



Tyn-y-Cae, Margam

BS5837:2012 Tree Survey 6th March 2020

Membership No: TE03654



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6th March 2020

Tyn-y-Cae, Margam

Site Location: Tyn-y-Cae Margam	Report Reference: 02/20/TYC/V6
Client: Recycling Plant and Machinery Ltd.	Date of Report: 06/03/2020 Date of Site Visits: 8 th & 10 th January 2020
Report Prepared By: Liz Phillips	Survey Carried Out By: Liz Phillips

RTAC, 6 COURTYARD FLATS, STABLE YARD, STACKPOLE, PEMBROKESHIRE, SA71 5DE

07823332279, info@rtactrees.co.uk, www.rtactrees.co.uk

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1. Introduction

1.1 Site Location

1.1.1 Site Address: Tyn-y-Cae, Margam, Neath Port Talbot, SA13 2NW.

1.1.2 Ordnance Survey grid reference: SS792863.

1.2 Instructions

1.2.1 RTAC has been instructed to provide a tree survey to BS5837:2012 for all trees within the perimeter of the site. The instruction was given by Richard Banks of JCR Planning.

1.3 Documents Provided

1.3.1

Document Description	Reference Number	Produced By	Date
Tyn-y-Cae Aerial Photo		JCR Planning	
Tyn-y-Cae Tree Preservation Orders		JCR Planning	
Tyn-y-Cae OS map extract		JCR Planning	
Tyn-y-Cae Margam Topographic Survey 1:250@A0 pdf. & dwg.		DLG Survey	20/01/2020
Tyn-y-Cae Site, Block & Location Plan	1120-01A	Robert D. Thomas Thomas Login Architecture	5 th February 2020

1.3.2 No independent verification or assessment of these documents has been made by RTAC.

1.4 Scope of Report

1.4.1 This survey is to record the trees within the perimeter of the site and immediately outside the west boundary.

1.4.2 This report is concerned with the arboricultural features of the site only and including any physical features which directly affect or are affected by the trees.

1.4.3 This survey is a record of the condition of the trees at the time of the survey being carried out, notwithstanding this, the purpose of this survey is to assess the trees in accordance with BS5837:2012 Trees in Relation to Design, Demolition and

Construction – Recommendations and with respect to the proposed development and the survey is not intended to be a full tree condition or hazard survey.

1.5 Survey Methodology and Limitations

1.5.1 The survey was carried out on Wednesday 8th January and Friday 10th January 2020, the weather was sunny and dry, and visibility was good.

1.5.2 No discussion took place between the surveyor and any other party.

1.5.3 Tree heights were measured using a Suunto PM5/360 clinometer. Stem diameters were measured at 1.5 metres above ground level with a diameter tape.

1.5.4 Crown spreads were measured with a twenty-metre measuring tape. Only crown spreads over the site have been accurately measured; crown spreads over adjacent land or within the hedgerows have been estimated.

1.5.5 No vegetation has been removed to inspect trees and where trees are not visible or accessible because of vegetation, fences, ditches or other obstructions a limited assessment has been carried out.

1.5.6 Observations were made using Visual Tree Assessment (VTA) methodology (Mattheck 1994). The data was recorded using Pear Technology Pocket GIS on a Panasonic Toughbook CF-19.

1.5.7 The trees recorded were tagged with two-inch diameter aluminium tree tags numbered from 0230 to 0297 inclusive.

1.5.8 This survey was undertaken in accordance with BS5837:2012 Trees in Relation to Design, Demolition and Construction – Recommendations.

1.5.9 The trees have been categorised in accordance with the British Standard 5837:2012 Trees in Relation to Design, Demolition and Construction – Recommendations as listed below:

Category A – trees of high quality with an estimated remaining 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.

These categories are subdivided into 1. Arboricultural qualities, 2. Landscape qualities and 3. Cultural values, including conservation.

Trees not suitable for retention have been categorised as U.

See Appendix I for table of categories.

1.5.10 All observations were made from the ground. No climbing surveys were carried out.

1.5.11 No soil samples were taken.

1.5.12 No invasive decay detection techniques have been used.

1.5.13 This report is valid for one year from the date of inspection. Trees are living organisms and no responsibility can be accepted by the surveyor for the failure of a tree or part of a tree due to adverse weather conditions, *force majeure* or other unpredictable occurrences. It is the responsibility of the tree owner to inspect and maintain his or her trees on a regular basis.

1.5.14 The tree survey was carried out by Liz Phillips TechArborA of RTAC. Liz has worked in the arboricultural industry for 14 years as a tree surgeon, surveyor, local authority tree officer and consultant.

1.6 Planning Policy

1.6.1 Planning Policy Wales Edition 10 December 2018 Chapter 6: Distinctive and Natural Places contains the following policies:

6.4.25 Planning authorities should protect trees, hedgerows, groups of trees and areas of woodland where they have ecological value, contribute to the character or amenity of a particular locality, or perform a beneficial and identified green infrastructure function. Planning authorities should consider the importance of native woodland and valued trees, and should have regard, where appropriate, to local authority tree strategies or SPG. Permanent removal of woodland should only be permitted where it would achieve significant and clearly defined public benefits. Where woodland or trees are removed as part of a proposed scheme, developers will be expected to provide compensatory planting.

1.6.2 Neath Port Talbot County Borough Council's Local Development Plan (2011-2016) adopted January 2016 contains the following policy:

'Policy EN 7 Important Natural Features

Development proposals that would adversely affect ecologically or visually important natural features such as trees, woodlands, hedgerows / field boundaries, watercourses or ponds will only be permitted where:

- 1. Full account has been taken of the relevant features in the design of the development, with measures put in place to ensure that they are retained and protected wherever possible; or*
- 2. The biodiversity value and role of the relevant feature has been taken into account and where removal is unavoidable, mitigation measures are agreed.*

1.7 Statutory Designations

1.7.1 Neath Port Talbot Council's Planning Department Business Support Technical Officer has confirmed that there are no Tree Preservation Orders affecting the site.

1.7.2 No works may be carried out without the consent of the Local Planning Authority, with the exception of the removal of dead, dying or dangerous trees, works to abate a nuisance and works in accordance with full planning consent.

1.8 Protected Wildlife

1.8.1 Before any treeworks are carried out, the trees should be inspected for any evidence of bats or nesting birds.

1.8.2 It is an offence under the Wildlife and Countryside Act 1981 to intentionally:

- kill, injure or take any wild bird;
- take, damage or destroy the nest of a wild bird included in Schedule ZA1;
- take, damage or destroy the nest of any wild bird while that nest is in use or being built; or
- take or destroy an egg of any wild bird,

1.8.3 It is also an offence to:

- deliberately capture, injure or kill a bat;
- damage or destroy any structure or place which any bat uses for shelter or protection;
- disturb any bat while it is occupying a structure or place which it uses for shelter or protection; or
- obstruct access to any structure or place which any bat uses for shelter or protection.

2. Site Analysis

2.1 Site Description

2.1.1 The site measures approximately four acres and is situated two hundred metres to the north of junction 38 of the M4. The site is accessed via a gate onto the A48 to the east of the site.

2.1.2 The site is rough pasture with a vacant farmhouse and associated outbuildings in the south-west corner of the site.

2.1.3 A drive bordered with semi-mature maples leads from the entrance gate to the house. The north and west boundaries have semi-mature and mature native species forming a shelter belt along the existing fencelines. The south and east boundaries consist of outgrown native species hedgerows with intermittent semi-mature and mature trees.

2.1.4 The house garden behind the vacant farmhouse is heavily overgrown and not accessible; only a few young trees are growing here.

2.2 Proposed Works

2.2.1 It is proposed to use the site as a truck-stop and convert the existing building to provide accommodation, catering and associated facilities. The site will continue to be accessed via the existing entrance gate and the existing access road will be widened and extended to serve the proposed truck parking area in the southern half of the site. An additional access will be created in the north-west corner of the site which will link up with the existing hammerhead outside the site.

3. The Trees

3.1 Outgrown hedgerows of hawthorn (*Crataegus monogyna*), ash (*Fraxinus excelsior*) and sycamore (*Acer pseudoplatanus*) form the east and south boundaries. A group of semi-mature sycamores are growing just outside the south-east corner of the site. Within the site and immediately adjacent to the western boundary, seventy-one trees were recorded. The tables of species, age class and retention category are below:

3.2 Tree Species

Common Name	Botanical Name	Number of Trees
Sycamore	<i>Acer pseudoplatanus</i>	40
Common ash	<i>Fraxinus excelsior</i>	11
Common beech	<i>Fagus sylvatica</i>	5
Silver maple	<i>Acer saccharinum</i>	5
Common hawthorn	<i>Crataegus monogyna</i>	2
Norway maple	<i>Acer platanoides</i>	2
Apple	<i>Malus sp.</i>	1
Austrian pine	<i>Pinus nigra Austriaca</i>	1
Common lime	<i>Tilia europaea</i>	1
London plane	<i>Platanus x hispanica</i>	1
Silver birch	<i>Betula pendula</i>	1
Unknown	<i>Dead</i>	1

3.3 Age Classes

Age Class	Number of Trees
Young	0
Semi-mature	68
Mature	5
Over Mature	2
Dead	1

3.4 Retention Category

Retention Category	Number of Trees
A	1
B	11
C	47
U	12

3.5 The majority of trees on the site are native species with a few non-native species planted in the centre of the site. The house garden contains an apple tree, a young blue Atlas cedar (*Cedrus atlantica glauca*), a young Norway spruce (*Picea abies*) and a young multi-stemmed holly (*Ilex aquifolium*). These trees could not be inspected because of the overgrown condition of the garden but have all been categorised as 'C' because of their young age and small size.

4 Treeworks Recommendations

4.1

Tree Number	Species	Work Required	Retention Category
T230	Sycamore	Fell to ground level – to facilitate development	C
T233	Sycamore	Fell and remove stump	U
T235	Sycamore	Fell and remove stump	U
T238	Lime	Remove epicormic growths	B
T240	Sycamore	Fell and remove stump	U
T241	Sycamore	Fell and remove stump	U
T243	Sycamore	Fell and remove stump	U
T246	Sycamore	Fell and remove stump	U
T247	Beech	Fell to ground level – to facilitate development	C
T248	Sycamore	Fell and remove stump	U
T249	Hawthorn	Fell to ground level – to facilitate development	C
T250	Sycamore	Fell to ground level – to facilitate development	C
T251	Ash	Fell to ground level – to facilitate development	C
T252	Sycamore	Fell to ground level – to facilitate development	C
T253	Sycamore	Fell to ground level – to facilitate development	C
T255	Ash	Fell to ground level -to facilitate development	C
T257	Sycamore	Fell and remove stump	U

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T258	Unknown/ dead	Fell to ground level	U
T259	Sycamore	Remove epicormic growths	C
T275	Sycamore	Fell to ground level – to facilitate development	C
T276	Silver maple	Fell to ground level – to facilitate development	C
T277	Sycamore	Fell to ground level – to facilitate development	C
T278	Sycamore	Fell to ground level – to facilitate development	C
T279	Silver birch	Fell to ground level – to facilitate development	B
T280	Norway maple	Fell to ground level – to facilitate development	C
T281	Sycamore	Fell to ground level – to facilitate development	C
T282	Sycamore	Fell to ground level – to facilitate development	C
T283	Norway maple	Fell to ground level - to facilitate development	C
T284	Silver maple	Fell to ground level – to facilitate development	C
T285	Silver maple	Fell to ground level – to facilitate development	C
T286	Ash	Fell to ground level – to facilitate development	C
T287	Beech	Fell and remove stump	U
T288	Apple	Fell to ground level – encroaching on building	C
T298	London plane	Fell to ground level	U
T299	Sycamore	Fell and remove stump	U

4.2 All treeworks must be carried out in accordance with BS3998:2010 Recommendations for Treeworks.

5 Arboricultural Impact Assessment

5.1 Tree Constraints Plan

5.1.1 All site plans are in Appendix II.

5.1.2 Above Ground Constraints - current crown spread is marked on the Tree Constraints Plan (TCP). This does not indicate the ultimate crown spread of the individual trees.

5.1.3 Below Ground Constraints – the root protection area (RPA) is a circle of radius 12 x the diameter of the stem of the tree measured at 1.5 metres above ground level. For a multi-stemmed tree, the RPA is calculated using the following formula:

$$\sqrt{(\text{mean stem diameter})^2 \times \text{number of stems}}$$

5.1.4 The RPA is usually depicted as a complete circle; however, this area can be altered in shape to reflect compromised growing conditions such as the presence of buildings, watercourses, etc. In this case, only the RPA of T295 has been amended to reflect the proximity of the adjacent A48 and the RPA of T273 and T289 to reflect the proximity of the house.

5.2 Arboricultural Impact Assessment

5.2.1 Twelve U Category trees need to be removed. Ten small C category semi-mature maples and one B category mature silver birch growing along the access road will need to be removed to allow for the road to be widened. Seven semi-mature C category trees will be removed to provide the new access. Generally, category C and U trees are considered to be of low quality or are young specimens, which can be readily replaced, therefore, should not be considered a constraint to future development.

5.2.2 The removal of the small semi-mature trees from the centre of the site and seven poor quality ones from the north-west boundary will have a minimal impact on the visual amenity of the site as the majority of the tree screen around the site will be retained.

5.2.3 The proposed car and truck parking places have all been situated so as to be outside the RPAs of any retained trees.

5.3 Tree Protection Plan & Method Statement

5.3.1 All construction works will be outside the RPAs of any retained trees.

5.3.2 All treeworks and tree removals must be completed before any construction works commence.

5.3.3 The retained trees will be protected by Heras fencing as shown in Appendix III erected in the locations shown on the Tree Protection Plan in Appendix II. This fencing must be in place before construction begins and must not be moved or removed until all construction works have ceased.

5.3.4 The area inside the Heras fencing will be designated the construction exclusion zone (CEZ).

5.3.5 Works within the CEZ are restricted as follows:

- No excavations to be carried out unless agreed as part of the planning permission.
- No vehicle access.
- No fires to be lit within the CEZ or within 10 metres of the crown of a tree to be retained.
- No storage of construction materials or spoil within the CEZ.
- No mixing of cement or discharge of contaminants such as fuel within the CEZ.
- Soil levels within the CEZ must not be altered unless agreed as part of the planning permission.
- No site huts to be located within the CEZ.
- No signs or lighting to be attached to trees to be retained.

5.3.6 A laminated copy of the Tree Protection Plan must be kept in the site office.



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APPENDICES

I. Survey Data

Terms used in data tables

BS5837 Survey

Tag No – corresponds to numbered metal tag attached to tree.

Species – common and Latin names are given.

Height - measured with a Suunto PM5/360 clinometer to the nearest metre unless otherwise stated.

Stem diameter - measured at 1.5 metres above ground level with a dbh (diameter at breast height) tape.

Crown spread - measured at the cardinal points to 0.5 metres.

Clear - the lowest height of the crown above ground measured in metres.

Age - NP – newly planted; Y – young, a tree in the first third of life expectancy; SM – semi-mature, a tree in the second half of life expectancy; M – mature, tree in final third of life expectancy; OM – over-mature, tree in decline; V – veteran, tree with major physiological decline, surviving beyond the typical age range for the species.

RP – root protection area; radius and area of circle.

Phys. Condition - physiological condition; poor, fair, good, dead or dangerous.

Structural condition - crown, stem and basal area.

Preliminary recommendations - recommendations for remedial works.

Cat - retention category as defined in BS5837:2012 A, B, C and U.

Table 1 Cascade chart for tree quality assessment

Category and definition	Criteria (including subcategories where appropriate)			Identification on plan
Trees unsuitable for retention (see Note)				
Category 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	- Trees that have a serious, irremediable, structural defect, such that their early 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 <i>NOTE Category U trees can have existing or potential conservation value which it might be desirable to preserve; see 4.5.7.</i>			See Table 2
	1 Mainly arboricultural qualities	2 Mainly landscape qualities	3 Mainly cultural values, including conservation	
Trees to be considered for 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 formal or semi-formal arboricultural features (e.g. the dominant and/or principal 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 wood-pasture)	See Table 2
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	See Table 2
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 150 mm	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 collective landscape value; and/or trees offering low or only temporary/transient landscape benefits	Trees with no material conservation or other cultural value	See Table 2

BS5837:2012 Tree Survey

RTAC

Client: JCR Planning
 Project: Tyn-y-Cae, Margam
 Survey Date: 08/01/2020 - 10/01/2020
 Surveyor: Liz Phillips

6 Courtyard Flats
 Stable Yard
 Stackpole
 Pembroke
 SA71 5DE
 Mobile: 07823332279

Tree and Tag No Species		Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations		Cat ERC
			No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment		
G1	no tag										Estimated Measurements		
Sycamore		9	1	200	N	3	SM	A: 18.1	Good	C: Good	No action :: Unspecified		C.2
<i>Acer pseudoplatanus</i>					E	3		R: 2.4		S: Good			>40 yrs
					S	3				B: Good	Group of semi-mature sycamores. Off-site trees.		
					W	3							
H1	no tag										Estimated Measurements		
A Hedgerow		5	1	200			SM	A: 18.1	Good	C: Good	No action :: Unspecified		C.2
- <i>Unknown</i>					E	3		R: 2.4		S: Good			>40 yrs
					W	3				B: Good	Predominantly hawthorn.		
H2	no tag										Estimated Measurements		
A Hedgerow		4	0				SM	A: 0	Good	C: Good	No action :: Unspecified		C.2
- <i>Unknown</i>								R: 0		S: Good			>40 yrs
										B: Good			
H3	no tag										Estimated Measurements		
A Hedgerow		8	1	140			SM	A: 8.9	Good	C: Good	No action :: Unspecified		C.2
- <i>Unknown</i>								R: 1.68		S: Good			>40 yrs
										B: Good	Outgrown mixed hedge; semi-mature ash. sycamore and hawthorn.		
Age Classifications:	N	Newly planted	EM	Early Mature	Condition:			C	Crown	Stems:	Ø	Diameter	
	Y	Young	M	Mature				S	Stem		(Eq)	Equivalent stem diameter using BS5837:2012 definition	
	SM	Semi-mature	OM	Over Mature				B	Basal area				

Tree and Tag No Species		Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations			Cat ERC
			No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment			
T230	230													
Sycamore <i>Acer pseudoplatanus</i>		12	1	450	N E S W	7 7 8 8	SM	A: 91.6 R: 5.39	Good	C: Good S: Good B: Good	Fell :: To facilitate development			C.2 >40 yrs
T231	231													
Sycamore <i>Acer pseudoplatanus</i>		20	1	660	N E S W	6 7 6 3	5 SM	A: 197.1 R: 7.92	Good	C: Fair S: Ivy B: Good	No action :: Unspecified			B.2 >40 yrs
T232	232													
Sycamore <i>Acer pseudoplatanus</i>		18	1	610	N E S W	5 6 8 5	2 SM	A: 168.4 R: 7.32	Good	C: Good S: Fair B: Good	No action :: Unspecified Grafted stem; bark wound at base east side.			C.2 20 to 40 yrs
T233	233													
Sycamore <i>Acer pseudoplatanus</i>		18	1	680	N E S W	3 7 7 6	4 SM	A: 209.2 R: 8.16	Fair	C: Good S: Poor B: Poor	Fell :: Fell and remove stump(s) Within falling distance of dual carriageway. Large open cavity coverig 50-75% of base.			U <10 yrs
T234	234													
Sycamore <i>Acer pseudoplatanus</i>		12	1	680	N E S W	9 8 6 2	3 SM	A: 209.2 R: 8.16	Good	C: Fair S: Fair B: Good	No action :: Unspecified Leaning, asymmetrical crown; broken branches/ stubs.			C.2 20 to 40 yrs
T235	235													
Sycamore <i>Acer pseudoplatanus</i>		5	1	270	N S W	6 2 1	3 SM	A: 33 R: 3.24	Poor	C: Poor S: Poor B: Good	Fell :: Fell and treat stump(s) Leader snapped out; asymmetrical crown.			U
Estimated Measurements														
Age Classifications:		N Y SM	Newly planted Young Semi-mature	EM M OM	Early Mature Mature Over Mature	Condition:		C S B	Crown Stem Basal area	Stems:		Ø (Eq)	Diameter Equivalent stem diameter using BS5837:2012 definition	

Tree and Tag No Species		Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations			Cat ERC
			No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment			
T236 236														
Sycamore <i>Acer pseudoplatanus</i>		18	1	610	N E S W	8 7 8 7	3 4 3 7	SM A: 168.4 R: 7.32	Good	C: Good S: Good B: Good	No action :: Unspecified			B.2 >40 yrs
T237 237														
Sycamore <i>Acer pseudoplatanus</i>		19	1	530	N E S W	2 5 7 6	9 5 3 4	SM A: 127.1 R: 6.36	Good	C: Fair S: Good B: Good	No action :: Unspecified Asymmetrical crown; deadwood.			B.2 >40 yrs
T238 238														
Common Lime <i>Tilia europaea</i>		17	1	800	N E S W	7 4 6.5 7	3 3 1 4	SM A: 289.6 R: 9.6	Good	C: Good S: Good B: Good	Remove :: Epicormic growths Epicormic and deadwood in crown.			B.2 >40 yrs
T239 239														
Common Ash <i>Fraxinus excelsior</i>		13	1	570	N E S W	7 6 4 4	0.5 4 6 3	SM A: 147 R: 6.84	Fair	C: Fair S: Fair B: Good	No action :: Unspecified Boundary tree; asymmetrical crown; bark wounds; bifurcated at 1m.			C.2 20 to 40 yrs
T240 240														
Sycamore <i>Acer pseudoplatanus</i>		18	1	820	N E S W	5 6 8 1	6 3 3 6	SM A: 304.2 R: 9.84	Poor	C: Poor S: Poor B: Poor	Fell :: Fell and treat stump(s) Large cavity in base; dieback in crown.			U
T241 241														
Sycamore <i>Acer pseudoplatanus</i>		16	1	690	N E S W	8 7 10 6	3 7 3 2	SM A: 215.4 R: 8.28	Poor	C: Poor S: Poor B: Poor	Fell :: Fell and remove stump(s) Dieback in crown; large cavity and decay at base.			U
Age Classifications:		N Y SM	Newly planted Young Semi-mature	EM M OM	Early Mature Mature Over Mature	Condition:		C S B	Crown Stem Basal area	Stems:		Ø (Eq)	Diameter Equivalent stem diameter using BS5837:2012 definition	

Tree and Tag No Species		Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations			Cat ERC
			No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment			
T242 242														
Sycamore	19	2	608 (Eq)	N	8	0.5	SM	A: 167.3	Good	C: Fair	No action :: Unspecified			C.2
<i>Acer pseudoplatanus</i>				E	6	5		R: 7.29		S: Fair	Asymmetrical crown; weak union at base of stem.			20 to 40 yrs
				S	6	6				B: Good				
				W	8	4								
T243 243														
Sycamore	14	1	510	N	4	3	SM	A: 117.7	Poor	C: Fair	Fell :: Fell and remove stump(s)			U
<i>Acer pseudoplatanus</i>				E	5	3		R: 6.12		S: Poor	Completely decayed at base; leader has split out.			
				S	6	3				B: Poor				
				W	3	5								
T244 244														
Sycamore	6	1	300	N	5	1.5	SM	A: 40.7	Fair	C: Fair	No action :: Unspecified			C.2
<i>Acer pseudoplatanus</i>				E	3	3		R: 3.59		S: Fair	Asymmetrical crown; leaning; suppressed.			20 to 40 yrs
				S	1					B: Good				
				W	1	2								
T245 245														
Sycamore	23	1	840	N	6	5	SM	A: 319.2	Good	C: Good	No action :: Unspecified			B.2
<i>Acer pseudoplatanus</i>				E	7	4		R: 10.07		S: Good				>40 yrs
				S	12	3				B: Good				
				W	7	7								
T246 246														
Sycamore	13	1	510	N	7	1.5	SM	A: 117.7	Poor	C: Poor	Fell :: Fell and remove stump(s)			U
<i>Acer pseudoplatanus</i>				E	7	5		R: 6.12		S: Poor	Large cavity in base to 1m on north side; cavity in top 1/3 of crown; asymmetrical crown.			
				S	2	8				B: Poor				
				W	6	4								
T247 247														
Common Beech	19	1	560	N	2		SM	A: 141.9	Fair	C: Poor	Fell :: To facilitate development			C.2
<i>Fagus sylvatica</i>				E	3	6		R: 6.72		S: Good	Leader snapped out.			20 to 40 yrs
				S	12	1				B: Good				
				W	4	6								
Age Classifications:		N Y SM	Newly planted Young Semi-mature	EM M OM	Early Mature Mature Over Mature	Condition:		C S B	Crown Stem Basal area	Stems:		Ø (Eq)	Diameter Equivalent stem diameter using BS5837:2012 definition	

Tree and Tag No Species		Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations			Cat ERC
			No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment			
T248 248														
Sycamore <i>Acer pseudoplatanus</i>		17	1	530	N E S W	6 4 6 5	3 6 1 6	SM A: 127.1 R: 6.36	Poor	C: Poor S: Poor B: Poor	Fell :: Fell and remove stump(s) Base of stem completely decayed; decay extends to 4m on north side.			U
T249 249														
Common Hawthorn <i>Crataegus monogyna</i>		5	1	300	N E S W	4 6 3 4	1 1 3 2	SM A: 40.7 R: 3.59	Good	C: Good S: Good B: Good	Fell :: To facilitate development Boundary tree.			C.2 >40 yrs
T250 250														
Sycamore <i>Acer pseudoplatanus</i>		10	1	260	N E S W	1 4 2 1	4 3 3 3	SM A: 30.6 R: 3.12	Fair	C: Fair S: Good B: Good	Fell :: To facilitate development Suppressed.			C.2 20 to 40 yrs
T251 251														
Common Ash <i>Fraxinus excelsior</i>		17	1	940	N E S W	8 9 11 4	4 4 6 7	M A: 399.8 R: 11.28	Poor	C: Fair S: Fair B: Good	Fell :: To facilitate development Further inspection :: Unspecified Probably stage1 ash dieback; trunk trifurcated at 1m; inonotus hispidus bracket on ground at base of tree - probably fallen from lage inclusion on main stem.			C.2 10 to 20 yrs
T252 252														
Sycamore <i>Acer pseudoplatanus</i>		12	1	540	N E S W	5 6 4 4	3 6 3 2	SM A: 131.9 R: 6.47	Good	C: Good S: Ivy B: Good	Fell :: To facilitate development Bifurcated at 1m.			C.2 >40 yrs
T253 253														
Sycamore <i>Acer pseudoplatanus</i>		23	1	670	N E S W	6 7 10 3	4 3 3 4	SM A: 203.1 R: 8.04	Good	C: Fair S: Good B: Good	Fell :: To facilitate development Leader snapped out.			C.2 >40 yrs
Age Classifications:		N Y SM	Newly planted Young Semi-mature	EM M OM	Early Mature Mature Over Mature	Condition:		C S B	Crown Stem Basal area	Stems:		Ø (Eq)	Diameter Equivalent stem diameter using BS5837:2012 definition	

Tree and Tag No Species		Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations			Cat ERC
			No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment			
T254 254														
Sycamore <i>Acer pseudoplatanus</i>		29	1	860	N E S W	5 3 10 6	7 3 4 4	M A: 334.6 R: 10.32	Good	C: Good S: Good B: Good	No action :: Unspecified			B.2 >40 yrs
T255 255														
Common Ash <i>Fraxinus excelsior</i>		13	2	424 (Eq)	N E S W	6 5 3 6	6 7 3 2	SM A: 81.4 R: 5.09	Good	C: Fair S: Good B: Good	Fell :: To facilitate development Outside boundary fence; asymmetrical crown.			C.2 >40 yrs
T256 256														
Sycamore <i>Acer pseudoplatanus</i>		8	1	340	N E S W	4 6 3 4	2 5 1 1.5	SM A: 52.3 R: 4.08	Good	C: Fair S: Ivy B: Good	No action :: Unspecified Suppressed.			C.2 >40 yrs
T257 257													Estimated Measurements	
Sycamore <i>Acer pseudoplatanus</i>		10	1	560	N E S W	3 4 4 7		SM A: 141.9 R: 6.72	Poor	C: Poor S: Poor B: Poor	Fell :: Fell and remove stump(s) Extensive decay with open cavity to 2m west side; Pleurotus ostreatus (oyster fungus) brackets present.			U
T258 258													Estimated Measurements	
Unknown - -		9	1	600				Dead A: 162.9 R: 7.2	Dead	C: Poor S: Ivy B: Poor	Fell :: Fell to ground level			U
T259 259														
Sycamore <i>Acer pseudoplatanus</i>		20	1	540	N E S W	9 3 9 7	6 7 3 7	SM A: 131.9 R: 6.47	Fair	C: Fair S: Ivy B: Good	Remove :: Epicormic growths Deadwood and ivy in crown.			C.2 >40 yrs
Age Classifications:		N Y SM	Newly planted Young Semi-mature	EM M OM	Early Mature Mature Over Mature	Condition:		C S B	Crown Stem Basal area	Stems:		Ø (Eq)	Diameter Equivalent stem diameter using BS5837:2012 definition	

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations			Cat ERC
		No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment			
T260 260													
Sycamore <i>Acer pseudoplatanus</i>	14	4	584 (Eq)	N	5	5	SM	A: 154.1 R: 7	Fair	C: Fair S: Ivy B: Fair	No action :: Unspecified Ivy in crown; fence embedded in base; boundary tree.	C.2 20 to 40 yrs	
				E	4	4							
				S	6	3							
				W	6	2							
T261 261													
Common Beech <i>Fagus sylvatica</i>	19	1	620	N	5	6	SM	A: 173.9 R: 7.44	Good	C: Good S: Fair B: Fair	No action :: Unspecified Minor stem cavities; fence embedded in base.	B.2 >40 yrs	
				E	6	4							
				S	6	4							
				W	5	3							
T262 262												Estimated Measurements	
A Group	7	1	150	N	2		SM	A: 10.2 R: 1.8	Good	C: Good S: Good B: Good	No action :: Unspecified Group of 4 young semi-mature sycamore.	C.2 >40 yrs	
- -				E	2								
				S	2								
				W	2								
T263 263												Estimated Measurements	
Sycamore <i>Acer pseudoplatanus</i>	10	2	456 (Eq)	N	5	5	SM	A: 94.1 R: 5.47	Good	C: Good S: Fair B: Good	No action :: Unspecified Trunk is bifurcated; one stem is formed of two grafted stems.	C.2 >40 yrs	
				E	5	6							
				S	5	3							
				W	6	4							
T264 264												Estimated Measurements	
Sycamore <i>Acer pseudoplatanus</i>	7	2	244 (Eq)				SM	A: 27 R: 2.93	Fair	C: Fair S: Fair B: Good	No action :: Unspecified Suppressed; asymmetrical crown; smallest stem decayed.	C.2 20 to 40 yrs	
				S	3								
				W	4								
T265 265													
Common Beech <i>Fagus sylvatica</i>	25	1	840	N	10		SM	A: 319.2 R: 10.07	Good	C: Good S: Fair B: Good	No action :: Unspecified Fence embedded in stem.	B.2 >40 yrs	
				E	10								
				S	4	5							
				W	6	7							
Age Classifications:	N Y SM	Newly planted Young Semi-mature	EM M OM	Early Mature Mature Over Mature			Condition:	C S B	Crown Stem Basal area	Stems:	Ø (Eq)	Diameter Equivalent stem diameter using BS5837:2012 definition	

Tree and Tag No Species		Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations			Cat ERC
			No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment			
T266 266														
Common Beech <i>Fagus sylvatica</i>		28	1	900	N E S W	6 10 7 9	5 4 3 7	SM A: 366.5 R: 10.8	Good	C: Good S: Good B: Fair	No action :: Unspecified Fence embedded in stem.			B.2 >40 yrs
T267 267														
Sycamore <i>Acer pseudoplatanus</i>		12	1	240	N E S W	1 1 2 3	6 7 6 6	SM A: 26.1 R: 2.88	Good	C: Good S: Ivy B: Good	No action :: Unspecified			C.2 >40 yrs
T268 268														
Sycamore <i>Acer pseudoplatanus</i>		14	1	360	N E S W	2 3 2 2	6 7 7 6	SM A: 58.6 R: 4.31	Good	C: Good S: Good B: Good	No action :: Unspecified			C.2 >40 yrs
T269 269													Estimated Measurements	
Sycamore <i>Acer pseudoplatanus</i>		16	2	773 (Eq)	N E S W	5 5 3 8	7 5 7 3	SM A: 270 R: 9.27	Good	C: Good S: Good B: Good	No action :: Unspecified			C.2 >40 yrs
T270 270													Estimated Measurements	
Sycamore <i>Acer pseudoplatanus</i>		16	2	716 (Eq)	N E S W	4 4 4 7	6 4 2 2	SM A: 231.7 R: 8.58	Good	C: Good S: Fair B: Good	No action :: Unspecified Off-site tree. Weak union at base.			C.2 >40 yrs
T271 no tag													Estimated Measurements	
Common Hawthorn <i>Crataegus monogyna</i>		4	1	120	N E S W	1 1 1 2	1 1 1 1	SM A: 6.5 R: 1.43	Good	C: Good S: Good B: Good	No action :: Unspecified			C.2 >40 yrs
Age Classifications:		N Y SM	Newly planted Young Semi-mature	EM M OM	Early Mature Mature Over Mature	Condition:		C S B	Crown Stem Basal area	Stems:		Ø (Eq)	Diameter Equivalent stem diameter using BS5837:2012 definition	

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations			Cat ERC
		No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment			
T272 272											Estimated Measurements		
Sycamore <i>Acer pseudoplatanus</i>	13	1	660	N E S W	5 7 8 7	4 3 2 4	SM A: 197.1 R: 7.92	Good	C: Good S: Fair B: Good	No action :: Unspecified			C.2 ----- >40 yrs
T273 273													
Common Ash <i>Fraxinus excelsior</i>	21	1	900	N E S W	8 10 9 9	2 3 3 1	SM A: 366.5 R: 10.8	Fair	C: Fair S: Ivy B: Good	No action :: Unspecified ----- Large amounts of deadwood in crown; exudates from cavity in crown; grafted branches; possible chalara ash dieback.			C.2 ----- 10 to 20 yrs
T274 no tag													
Common Ash <i>Fraxinus excelsior</i>	15	1	800	N E S W	6 9 7 8	4 3 6 4	SM A: 289.6 R: 9.6	Good	C: Good S: Ivy B: Fair	No action :: Unspecified ----- Tree growing on top of retaining wall.			C.2 ----- 20 to 40 yrs
T275 275													
Sycamore <i>Acer pseudoplatanus</i>	4	1	340	N E S W	2 2 2 1.5	3 3 3 3	SM A: 52.3 R: 4.08	Good	C: Good S: Good B: Good	Fell :: To facilitate development -----			C.2 ----- >40 yrs
T276 276													
Silver Maple <i>Acer saccharinum</i>	6	1	540	N E S W	3 3 3 3	4 3 3 3	SM A: 131.9 R: 6.47	Good	C: Good S: Good B: Good	Fell :: To facilitate development -----			C.2 ----- 20 to 40 yrs
T277 277													
Sycamore <i>Acer pseudoplatanus</i>	6	1	260	N E S W	3 3 3 3	3 3 4 3	SM A: 30.6 R: 3.12	Fair	C: Fair S: Good B: Good	Fell :: To facilitate development ----- Large bark wound in crown.			C.2 ----- 20 to 40 yrs
Age Classifications:	N Y SM	Newly planted Young Semi-mature	EM M OM	Early Mature Mature Over Mature	Condition:		C S B	Crown Stem Basal area	Stems:	Ø (Eq)	Diameter Equivalent stem diameter using BS5837:2012 definition		

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations		Cat ERC
		No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment		
T278 278												
Sycamore <i>Acer pseudoplatanus</i>	7	1	310	N E S W	4 4 4 4	3 4 4 4	SM A: 43.5 R: 3.72	Good	C: Good S: Fair B: Good	Fell :: To facilitate development Bark wound across north side of stem - looks as if fence rail has been removed.	C.2 20 to 40 yrs	
T279 279												
Silver Birch <i>Betula pendula</i>	15	1	550	N E S W	5 5 5 6	1 4 2 2	M A: 136.9 R: 6.6	Good	C: Good S: Good B: Good	Fell :: To facilitate development Wire embedded in stem.	B.2 >40 yrs	
T280 280												
Norway Maple <i>Acer platanoides</i>	6	1	430	N E S W	4 4 4 3	3 4 4 3	SM A: 83.7 R: 5.16	Good	C: Good S: Good B: Good	Fell :: To facilitate development Fence wire embedded in stem.	C.2 >40 yrs	
T281 281												
Sycamore <i>Acer pseudoplatanus</i>	5	1	390	N E S W	3 3 3 3	3 2 2 2	SM A: 68.8 R: 4.67	Good	C: Good S: Fair B: Good	Fell :: To facilitate development Bifurcated at 0.5m - weak union here.	C.2 20 to 40 yrs	
T282 282												
Sycamore <i>Acer pseudoplatanus</i>	6	1	420	N E S W	3 4 3 3	3 4 3 3	SM A: 79.8 R: 5.03	Good	C: Fair S: Fair B: Good	No action :: Unspecified Stubs and damaged branches in crown; fence wire embedded in stem.	C.2 20 to 40 yrs	
T283 283												
Norway Maple <i>Acer platanoides</i>	6	1	290	N E S W	3 3 3 3	3 3 3 3	SM A: 38.1 R: 3.48	Good	C: Fair S: Good B: Good	No action :: Unspecified Weak fork at stem break.	C.2 20 to 40 yrs	
Age Classifications:	N Y SM	Newly planted Young Semi-mature	EM M OM	Early Mature Mature Over Mature	Condition:		C S B	Crown Stem Basal area	Stems:		Ø (Eq)	Diameter Equivalent stem diameter using BS5837:2012 definition

Tree and Tag No Species		Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations			Cat ERC	
			No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment				
T284 284		7	1	520	N	4	4	SM	A: 122.3 R: 6.23	Good	C: Good S: Good B: Good	Fell :: To facilitate development			C.2 >40 yrs
Silver Maple					E	3	1.5								
Acer saccharinum					S	3	2								
					W	4	2								
T285 285		6	1	360	N	3	4	SM	A: 58.6 R: 4.31	Good	C: Good S: Fair B: Good	Fell :: To facilitate development			C.2 20 to 40 yrs
Silver Maple					E	3	3								
Acer saccharinum					S	3	3								
					W	4	3								
T286 286		6	1	450	N	3	5	SM	A: 91.6 R: 5.39	Good	C: Good S: Good B: Good	Fell :: To facilitate development			C.2 >40 yrs
Common Ash					E	3	3								
Fraxinus excelsior					S	4	4								
					W	3	3								
T287 287		6	1	900				OM	A: 366.5 R: 10.8	Poor	C: Poor S: Poor B: Poor	Estimated Measurements			U
Common Beech												Fell :: Fell and remove stump(s)			
Fagus sylvatica												Decayed monolith.			
T288 288		4	1	340	N	4	2	SM	A: 52.3 R: 4.08	Good	C: Good S: Good B: Good	Estimated Measurements			C.2 >40 yrs
Apple					E	5	4					No action :: Unspecified			
Malus Unknown					S	5	3					Encroaching on building.			
					W	4	3								
T289 289		14	1	800	N	8	3	M	A: 289.6 R: 9.6	Good	C: Good S: Good B: Good	Estimated Measurements			B.2 >40 yrs
Common Ash					E	9	4					No action :: Unspecified			
Fraxinus excelsior					S	8	5								
					W	7	2								
Age Classifications:		N Y SM	Newly planted Young Semi-mature	EM M OM	Early Mature Mature Over Mature	Condition:		C S B	Crown Stem Basal area	Stems:		Ø (Eq)	Diameter Equivalent stem diameter using BS5837:2012 definition		

Tree and Tag No Species		Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations			Cat ERC
			No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment			
T290 290														
Common Ash <i>Fraxinus excelsior</i>		11	1	380	N E S W	8 4 7 6	2 4 3 5	SM A: 65.3 R: 4.55	Good	C: Good S: Good B: Good	No action :: Unspecified			C.2 >40 yrs
T291 291														
Common Ash <i>Fraxinus excelsior</i>		14	1	210	N E S W	4 2 3 2	6 7 6 6	SM A: 20 R: 2.52	Good	C: Good S: Good B: Good	No action :: Unspecified			C.2 >40 yrs
T292 292														
Common Ash <i>Fraxinus excelsior</i>		14	1	340	N E S W	6 6 5 2	2 4 4 6	SM A: 52.3 R: 4.08	Good	C: Good S: Good B: Good	No action :: Unspecified			C.2 >40 yrs
T293 293														
Common Ash <i>Fraxinus excelsior</i>		11	1	300	N E S W	6 6 5 5	3 2 3 3	SM A: 40.7 R: 3.59	Good	C: Good S: Good B: Good	No action :: Unspecified			C.2 >40 yrs
T294 294														
Sycamore <i>Acer pseudoplatanus</i>		10	2	339 (Eq)	N E S W	4 2 3 4	3 5 4 2	SM A: 52.1 R: 4.07	Good	C: Good S: Good B: Good	No action :: Unspecified			C.2 >40 yrs
T295 295														
Austrian Pine <i>Pinus nigra ssp. Nigra</i>		20	1	1290	N E S W	9 8 8 11	5 5 6 2	M A: 707 R: 15	Good	C: Good S: Good B: Good	No action :: Unspecified Off-site tree. Bifurcated at 1m.			A.2 >40 yrs
Age Classifications:		N Y SM	Newly planted Young Semi-mature	EM M OM	Early Mature Mature Over Mature	Condition:		C S B	Crown Stem Basal area	Stems:	Ø (Eq)	Diameter Equivalent stem diameter using BS5837:2012 definition		

Tree and Tag No Species		Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations			Cat ERC
			No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment			
T296 296														
Sycamore <i>Acer pseudoplatanus</i>		11	1	320	N E S W	6 5 4 5	4 4 4 3	SM A: 46.3 R: 3.83	Good	C: Good S: Good B: Good	No action :: Unspecified			C.2 >40 yrs
T297 297														
Sycamore <i>Acer pseudoplatanus</i>		9	1	520	N E S W	6 5 4 5	3 4 4 4	SM A: 122.3 R: 6.23	Good	C: Good S: Good B: Good	No action :: Unspecified			C.2 >40 yrs
T298 298												Estimated Measurements		
London Plane <i>Platanus x hispanica</i>		7	1	800				OM A: 289.6 R: 9.6	Poor	C: Poor S: Poor B: Poor	Fell :: Fell to ground level Decayed monolith.			U
T299 299														
Sycamore <i>Acer pseudoplatanus</i>		18	1	820	N E S W	7 6 6 7	6 4 3 3	SM A: 304.2 R: 9.84	Poor	C: Fair S: Fair B: Poor	Fell :: Fell and remove stump(s) Decay at base; deadwood and cavities in crown; weak union at stem break.			U <10 yrs

Report selection criteria.

Projects.

Tyn-y-Cae, Margam

Date Range.

Any Date

Work types.

----> Fell :: Fell and remove stump(s)
 ----> Fell :: Fell and treat stump(s)
 ----> Fell :: Fell to ground level
 ----> Fell :: To facilitate development
 ----> Further inspection :: Unspecified
 ----> No action :: Unspecified
 ----> Remove :: Epicormic growths

Latest Survey.

All surveys for the selected trees.
 ---> Last survey for each selected tree.

Work Completed.

---> Work Completed
 ---> Work Not Completed

Number of trees in selected Project(s) **74**

Number of trees in Report selection **74**

Age Classifications:

N	Newly planted	EM	Early Mature
Y	Young	M	Mature
SM	Semi-mature	OM	Over Mature

Condition:

C	Crown
S	Stem
B	Basal area

Stems:

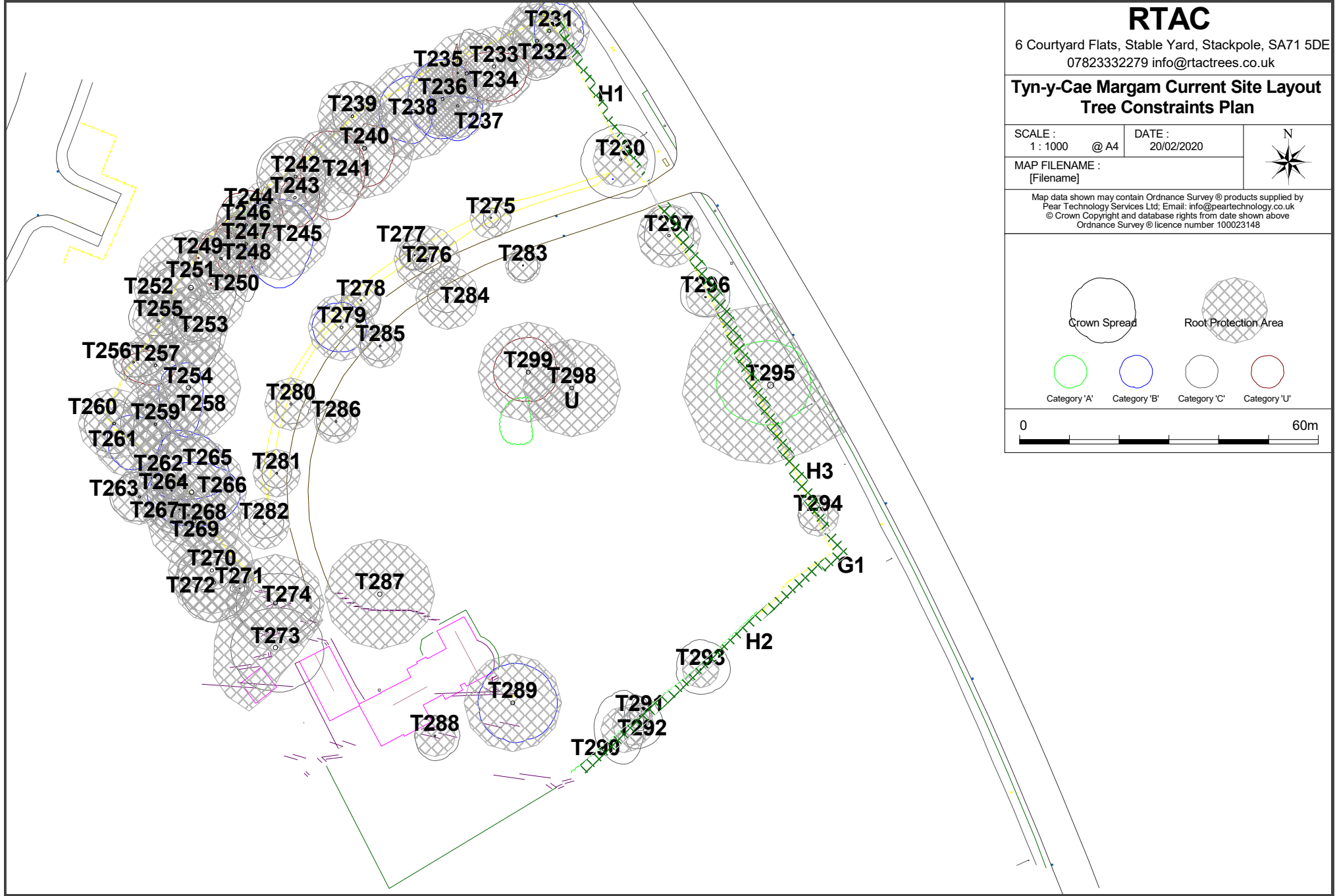
Ø	Diameter
(Eq)	Equivalent stem diameter using BS5837:2012 definition



6th March 2020

Tyn-y-Cae, Margam

II. Site Plans



RTAC

6 Courtyard Flats, Stable Yard, Stackpole, SA71 5DE
07823332279 info@rtactrees.co.uk

Tyn-y-Cae Proposed Layout Tree Protection Plan

SCALE :

1 : 1000

@ A4

DATE :

06/03/2020

N



MAP FILENAME :

[Filename]

Map data shown may contain Ordnance Survey © products supplied by
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Crown Spread

Root Protection Area



Category 'A'



Category 'B'



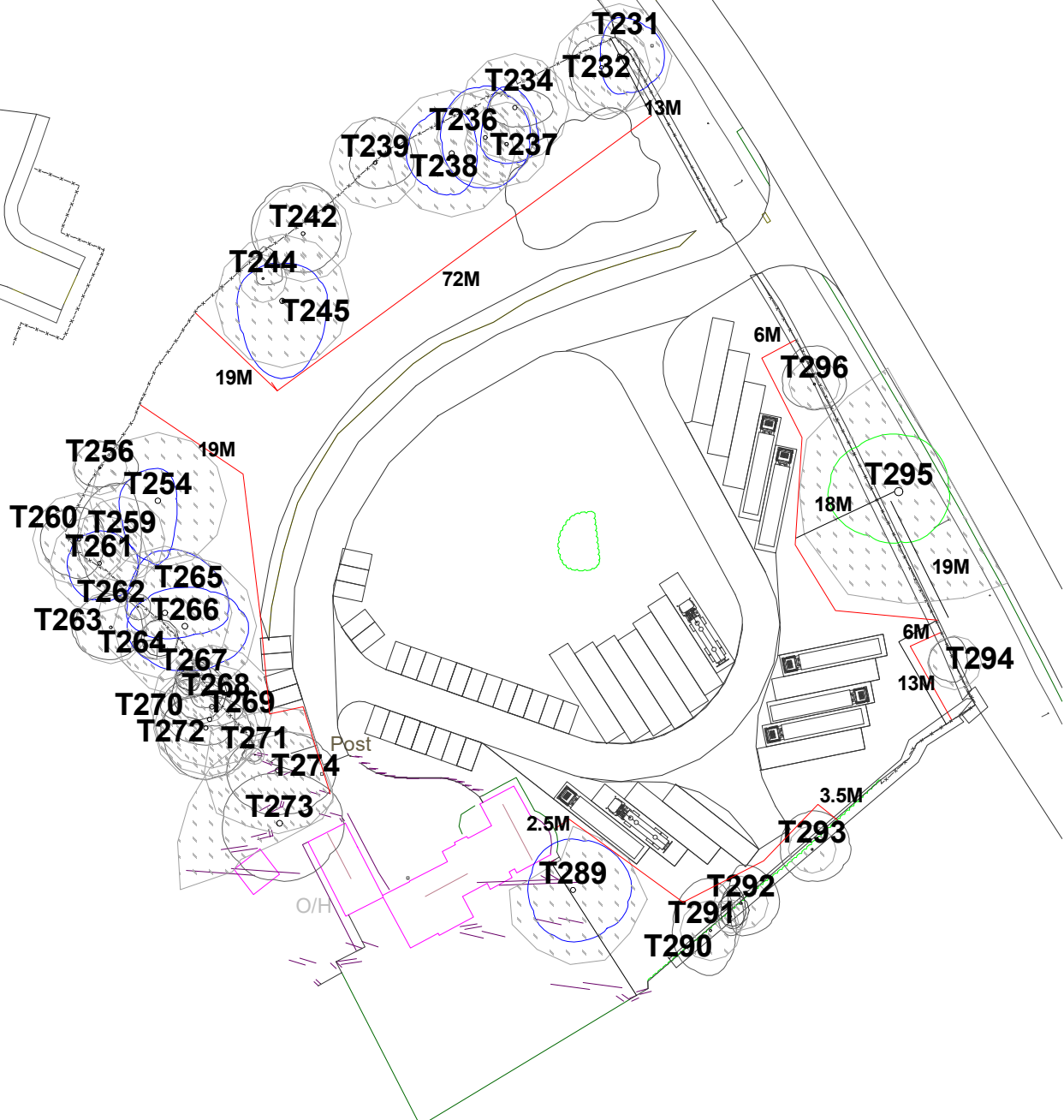
Category 'C'



Category 'U'

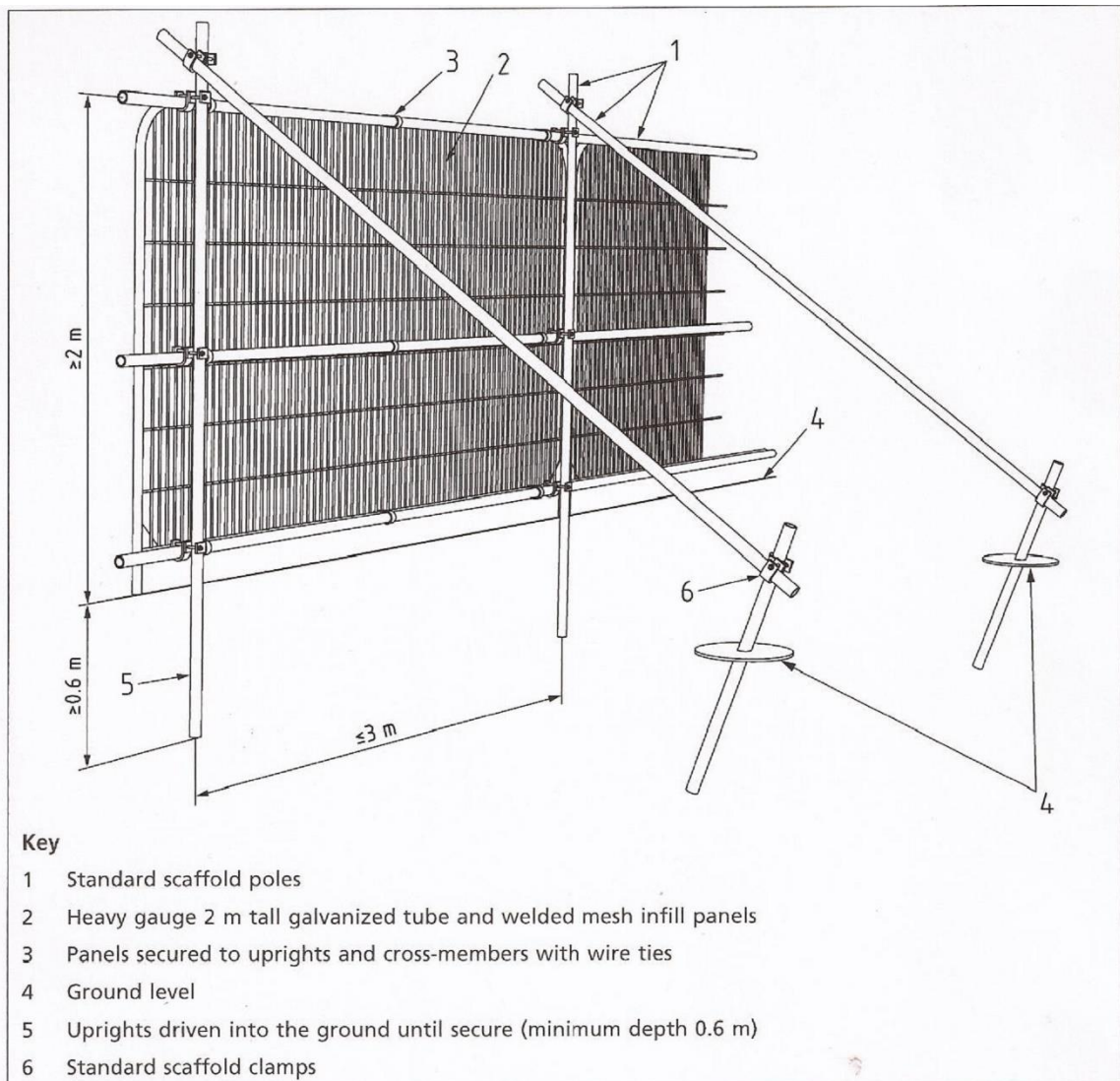
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60m



— HERAS FENCE

III. Fencing



IV. Photographs



Existing access to property



North boundary trees



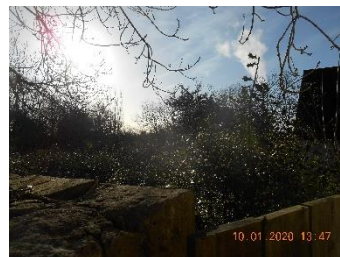
T287



T295 on east boundary



Looking north towards T289 and house



House garden



Trees on north boundary

V. Qualifications

Qualifications:

AA Technicians Certificate 2009
BSc. Heritage Conservation 2ii
Electrical Arboriculture Units 1 and 2a
NVQ Level 2 Environmental Conservation
NPTC CS 30, 31, 39, climb trees and perform aerial rescue

CPD:

Bats and Arboriculture: a Practitioner's guide
BS 5837:2012. Tree Surveying and Categorisation
Subsidence 1 day workshop
Assessment of Tree Forks: Assessment of Junctions for Risk Management
The Hollow Tree – Arboriculture
Introduction to Soils

VI. Bibliography

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Diagnosis of Ill-health in Trees (1994) Strouts and Winter; TSO.

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