	Fair	Off-site; measurements estimated; ivy on stem; base not fully visible; kink in stem	-	B1;2	104
G1	Fraxinus excelsior, ash	6	110	1	1	1	1	-	1	Young	>40	Good	Fair	Group of five young ash	-	C1	-



Tree/ Group No.	Species	Height (m)	Stem Diameter (mm)	Can N	opy S E	Spread S	l (m) W	Height of Lowest Limb and Direction (m)	Crown Clearance (m)	Age Class	Estimated Remaining Contribution (years)		dition Structure	Comments	Preliminary Management Recommendations	BS Category	RPA (m²)
G2	Acer pseudoplatanus; sycamore; Fraxinus excelsior; ash	15	260	4	4	4	4	-	0	Middle- aged	20-40	Good	Fair	Off-site; measurements estimated; group of middle- aged sycamore and ash overhanging compound; most stems not visible	-	C1;2	,
G3	Crataegus monogyna; common hawthorn	4	180	2	2	2	2	-	1	Middle- aged	20-40	Fair	Fair	Off-site; measurements estimated; group of hawthorn; ivy covered; overhanging site	-	C1;2	-
G4	Crataegus monogyna; common hawthorn	5	200	2	2	2	2	-	1	Mature	20-40	Good	Fair	Off-site group of dense hawthorn; measurements estimated	-	B2;3	-

# Arboricultural Survey Boverton, Vale of Glamorgan



Tree/ Group No.	Species	Height (m)	Stem Diameter (mm)	Can N	opy S E	pread S	l (m) W	Height of Lowest Limb and Direction (m)	Crown Clearance (m)	Age Class	Estimated Remaining Contribution (years)	Conc Physiology	dition Structure	Comments	Preliminary Management Recommendations	BS Category	RPA (m²)
G5	Ulmus minor var vulgaris; English elm	14	170	0	0	0	0	-	2	Middle- aged	<10	Dead	Poor	Group of off-site dead and dying elm	Fell to ground level	U	-
G6	Acer pseudoplatanus; sycamore; Fraxinus excelsior; ash; Crataegus monogyna; common hawthorn; Ulmus minor var vulgaris; English elm	12	160	2	2	2	2	-	1.5	Middle- aged	20-40	Fair	Fair	Group of dense mixed broadleaf species forming boundary hedge	-	C2;3;1	-
G7	Crataegus monogyna; common hawthorn; Sambucus nigra; elder; Prunus spinosa; blackthorn	5	100	1	1	1	1	-	0	Middle- aged	20-40	Good	Fair	Dense hawthorn and blackthorn scrub forming site boundary	-	C2;3	-



Tree/ Group No.	Species	Height (m)	Stem Diameter (mm)	Can N	opy S E	pread S	(m) W	Height of Lowest Limb and Direction (m)	Crown Clearance (m)	Age Class	Estimated Remaining Contribution (years)	Cone Physiology	dition Structure	Comments	Preliminary Management Recommendations	BS Category	RPA (m²)
G8	Fraxinus excelsior, ash; Crataegus monogyna; common hawthorn; Ulmus minor var vulgaris; English elm; Pinus sylvestris; Scots pine	12	200	3	3	3	3	-	0.5	Middle- aged	20-40	Good	Fair	Group of mainly ash with a hawthorn understorey forming screen from highway single Scots pine at eastern extent	-	B1;2	-
G9	<i>Ulmus minor var</i> <i>vulgaris</i> ; English elm	10	120	0	0	0	0	-	0	Young	<10	Dead	Poor	Group of off-site dead elm		U	-
G10	Crataegus monogyna; common hawthorn; Prunus spinosa; Blackthorn; Sambucus nigra; elder; Fraxinus excelsior, ash	5	100	1	1	1	1	-	0	Middle- aged	20-40	Good	Fair	Line of dense hawthorn and blackthorn forming hedge: nesting birds present; dead elm at southern extent	-	C2;3	-

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Tree/ Group No.	Species	Height (m)	Stem Diameter (mm)	Can N	opy S E	pread S	I (m) W	Height of Lowest Limb and Direction (m)	Crown Clearance (m)	Age Class	Estimated Remaining Contribution (years)		dition Structure	Comments	Preliminary Management Recommendations	BS Category	RPA (m²)
G11	Crataegus monogyna; common hawthorn; Fraxinus excelsior, ash	5	100	1	1	1	1	-	0.5	Middle- aged	20-40	Good	Fair	Off-site hawthorn hedge with ash at eastern extent; forms screen from highway	-	C2;3	-
G12	Crataegus monogyna; common hawthorn; Fraxinus excelsior, ash; Acer pseudoplatanus; sycamore	6	80	1	1	1	1	-	0	Young	10-20	Good	Fair	Area of scrub and young trees		C3	-
G13	Acer pseudoplatanus; sycamore; Fraxinus excelsior, ash	10	160	2	2	2	2	-	2	Young	>40	Good	Fair	Off-site group of young sycamore and ash		C1	-



Tree/ Group No.	Species	Height (m)	Stem Diameter (mm)	Can N	Canopy Spread (m) N E S W			Height of Lowest Limb and Direction (m)	Crown Clearance (m)	Age Class	Estimated Remaining Contribution (years)		dition Structure	Comments	Preliminary Management Recommendations	BS Category	RPA (m²)
G14	Fraxinus excelsior, ash	8	90	1	1	1	1	-	2	Young	>40	Good	Fair	Group of young self-set ash growing on bank		C1	-



## 8. Appendix 2 - Table of Quality Assessment

Category and definition	Criteria (including subcategories where appropriate)										
Trees unsuitable for reter	tion (see Note)										
Category U Those in such a condition that they cannot be retained as living trees in the context of the current land use for longer than 10 years	loss is expected due removal of other cate companion shelter cate irreversible overall de Trees infected with p trees nearby, or very quality	loss is expected due to collapse, including those that will become unviable after removal of other category U trees (e.g. where, for whatever reason, the loss of companion shelter cannot be mitigated by pruning)  Trees that are dead or are showing signs of significant, immediate and irreversible overall decline  Trees infected with pathogens of significance to the health and/or safety of other trees nearby, or very low quality trees suppressing adjacent trees of better quality  NOTE Category U trees can have existing or potential conservation value which might be desirable to preserve									
	1 Mainly arboricultural values	2 Mainly landscape values	3 Mainly cultural values, including conservation								
Trees to be considered fo	r retention										
Category A Trees of high quality with an estimated remaining life expectancy of at least 40 years	Trees that are particularly good examples of their species, especially if rare or unusual; or those that are essential components of groups or of formal or semi-formal arboricultural features (e.g. the dominant and/or principle trees within an avenue)	Trees, groups or woodlands of particular visual importance as arboricultural and/or landscape features	Trees, groups or woodlands of significant conservation, historical commemorative or other value (e.g. veteran trees or woodpasture)	LIGHT GREEN							
Category B Trees of moderate quality with an estimated remaining life expectancy of at least 20 years	Trees that might be included in category A, but are downgraded because of impaired condition (e.g. presence of significant though remediable defects, including unsympathetic past management and storm damage), such that they are unlikely to be suitable for retention for beyond 40 years; or trees lacking the special quality necessary to merit the category A designation	Trees present in numbers, usually growing as groups or woodlands, such that they attract a higher collective rating than they might as individuals; or trees occurring as collectives but situated so as to make little visual contribution to the wider locality	Trees with material conservation or other cultural value	MID BLUE							
Category C Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150mm	Unremarkable trees of very limited merit or such impaired condition that they do not qualify in higher categories	Trees present in groups or woodlands, but without this conferring on them significantly greater landscape value; and/or trees offering low or only temporary/transient landscape benefits	Trees with no material conservation or other cultural value	GREY							