



BS5837:2012

**Trees in relation to design, demolition and construction –
Recommendations**

Tree Survey

Over the Moon

Woodlay Farm,
Herodsfoot,
Liskeard,
PL14 4RB.

16 November 2020

Author: David Garrick FDSc, MArborA

Introduction

Arbtech Consulting Limited (Arbtech) received written instruction on 23rd October 2020 from Over the Moon to attend Woodlay Farm, Herodsfoot, Liskeard, PL14 4RB; grid reference, SX 18759 60569 (site) to undertake an arboricultural survey a to BS5837:2012 guidance to assess trees, hedges and major shrub groups growing on and within influencing distance of the site and to produce a Schedule of trees, Tree Constraints Plan, Arboricultural Impact Assessment, Arboricultural Method Statement and Tree Protection Plan.

I am David Garrick, an arboricultural surveyor at Arbtech Consulting Ltd. I undertook the tree survey on 9th November 2020 and subsequently have produced this summary of my findings.

I passed the FDS in Forestry in 2007. I also hold the LANTRA Professional Tree Inspector certification. I benefit from professional industry experience spanning ten years. I also have professional membership with the Arboricultural Association.

The advice below and appended is underwritten by our Professional Indemnity insurance for the business practice of Arboricultural Consultancy in the sum of one million Pounds Sterling in each and every claim.

Table 1: Documents referred to.

Document	Reference No.
Survey base drawing	Site Plan
LPA pre-app comments	N/A
British Standard 5837:2012	"BS5837"
Tree Survey Schedule	Arbtech TS 01
Tree Constraints Plan	Arbtech TCP 01

Tree Survey

Survey: An arboricultural survey to BS5837 of all trees within impacting distance of the site was undertaken by David Garrick on 9th November 2020.

During the survey I categorised the trees using "Table 1 – Cascade chart for tree quality assessment" of the BS5837:2012 (see Appendix 1).

A total of 24 (twenty-four) individual trees, 3 (three) groups of trees and 2 (two) hedges were surveyed. Details for each of the trees surveyed are provided in the Schedule of Trees (see Appendix 2).

Table 2: Documents upon which this tree survey has been based.

Document	Originator	Reference Number	Title
Topo	-	-	Site Plan

Limitations: The survey was made at ground level using visual observation only. Detailed examinations, such as climbing inspections and decay detection equipment were not employed, though may form part of the survey's management recommendations. Measurements were taken using specialist tapes, laser and GPS devices. Where this was not possible, measurements are estimated.

Scope: Pre-development tree surveys make arboricultural management recommendations based exclusively upon the individual tree or group of trees condition relative to their present context (*i.e. not in relation to the proposed development*).

Legal Status: No statutory protection check has been performed. BS5837 does not draw any distinction between trees subject to statutory protection, such as a Tree Preservation Order ("TPO"), and those trees without. This is principally because a detailed planning consent overrides any TPO protection. Consequently, we do not seek to offer any comparison between or infer any difference in the quality or importance of TPO trees and other trees.

* For more information on the surveyed trees please see Arbtech Consulting Ltd, Tree Survey Schedule (Appendix 1), Tree Survey Report and Tree Constraints Plan.

Site description

The Site is situated to the east of the B3359. The site is bordered by Agricultural land to the north, east & south. The existing dwelling is situated to the east of the site. The trees are predominantly situated on the boundaries of the site the exception being the collection of fruit trees and Group G2 which is to the west of the existing dwelling.

Figure 1: OS Map (Bing Maps)

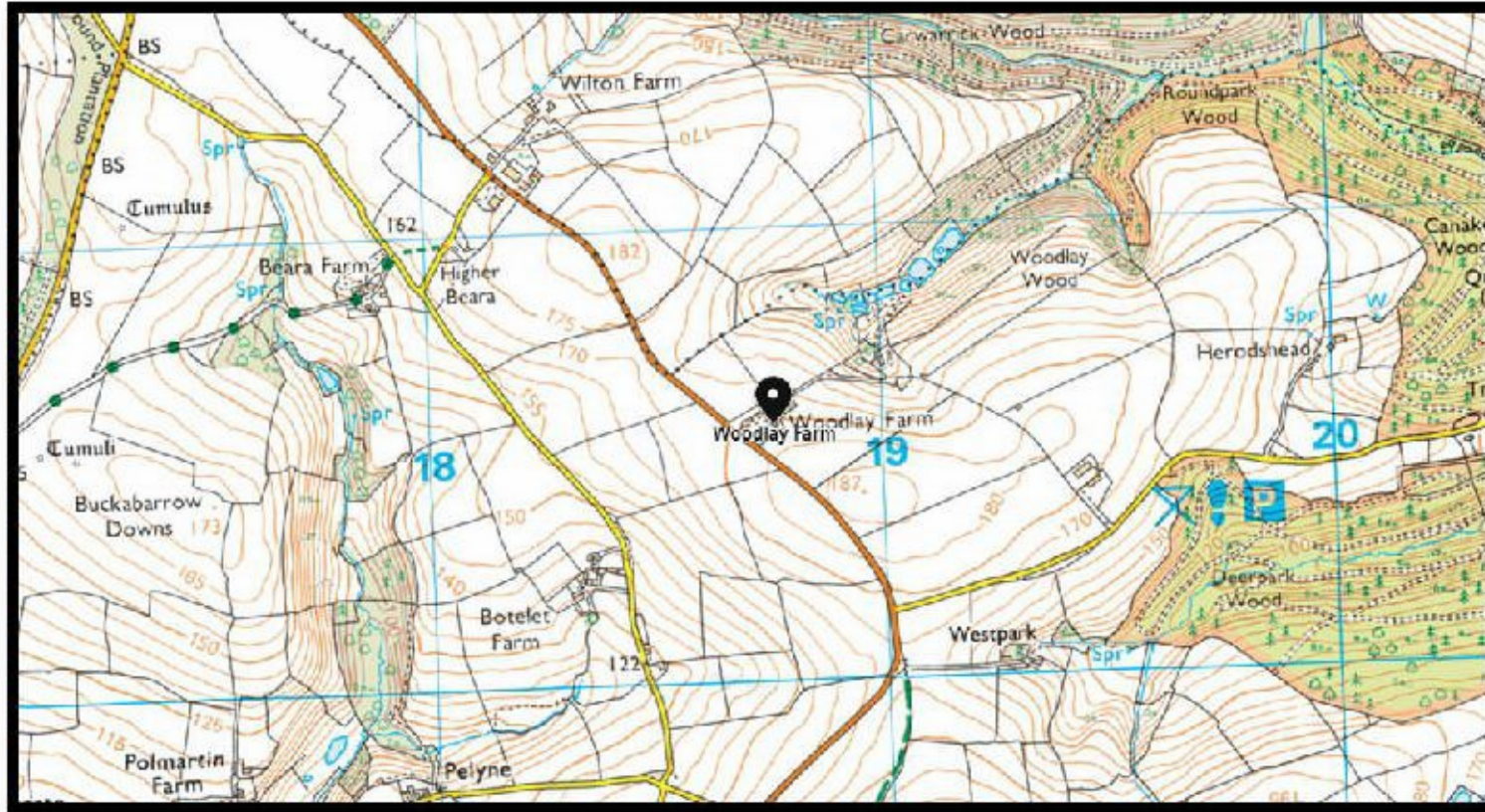


Figure 2: Aerial Image of site (Bing Maps)



The proposal is for the demolition of the existing house & garage and the erection of a new dwelling.

It is likely that arboricultural impacts can be addressed with arboricultural methodology or minor amendments to the proposal.

This content is for educational and informative purposes; so parts of it are reproduced with the kind permission of BSI Global.

BS5837:2012 Scope

This standard recognises that there can be problems for development close to existing trees which are to be retained, and of planting trees close to existing structures. This standard sets out to assist those concerned with trees in relation to construction to form balanced judgements. It does not set out to put arguments for or against development, or for the removal or retention of trees. Where development, including demolition, is to occur, the standard provides guidance on how to decide which trees are appropriate for retention, on the means of protecting these trees during development, including demolition and construction work, and on the means of incorporating trees into the developed landscape.

Methodology

The methodology used to assess the trees was the British Standard 5837:2012 'Trees in Relation to Construction' tree survey method. The aim of the survey is to establish which trees are moderate and good quality; suitable for retention and justifying protection. And, which trees are low or poor quality; either undesirable or unsuitable to retain and protect.

The tree survey includes all trees included in the land survey red line boundary plan, as well as any that may have been missed, and it should categorize trees or groups of trees, including woodlands for their quality and value within the existing context, in a transparent, understandable and systematic way. Where the arboriculturist has deemed it appropriate, the trees have been tagged with small metal or plastic tags, placed as high as is convenient on the stem of each tree.

Whilst master plan proposals for the development of the site might be available, the trees have been surveyed without taking these into consideration. All detailed design work on site layout should take into consideration the results of the tree survey (and the TCP).

Trees forming groups and areas of woodland (including orchards, wood pasture and historic parkland) are identified and considered as groups where the arboriculturist has determined that this is appropriate, particularly where they contain a variety of species and age classes that could aid long-term management. It is often expedient to assess the quality and value of such groups of trees as a whole, rather than as individuals. However, an assessment of individuals within any group has been undertaken if they are open-grown or if there is a need to differentiate between them.

The quality and value of each tree or group of trees has been recorded by allocating it to one of the four categories; **A**, **B**, **C**, or **U** (highest to lowest quality respectively). The categories are differentiated on the tree survey plan by colour, or by suffixing the category adjacent to the tree identification number on the TCP.

The survey schedule lists all the trees or groups of trees. The following information is also provided:

- I. reference number (to be recorded on the tree survey plan);
- II. species (common or scientific names);
- III. height in meters (m);
- IV. stem diameter in millimeters (mm) at 1.5 m above adjacent ground level or immediately above the root flare for multi-stemmed trees;
- V. branch spread in meters taken at the four cardinal compass points;
- VI. height of crown clearance above adjacent ground level in meters (m);
- VII. age class (Newly planted, Young, Semi-mature, Early mature, Mature, Over mature);
- VIII. physiological condition (e.g. good, fair, poor, decline and dead);
- IX. structural condition (e.g. good, fair, poor and ivy);
- X. preliminary management recommendations, including further investigation of suspected defects that require more detailed assessment and potential for wildlife habitat; and
- XI. The retention category referring to the quality and useful contribution in years; **U** = <10yrs; **A** = >40yrs; **B** = >20yrs; **C** = >10yrs. The retention sub category referring to the type of amenity; 1 = Arboricultural; 2 = Landscape; 3 = Cultural including conservation (see Table 1 Cascade chart for tree quality assessment).

Definitions

Arboriculturist

An arboriculturist (or arboricultural consultant) is a person who has, through relevant education, training and experience, gained recognized qualifications and expertise in the field of trees in relation to construction.

Tree Survey

A tree survey should be undertaken by an arboriculturist and should record information about the trees on a site independently of and prior to any specific design for development. As a subsequent task, and with reference to a design or potential design, the results of the survey should be included in the preparation of a tree constraints plan, which should be used to assist with site layout design.

Tree Constraints Plan

A TCP is plan, typically delivered as an AutoCAD drawing (.file format), prepared by an arboriculturist for the purposes of layout design showing the root protection area and representing the effect that the mature height and spread of retained trees will have on layouts through shade, dominance, etc.

Root Protection Area

An RPA is a layout design tool indicating the area surrounding a tree that contains sufficient rooting volume to ensure the survival of the tree, shown in plan form in m².

Construction Exclusion Zone (also termed Tree Protection Zone)

A construction exclusion or tree protection zone is an area based on the RPA (in m²), identified by an arboriculturist, to be protected during development, including demolition and construction work, by the use of barriers and/or ground protection fit for purpose to ensure the successful long-term retention of a tree.

Arboricultural Impact Assessment

This is a study, undertaken by an arboriculturist, to identify, evaluate and possibly mitigate the extent of direct and indirect impacts on existing trees that may arise as a result of the implementation of any site layout proposal.

Tree Protection Plan

A TPP is plan, typically delivered as an AutoCAD drawing (.dwg file format), prepared by an arboriculturist showing the finalized layout proposals, tree retention and tree and landscape protection measures detailed within the arboricultural method statement, which can be shown graphically.

Arboricultural Method Statement

This is a methodology for the implementation of any aspect of development that has the potential to result in loss of or damage to a tree. The AMS is likely to include details of an on-site tree protection monitoring regime.

Recommendations

With the benefit of making an assessment of your planning proposals, we make the following recommendation to ensure that there are no irrevocable issues to the proposed retained trees and so that no conditions relating to arboriculture are attached to any planning consent secured; obtain an arboricultural report to include:

- a) An arboricultural impact assessment (AIA)
- b) An arboricultural method statement (AMS)
- c) A tree protection plan drawing (TPP)

Limitations

Trees were inspected from using visual observation from ground level only. Trees were not climbed or inspected below ground level. Inaccessible trees will have best estimates made about the location, physical dimensions and characteristics. Trees have been grouped where BS5837 guides us that it is expedient to do so. Trees have been excluded from the survey if they are found by us to be sufficiently far away from the proposed developable area or if they are outside of the red line boundary plan showing the expectations of our Client for the extent of the survey. BS5837 does not draw any distinction between trees subject to statutory protection, such as a Tree Preservation Order ("TPO"), and those trees without. This is principally because a detailed planning consent overrides any TPO protection. Consequently, we do not seek to offer any comparison between or infer any difference in the quality or importance of TPO trees and other trees.

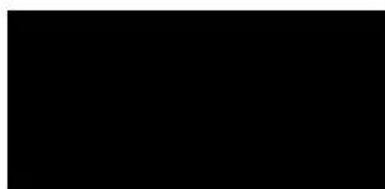
Appendices

The following documents were released to the Client as appendices to this report:

- Survey Schedule (.pdf)
- Tree Constraints Plan drawing (.dwg & .pdf)

If you require clarification of information contained herein, please do not hesitate to contact us via 01244 661170.

Yours Sincerely,



David Garrick FDS, MArborA
Arboricultural Consultant



Appendix 1: Table 1 Cascade chart for tree quality assessment

BS5837:2012 Trees in relation to design, demolition and construction – Recommendations

Table 1

Cascade chart for tree quality assessment

Category and definition	Criteria (including subcategories when 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	<ul style="list-style-type: none">• Trees that have 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 might be desirable to preserve; see 4.5.7.</i>			Dark red
	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 dominate 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)	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 remedial defects, including unsympathetic management and storm damage), such that they are unlikely to be suitable for retention of 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 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 collective landscape value; and/or trees offering low or only temporary/transient landscape value	Trees with no material conservation or other cultural value	Grey

This content is for educational and informative purpose and has been reproduced with the kind permission of BSI Global

Appendix 2: Schedule of Trees

BS5837:2012 Tree Survey

Arbtech Consulting Ltd

Client: Over the Moon
 Project: Woodlay Farm, Herodsfoot, Liskeard, PL14 4RB
 Survey Date: 09/11/2020
 Surveyor: David Garrick



Unit 3 Well House Barns
 Chester Road
 Chester
 CH4 0DH
 Phone: 01244 661170
<http://arbtech.co.uk>

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				
C1															
Various <i>see comments for details</i>		2	1	70	N E S W	2 2 2 2	1 1 1 1	Y	A: 2.2 R: 0.83	Fair	C: Fair S: Fair B: Good	A collection of fruit trees. Maximum dimensions recorded			C.1 10+ yrs
G1															
Leyland Cypress <i>X Cupressocyparis leylandii</i>		9	1	180	N E S W	3 3 3 3	2 2 2 2	SM	A: 14.7 R: 2.16	Good	C: Fair S: Good B: Good	Leylandii high hedge situated on property boundary			C.2 10+ yrs
G2															
Leyland Cypress <i>X Cupressocyparis leylandii</i>		12	1	460	N E S W	4 4 4 4	2 2 2 2	EM	A: 95.7 R: 5.51	Fair	C: Fair S: Fair B: Good	Group of 17 Leyland cypress. Situated in the front lawn of the property. Individual crowns suppressed by neighbouring trees within the group			B.1 20+ yrs
G3															
Various <i>See comments for details</i>		12	6	637 (Eq)	N E S W	5 5 5 5	2 2 2 2	M	A: 183.5 R: 7.64	Good	C: Fair S: Good B: Good	Mature group along boundary of garden.			B.1.2 20+ yrs
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	ERC:		Estimated Remaining Contributio			

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			
H1														
Various <i>see comments for details</i>		1.8	1	50	N	0.5	0	Y	A: 1.1 R: 0.59	Good	C: Fair S: Fair B: Fair	Privet hedge on garden boundary		C.2 20+ yrs
H2														
Leyland Cypress <i>X Cupressocyparis leylandii</i>		6	1	130	N	2	2	SM	A: 7.6 R: 1.55	Good	C: Fair S: Fair B: Fair	Leylandii high hedge		C.2 10+ yrs
1														
Leyland Cypress <i>X Cupressocyparis leylandii</i>		10	5	426 (Eq)	N	2	1.5	EM	A: 82 R: 5.1	Fair	C: Fair S: Fair B: Good	Multi stemmed from base. Decay present within smallest stem.		B.1 20+ yrs
2														
Leyland Cypress <i>X Cupressocyparis leylandii</i>		9	10	759 (Eq)	N	5	0	M	A: 260.6 R: 9.1	Good	C: Fair S: Fair B: Fair	Multi stemmed from base. Stems lean east, 1 stem grows lateral to ground		B.1 20+ yrs
3														
Leyland Cypress <i>X Cupressocyparis leylandii</i>		9	10	443 (Eq)	N	2	4	M	A: 88.7 R: 5.31	Fair	C: Fair S: Fair B: Fair	Multi stemmed from base. Overtopped by neighbouring tree		C.1 10+ yrs
4														
Atlas Cedar <i>Cedrus atlantica</i>		20	1	1260	N	9	2	M	A: 707 R: 15	Fair	C: Fair S: Poor B: Good	Wound on west of stem from 0.5m-4m (stem union) decay present within stem. Previously snapped out limbs partially hung up in crown. Major deadwood in crown (>50mm)		C.1 10+ yrs
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	ERC:			Estimated Remaining Contributio	

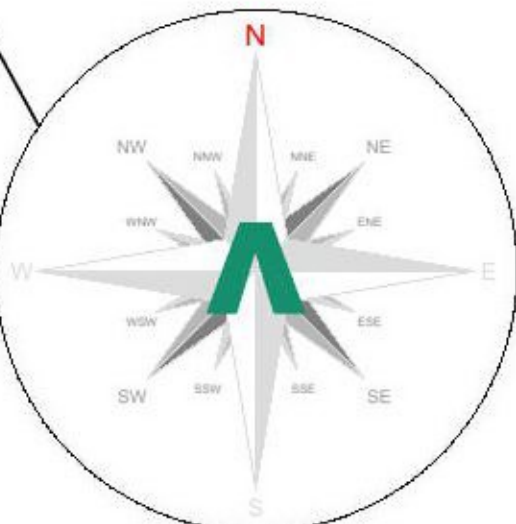
Tree and Tag No Species		Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations			Cat ERC
			No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment			
5														
Atlas Cedar <i>Cedrus atlantica</i>		16	1	1160	N	9	6	M	A: 608.8 R: 13.92	Fair	C: Fair S: Fair B: Good	Cavity on west of stem at 1.5m. decay present within stem. Major deadwood in crown (>50mm)		B.1 20+ yrs
6														
Common Lime <i>Tilia europaea</i>		7	4	333 (Eq)	N	4	2	SM	A: 50.2 R: 3.99	Fair	C: Fair S: Fair B: Fair	Multi stemmed from base. Overtopped by neighbouring tree		C.1 10+ yrs
7														
Leyland Cypress <i>X Cupressocyparis leylandii</i>		10	2	394 (Eq)	N	4	1	EM	A: 70.3 R: 4.73	Fair	C: Fair S: Good B: Good	2 co-dominant stems from 0.5m.		B.1 20+ yrs
8														
Leyland Cypress <i>X Cupressocyparis leylandii</i>		10	1	330	N	4	2	EM	A: 49.3 R: 3.96	Fair	C: Fair S: Good B: Good	Crown suppressed by neighbouring tree.		B.1 20+ yrs
9														
Cultivated Apple <i>Malus domestica</i>		4	2	106 (Eq)	N	3	1	Y	A: 5.1 R: 1.27	Good	C: Fair S: Good B: Good	2 co-dominant stems from 1.3m		C.1 10+ yrs
10														
Leyland Cypress <i>X Cupressocyparis leylandii</i>		7	1	260	N	0	6	SM	A: 30.6 R: 3.12	Poor	C: Poor S: Fair B: Fair	Crown suppressed by neighbouring trees		C.1 10+ yrs
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	ERC:			Estimated Remaining Contributio	

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		
11													
Leyland Cypress <i>X Cupressocyparis leylandii</i>		5	1	100	N	0	4	Y	A: 4.5	Poor	C: Poor	Crown suppressed by neighbouring trees. Cavity at base of stem	U <10 yrs
					E	0	4		R: 1.19		S: Fair		
					S	2	4				B: Poor		
					W	1	4						
12													
Leyland Cypress <i>X Cupressocyparis leylandii</i>		11	1	200	N	0.5	7	SM	A: 18.1	Poor	C: Poor	Crown suppressed by neighbouring trees. Decay at base of stem	U <10 yrs
					E	0.5	7		R: 2.4		S: Fair		
					S	0.5	7				B: Poor		
					W	1.5	7						
13													
Leyland Cypress <i>X Cupressocyparis leylandii</i>		8	2	172 (Eq)	N	0	7	SM	A: 13.4	Poor	C: Poor	Crown suppressed by neighbouring trees. Decay at base of stem	U <10 yrs
					E	1	4		R: 2.06		S: Fair		
					S	2	3				B: Poor		
					W	1	4						
14													
Leyland Cypress <i>X Cupressocyparis leylandii</i>		9	1	150	N	0	6	SM	A: 10.2	Poor	C: Poor	Crown suppressed by neighbouring trees	C.1 10+ yrs
					E	0	6		R: 1.8		S: Fair		
					S	2	6				B: Fair		
					W	1.5	5						
15													
Leyland Cypress <i>X Cupressocyparis leylandii</i>		12	6	490 (Eq)	N	4	2	EM	A: 108.6	Fair	C: Fair	Multi stemmed from base. Fire damage on stem.	B.1 20+ yrs
					E	4	2		R: 5.87		S: Fair		
					S	4	1				B: Good		
					W	4	2						
16													
Leyland Cypress <i>X Cupressocyparis leylandii</i>		12	3	703 (Eq)	N	2	3	M	A: 223.5	Fair	C: Fair	Multi stemmed from base. Stems to north previously removed, decay present at wound sites	B.1 20+ yrs
					E	5	1		R: 8.43		S: Fair		
					S	4	2				B: Fair		
					W	4	1						
Age Classifications: N Newly planted EM Early Mature Condition: C Crown													
Y Young M Mature S Stem													
SM Semi-mature OM Over Mature B Basal area													
Stems: Ø Diameter													
(Eq) Equivalent stem diameter using BS5837:2012 definition													
ERC: Estimated Remaining Contributio													

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				
17															
Leyland Cypress <i>X Cupressocyparis leylandii</i>		12	4	725 (Eq)	N E S W	4 5 5 4	3 1 2 1	M	A: 237.9 R: 8.7	Fair	C: Fair S: Fair B: Good	Multi stemmed from base.		B.1 20+ yrs	
18															
Cupressus <i>Cupressus Sp.</i>		6	2	398 (Eq)	N E S W	4 1 2 3	1 2 1 1	EM	A: 71.7 R: 4.77	Fair	C: Fair S: Fair B: Fair	Unsympathetically pruned		C.1 10+ yrs	
19															
Leyland Cypress <i>X Cupressocyparis leylandii</i>		11	1	390	N E S W	4 4 3 3	3 2 4 4	EM	A: 68.8 R: 4.67	Good	C: Fair S: Good B: Good	1 stem previously removed		B.1 20+ yrs	
20															
Leyland Cypress <i>X Cupressocyparis leylandii</i>		11	2	506 (Eq)	N E S W	3 3 4 4	1 1 1 1	EM	A: 115.9 R: 6.07	Good	C: Fair S: Good B: Good	Multi stemmed from base		B.1 20+ yrs	
21															
Cupressus <i>Cupressus Sp.</i>		6	2	405 (Eq)	N E S W	3 3 2 3	1 1 1 1	EM	A: 74.1 R: 4.85	Fair	C: Fair S: Fair B: Fair	Unsympathetically pruned		C.1 10+ yrs	
22															
Leyland Cypress <i>X Cupressocyparis leylandii</i>		6	5	221 (Eq)	N E S W	2 3 3 3	2 2 2 2	SM	A: 22 R: 2.64	Good	C: Fair S: Good B: Good	Multi stemmed from base		C.1 10+ yrs	
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			ERC:		Estimated Remaining Contributio

[illegible]

Appendix 3: Tree Constraints Plan



Indicative only

Tree Categories

Trees are categorised in accordance with the cascade chart in Table 1 of the British Standard BS 5837:2012 'Trees in relation to design, demolition and construction - Recommendations'

Category 'U' - Trees in such condition that they cannot realistically be retained as living trees in context of the current land use for longer than 10 years.

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.

Root Protection Area

In order to avoid damage to the roots or rooting environment of retained trees, the Root Protection Areas (RPAs) should be plotted around each of the category 'A', 'B' and 'C' trees. This is a minimum area in m² which should be left undisturbed around each retained tree.

The RPA is calculated using the British Standard BS 5837:2012 'Trees in relation to design, demolition and construction - Recommendations'.

The calculated RPA is capped to 707m², which is the equivalent to a circle with a radius of 15m. Where there appears to be restrictions to root growth the root protection area is reshaped to more accurately reflect the likely distribution of the roots.

Tree Survey Report

Please refer to Arbttech Consulting Ltd. Tree Survey Report and Tree Schedule for full details on all surveyed trees, hedgerows and major shrub groups.

All trees were surveyed and categorised in accordance with the guidance as set out in the British Standard BS5837:2012 Tree in relation to design, demolition and construction - Recommendations.

We make the following recommendation to ensure that no conditions relating to arboriculture are attached to any planning consent secured: obtain and arboricultural report to include:

- a) An arboricultural impact assessment (AIA);
- b) An arboricultural method statement (AMS); and
- c) A tree protection plan (TPP).

ARBTECH

Unit 3, Well House Barns, Chester, CH4 0DH
<https://arbttech.co.uk>, 01244 661170

Project:

Woodlay Farm,
Herodsfoot,
Liskeard,
PL14 4RB

Client:

Over the Moon

Drawing:

Tree Constraints Plan

Based on:

Site Plan

Drawing No:

Arbttech TCP 01

Rev:

Date:

Nov 2020

Scale:

1:200 @ A1

Drawn:

DCG

Key:

Tree Nos.:	1	Tree Canopies:		Trunks:	
RPAs:		Category 'U' trees:		Category 'B' trees:	
Category 'B' groups:		Category 'C' trees:		Category 'C' groups:	
Generic notional root barriers:		Potential notional shading arc:			

All dimensions should be checked on site. No dimensions are to be scaled from this drawing. Please notify us if any discrepancies found. Arbttech Consulting Ltd. cannot be held responsible for inaccuracies in the base drawing in which this plan is based.


This drawing is designed to reflect the principles of the layout or design only, and relates only to the protection of retained trees.

This drawing is not to be read as a definitive part of the engineering or construction designs or method statement. An architect or structural engineer should be contacted over any matters of construction, detailing or specification and for any standards or regulatory requirements relating to proposed structures, hard surfacing or underground services.

This drawing was produced in colour - a monochrome copy should not be relied upon.

© Arbttech Consulting Ltd, 2020

Document Production Record

Document number	Editor	Signature	Position	Issue number	Date
Arbtech TSR 01	David Garrick		Consultant	1	16/11/2020

Limitations

Arbtech Consulting Ltd has prepared this Report for the sole use of the above named Client/Agent in accordance with our terms of business, under which our services were performed. No other warranty, expressed or implied, is made as to the professional advice included in this Report or any other services provided by us. This Report may not be relied upon by any other party without the prior and express written agreement of Arbtech Consulting Ltd. The assessments made assume that the sites and facilities will continue to be used for their current purpose without significant change. The conclusions and recommendations contained in this Report are based upon information provided by others and upon the assumption that all relevant information has been provided by those parties from whom it has been requested. Information obtained from third parties has not been independently verified by Arbtech Consulting Ltd.

Copyright

© This Report is the copyright of Arbtech Consulting Ltd. Any unauthorised reproduction or usage by any person other than the addressee is strictly prohibited.