

# BS5837 Tree Survey

Underwood The Hill Millom LA18 5EZ

October 2023

### Project details

Job no.	LTC237							
Site	nderwood, The Hill, Millom, LA18 5EZ							
Clients	Mr and Mrs Slack							
Agent	HM Architecture (NW) LLP							
Arboriculturist	Jennie Keighley PhD MSc MArborA							
Local authority	Cumberland Council							
Issue date	30 October 2023							

Lakeland Tree Consultancy

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### Summary

- The clients' agent instructed Lakeland Tree Consultancy to survey the trees at the site in question in relation to a planning application for the erection of outbuildings.
- Trees with potential to be impacted by the proposed works were surveyed in accordance with the British Standard guidance outlined in BS5837: 2012 *Trees in relation to design, demolition and construction Recommendations* on 30 October 2023.
- The survey identified six individual trees, four groups of trees and a woodland edge, which were located both within the site and on areas of immediately adjacent land.
- Details and locations of the existing trees in relation to the existing site are included in the tree survey schedule and on the tree survey plan, below. These documents should be used to inform the proposed site design in accordance with BS5837.



# BS5837 Tree Survey Schedule

The trees surveyed have been assigned one of the following categories, in line with the guidance outlined in British Standard 5837 (2012) *Trees in relation to design, demolition and construction - Recommendations*: -

A Trees of high quality with an estimated remaining life expectancy of at least 40 years
 B Trees of moderate quality with an estimated remaining life expectancy of at least 20 years
 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
 U Sustiable for retention 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

T G	Tree Group	Age is classed as either: young; semi-mature, early-mature, mature or post-mature						
W H	Woodland Hedge	Life expectancy is classed as either: <10 years; 10+ years; 20+ years or 40+ years						
	Post protection area	The radial RPA is calculated as twelve times the stem diameter and represents the area where protection of the tree roots during development works is essential to the tree's future health and survival						
RPA	Root protection area	Where the RPA is not shown as circular on the tree survey plan, it may have been modified to take account of built structures such as buildings, roads or retaining walls						
#	Estimated values	Measurements may have been estimated where the tree is inaccessible, such as if it is located on neighbouring land or if the stem is heavily covered in ivy						
		Where trees have multiple stems, an average stem diameter may be given						
≤≥≈	For groups of trees and hedges, measurements for the largest individual will be given or average measurements may be given where the							

individuals are approximately uniform

BS5837	7 Tree survey	schedu	lle										
Site	Underwood,	The Hill,	Millom	, LA18	5EZ	Su	rveyor J	lennie Keigł	ר <b>ופא</b> PhD	MSc MArborA		Survey date	30 October 2023
Clients	Mr and Mrs S	Slack				Co	nditions	ntermittent l	ight rai	n, light br	eeze	Job no.	LTC237
ID no.	Species Latin name	Stem diameter (mm)	Age	Height (m)#	Crown spread (m)	Crown clearance (m)	Structural condition Physiological condition	Life expectancy (years)	Radial RPA (m)	BS5837 category		General observ	rations
T1	orse chestnut Aesculus	1170 890	Post- mature	18	N 5.5 E 10 S 7.5 W 3.5	1.5	Poor	<10	15	U	<ul> <li>height of 2</li> <li>Visible de to a heigh stem is ex (white rot</li> <li>Stem lesic horse che <i>Pseudome</i></li> <li>Twig disto indicate a</li> <li>Crown heat</li> <li>Tree evide western states</li> <li>Significan</li> <li>Two secon western leter stem tear-(depender</li> <li>Advise to</li> </ul>	eastern stem the 2m cay with black rhi t in excess of 3m stensively colonise decay species Ar ons indicate tree i estnut bleeding ca onas syringae pat ortions through ma significant reduct avily weighted to ently producing fra- ide in an attempt t adaptive growth ndary branch failu- eader integrity projected sed as a result of y fungus infection out, full stem or r nt on extent of de remove tree due	zomorphs from base indicates that western ed with honey fungus <i>millaria mellea</i> ) s also infected with nker (bacterium thovar <i>aesculi</i> ) ajority of crown tion in vitality east esh branch growth on to balance its crown to eastern leader ures in lower crown of d to be severely decay associated , presenting a risk of ootplate failure



BS58	37 Tree survey s	chedule	•									
Site	Underwood, Th	ne Hill, Mi	llom, L	A18 5E	Z	Surve	<b>yor</b> Jenn	Jennie Keighley PhD MSc MArborA		Survey date	30 October 2023	
Client	s Mr and Mrs Sla	ack				Condi	tions Interr	nittent light	rain, lig	ht breeze	Job no.	LTC237
ID no.	Species	Stem diameter (mm)	Age	Height (m)#	Crowr spread (m)		Structural condition Physiological	Life expectancy (years)	Radial RPA (m)	BS5837 category	General obs	ervations
	Latin name	()			()	()	condition	() •••••)	(,			
T2	Sessile oak Quercus petraea	750 750	Mature	17	N 6.5 E 6.5 S 6.5 W 6.5	1.75	Moderate Moderate	20+	12.7	В	<ul> <li>Dying back from uppe</li> <li>Bifurcates near base i</li> <li>Significant basal flare nylon mallet are sugge basal decay but no fur could be found around causative species</li> <li>Monitor for further dec appearance of fungal base of tree (oaks ma infection for many yea species responsible)</li> </ul>	nto codominant stems and sounding with a estive of a degree of ngal fruiting bodies I base to identify the line and for the fruiting bodies around y tolerate fungal
Т3	Common ash Fraxinus excelsior	760	Mature	> 20	N 3 E 3 S 7 W 7	5	Poor Poor	<10	9.12	U	<ul> <li>View obscured by Ley evidently in an advance infection with ash dieb pathogen <i>Hymenoscy</i></li> </ul>	ed stage of terminal ack disease (fungal
T4	Common ash Fraxinus excelsior	810	Mature	18	N 7 E 7 S 7 W 7	4	Poor Poor	<10	9.72	U	<ul> <li>View obscured by Ley evidently in an advance infection with ash dieb</li> <li>Ground disturbance e</li> </ul>	ed stage of terminal ack disease



BS5837 Tree survey schedule													
Site	Underwood, Tl	ne Hill, Mi	llom, L	A18 5E	Z	Survey	<b>/or</b> Jenni	e Keighley	PhD MSc M	1ArborA	Survey date 30 October 2023		
Client	s Mr and Mrs Sla	ack				Condit	<b>ions</b> Interr	nittent light	rain, lig	ht breeze	Job no. LTC237		
ID no.	Species Latin name	Stem diameter (mm)	Age	Height (m)#	Crown spread (m)	Crown clearance (m)	Structural condition Physiological condition	Life expectancy (years)	Radial RPA (m)	BS5837 category	General observations		
T5	Sessile oak	570	Mature	15	N 3.5 E 7 S 9	2	Good 2		6.84	В	<ul> <li>Ivy cover growing to upper crown has been cut and has died back</li> </ul>		
	Quercus petraea				W 7		Good				<ul> <li>Crown fully weighted south, into site</li> </ul>		
Т6	European beech	1330	Post- mature	16	N 6 E 6 S 6	4	Moderate/ Good	10+	15	в	<ul> <li>Feature tree growing on island in driveway</li> <li>Dying back from upper crown</li> <li>No fungal fruiting bodies found to identify</li> </ul>		
	Fagus sylvatica		mature		S 6 W 6		Moderate/ Good			2	<ul> <li>cause of tree's decline</li> <li>Crown repeatedly lifted in the past; wounds unoccluded to fully occluded</li> </ul>		
G1	2no. European beech	S	Early-	≤	N 5 E 5 S 5	≥	Good	40+	۲	в	<ul> <li>Pair of trees growing at either side of access to old tennis court</li> </ul>		
	Fagus sylvatica	630	mature	14	S 5 W 5	1	Good	401	7.56	D	<ul> <li>No significant visible defects</li> </ul>		

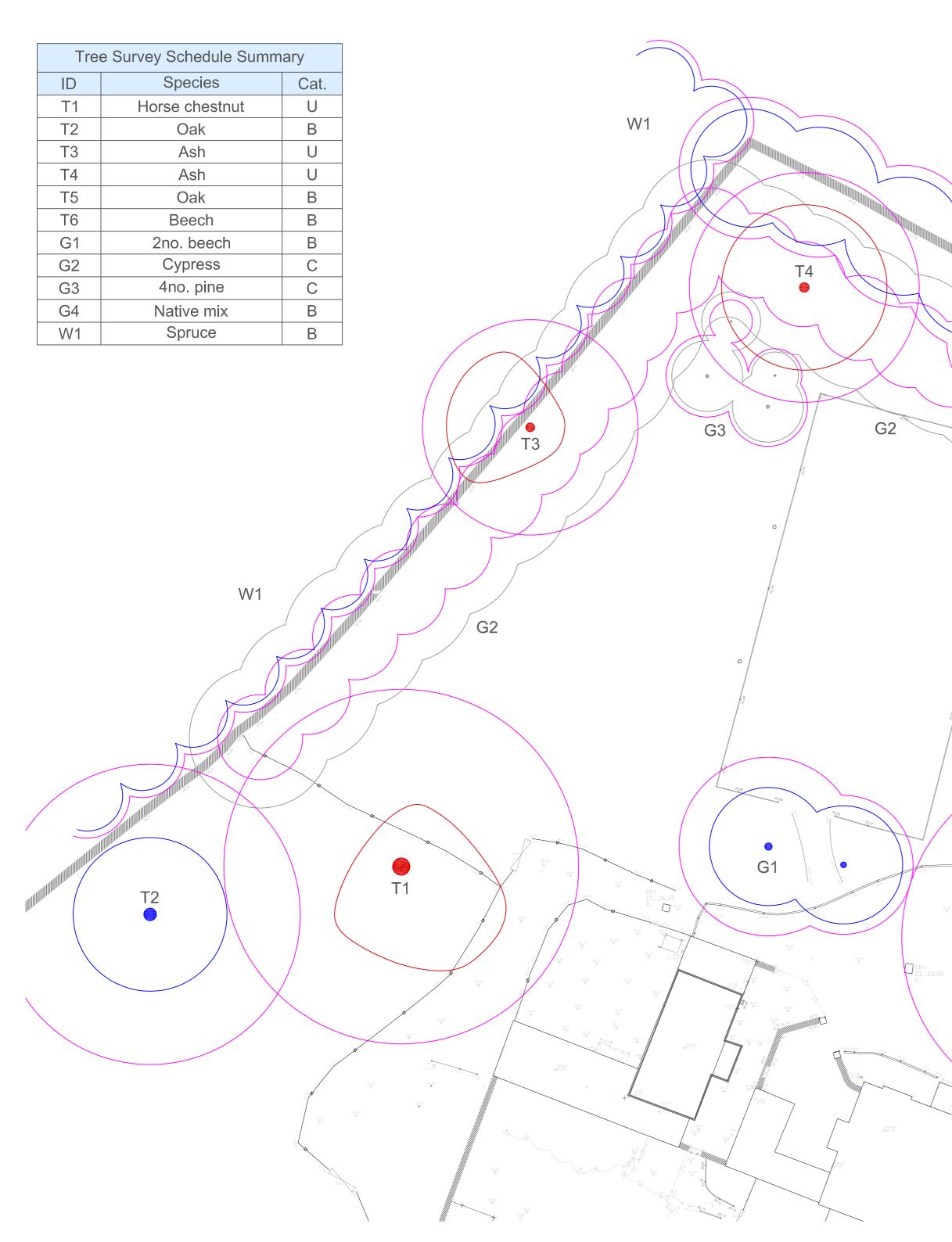


BS583	7 Tree survey sched	dule										
Site	Underwood, The Hil	I, Millom,	LA18	5EZ	S	Surveyor	Jennie Ke	ighley PhD M	ISc MArbor	A	Survey date 30 October 2023	
Clients	Mr and Mrs Slack				(	Conditions	Intermitter	nt light rain,	, light b	reeze	Job no. LTC237	
ID no.	Species Latin name	Stem diameter (mm)	Age	Height (m)#	Crown spread (m)	Crown clearance (m)	Structural condition Physiological condition	Life expectancy (years)	Radial RPA (m)	BS5837 category	General observations	
G2	Leyland cypress	≈	Mature	5	N 6 E 6	2	Good	10+	3.6	C	<ul> <li>Closely spaced linear group lining north and west of site</li> </ul>	
	Cupressus x leylandii	300		14	S 6 W 6	1.75	Good				Crowns lifted	
	4no. Scots pine	≤	Semi-	≤	N ≤3 E ≤3	B ≥ B 1.75	Good		≤	С	<ul> <li>Cluster of trees</li> <li>Ground disturbance and soil compaction evident throughout majority of RPAs</li> </ul>	
G3	Pinus sylvestris	290	mature		L = 0 S $\leq 3$ W $\leq 3$		Moderate/ Good	10+	3.48			
64	Scots pine Horse chestnut Sessile oak European beech Sycamore	≤ 770	Young to mature	4	N ≤6 E ≤6	≥ 0	Poor to Good	40+	<	В	<ul> <li>Shelterbelt screening site from neighbouring quarry access road</li> <li>Continues south-east, along access</li> </ul>	
	Pinus sylvestris Sesculus hippocastanum Quercus petraea Fagus sylvatica Acer pseudoplatanus			20+	S ≤6 W ≤6		Dead to Good	40+ 9.2	9.24	D	<ul> <li>Continues south-east, along access</li> <li>Some of trees tagged</li> <li>Understorey of hazel, holly and elder</li> </ul>	



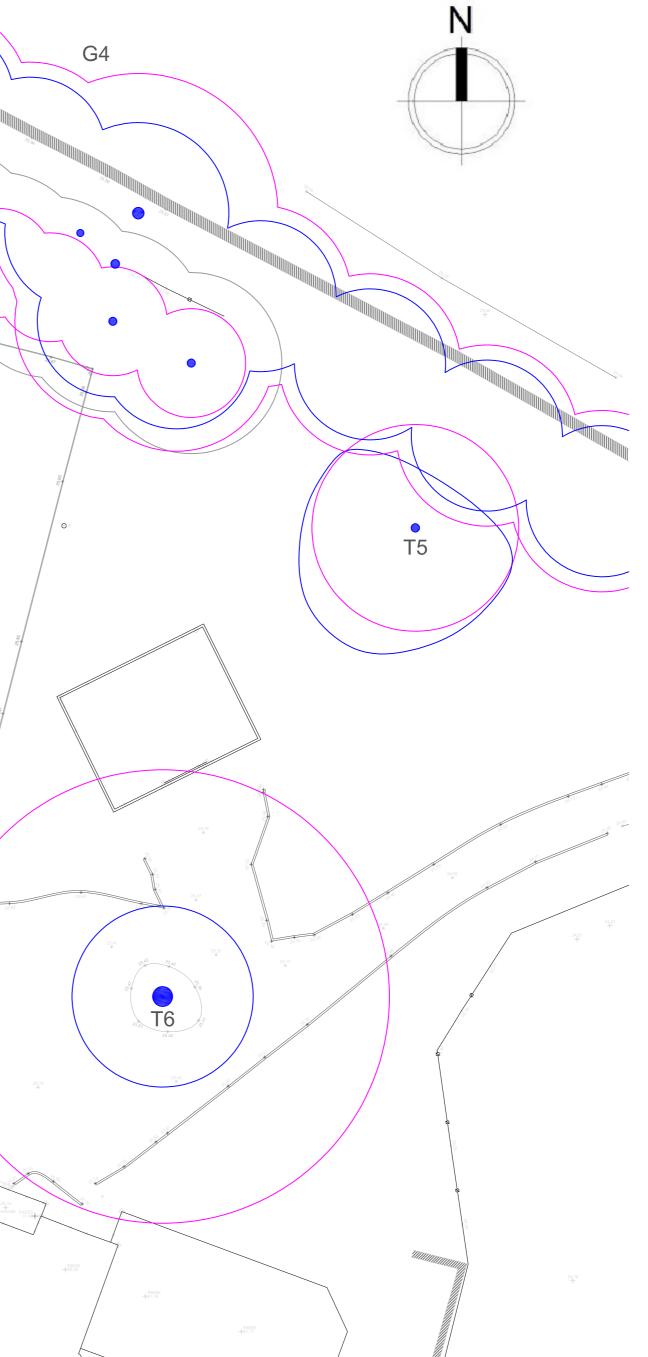
BS5837	Tree survey sch	hedule										
Site Clients	Underwood, The Mr and Mrs Slack	•	SurveyorJennie Keighley PhD MSc MArborAConditionsIntermittent light rain, light breeze				,	30 October 2023 _TC237				
ID no.	Species Latin name	Stem diameter (mm)	Age	Height (m)#	Crown spread (m)	Crown clearance (m)	Structural condition Physiological condition	Life expectancy (years)	Radial RPA (m)	BS5837 category	General obser	rvations
W1	Sitka spruce Picea sitchensis	≈ 300	Early- mature	≤ 20	N 3 E 3 S 3 W 3	≥ 2	Good Good	40+	3.6	В	<ul> <li>Located on neighbouri therefore not accessed</li> <li>Timber plantation with deciduous trees within</li> </ul>	d to inspect in detail occasional other





# **Tree Survey Plan**





### Category A High quality tree

Category B Moderate quality tree

Category C Low quality tree

Category U Unsuitable for retention

Root protection areas (RPAs)

#### Identification numbers:

T = individual tree G = group of trees W = woodland H = hedge

### Site:

Underwood The Hill Millom LA18 5EZ

## Clients:

Mr and Mrs Slack

Date:	October 2023
Scale:	1:250 at A2
Drawing:	LTC237-TSP
Drawn by:	JK



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