

Appendix A - Tree Survey Schedule

Date of survey: 28th July 2023

Site: Innisfree, Woodland Drive, East Horsley

Surveyor: A. Durkin

Tree No:	English name	Height	Stem diameter	Crown spread	Ground clearance	Age class	Physiological Condition	Structural condition	Remaining contribution	BS Category	RPR	RPA
T1	Lawson cypress	14m	630mm	N4m E3m S2m W3m	N5m	M	N	AV	10+	C (1)	7.6m	179.6m ²
Comments:		Unremarkable tree.										
T2	Lawson cypress	14m	2 stems @ 300mm	N1m E3m S4m W3m	N2.5m	M	N	P	10+	C (1)	5.1m	81.4m ²
Comments:		Unremarkable tree. Included union at 1m.										
G3	Lawson cypress, Lawson cypress and Lawson cypress	15m	Avg 380mm	N3m E3m S3m W3m	N5m	M	N	AV	10+	C (2)	4.6m	65.3m ²
Comments:		Unremarkable group of trees.										
T4	Red oak	19m	560mm	N6m E4m S9.5m W7m	N5m	M	S	AV	20+	B (1)	6.7m	141.9m ²
Comments:		Slightly thinning crown.										

Tree No:	English name	Height	Stem diameter	Crown spread	Ground clearance	Age class	Physiological Condition	Structural condition	Remaining contribution	BS Category	RPR	RPA
T5	Ash	27m	820mm	N7m E7m S9m W8m	E5.5m	M	N	G	40+	A (1)	9.8m	304.2m ²
Comments:		High quality tree with no obvious ash dieback symptoms.										
T6	Japanese maple	5m	120mm 40mm 50mm 120mm	N2m E3m S3m W4m	E1.5m	M	N	AV	20+	B (1)	2.2m	14.9m ²
Comments:		Attractive ornamental tree.										
T7	Hornbeam	17m	510mm	N4m E5m S6m W5m	N4m	M	N	AV	20+	B (1)	6.1m	117.7m ²
Comments:		Slight sweep to south.										
T8	Hornbeam	17m	570mm	N3.5m E4m S8m W6m	S2.5m	M	N	AV	20+	B (1)	6.8m	147.0m ²
Comments:		Slight sweep south towards house. Some decay at historic pruning sites.										
T9	Hornbeam	17m	570mm	N8m E5.5m S6m W6m	S4m	M	N	P	10+	C (1)	6.8m	147.0m ²
Comments:		Multiple large pruning wounds with associated decay, likely forming a column of decay within the trunk; decay evaluation inspection advised.										
T10	English oak	22m	720mm	N7m E4m S4.5m W6m	S2m	M	N	AV	40+	A (1)	8.6m	234.5m ²
Comments:		High quality tree. RPA constrained by lake.										

Tree No:	English name	Height	Stem diameter	Crown spread	Ground clearance	Age class	Physiological Condition	Structural condition	Remaining contribution	BS Category	RPR	RPA
T11	Scots pine	20m	340mm	N2m E0m S1m W7m	W10m	M	N	P	10+	C (1)	4.1m	52.3m ²
Comments:		Heavy lean over the lake. Potential for root plate failure if soil cohesion is lost during wet windy weather.										
G12	Scots pine, English oak, English oak, English oak, Lawson cypress, Lawson cypress, Lawson cypress and Lawson cypress	21m	Max 850mm	N4m E4m S4m W4m	N5m	LM	N	AV	40+	A (2)	10.2m	326.9m ²
Comments:		Group of mature trees including high quality oak trees, interspersed with understorey of laurel.										
T13	Evergreen magnolia	3m	170mm 160mm 150mm	N1m E2m S4m W3m	N1.5m	M	N	AV	20+	B (1)	3.3m	34.8m ²
Comments:		Attractive tree. Trunk swept to south.										
T14	Weeping willow	18.3m	930mm	N5m E7m S9m W8m	S2m	LM	N	AV	20+	B (1)	11.2m	391.3m ²
Comments:		Large wound on NW side at 3m with deep decay pocket.										
T15	Hornbeam	12m	660mm	N6.6m E5m S4m W5m	E6m	LM	N	P	10+	C (1)	7.9m	197.1m ²

Tree No:	English name	Height	Stem diameter	Crown spread	Ground clearance	Age class	Physiological Condition	Structural condition	Remaining contribution	BS Category	RPR	RPA
Comments:		Topped at 5m. Significant decay in stem at 1m on east side. Leaning over outdoor kitchen.										
T16	Hornbeam	16m	650mm	N4m E6m S5m W4m	E6m	LM	S	P	10+	C (1)	7.8m	191.1m ²
Comments:		Thinning foliage. Multiple decay sites. Extensive insect holes on south side.										
T17	Weeping willow	8m	330mm	N4m E5m S5m W5m	N1m	EM	N	G	40+	A (1)	4.0m	49.3m ²
Comments:		High quality tree.										
T18	Turkey oak	12m	190mm 280mm	N2m E3m S3m W3m	S1m	EM	N	AV	20+	B (1)	4.1m	51.8m ²
Comments:		Bifurcates at 1.5m with tight fork.										
T19	Weeping willow	19m	980mm	N3.8m E4.8m S8.2m W6.6m	N1.5m	LM	N	G	40+	A (1)	11.8m	434.5m ²
Comments:		High quality tree.										
T20	False acacia	18m	700mm	N8m E7m S7m W9m	N1.8m	M	N	AV	20+	B (1)	8.4m	221.7m ²
Comments:		Some thinning of foliage and minor dieback.										
T21	Norway maple 'Crimson King'	15m	550mm	N6m E6m S6m W6m	N1.5m	M	N	G	40+	A (1)	6.6m	136.8m ²
Comments:												

Tree No:	English name	Height	Stem diameter	Crown spread	Ground clearance	Age class	Physiological Condition	Structural condition	Remaining contribution	BS Category	RPR	RPA
G22	Sweet gum (x3), Sycamore and Horse chestnut	15m	Avg 350mm	N4m E4m S4m W4m	N2m	M	N	G	40+	A (2)	4.2m	55.4m ²
Comments:												
T23	Cedar of Lebanon	15m	570mm	N7m E6m S6m W6m	W2m	M	S	AV	20+	B (1)	6.8m	147.0m ²
Comments:		Thinning crown.										
G24	Silver maple, False acacia, Field maple, Ash, Holly, Plum and English oak	19m	Max 500mm	N6m E6m S6m W6m	N3m	M	N	AV	40+	A (2)	6.0m	113.1m ²
Comments:		Large group of mature trees, forming backdrop to rose garden.										

Notes	
Height/Crown Spread (N,E,S,W) / Dimensions	Measured in metres (with laser or estimated (*) when line of sight is poor)
Stem diameter	Measured at 1.5m above ground level and used to calculate the root protection area (RPA). For multi-stemmed trees a cross-sectional area is calculated from the sum of the diameter of each stem to give a notional overall stem diameter. Estimated where access is not possible (*).
Ground clearance	The height in metres of the first significant branch, and direction (NESW) if considered relevant.
Age class	<p>Y - Newly planted/Young - <i>Not fully established and capable of being transplanted or easily replaced</i></p> <p>SM - Semi-mature – <i>In first quarter of usual life expectancy for species (LES)</i></p> <p>EM - Early-mature - <i>In first third of LES</i></p> <p>M - Mature - <i>Approximately half LES</i></p> <p>LM - Late-mature - <i>In last third of LES</i></p> <p>VA - Veteran/ancient – <i>Over usual LES</i></p>
Physiological Condition (PC)	(N) Normal / (S) Stressed / (P) Poor (leaf size, colour and density; shoot extension growth and the volume of deadwood present)
Structural Condition (SC)	(G) Good (no major defects observed / (AV) Average (minor or remediable defects) / (P) Poor (irremediable defects)
Remaining contribution	Remaining contribution in years in the context of their health or location, in the context of current land use.
BS Category	British Standard 5837:2012 Table 1 category. Refers to tree/group quality and value: A – High, B – Moderate, C – Low, U – Trees that cannot realistically be retained in the context of the current land use for longer than ten years. Sub category (1, 2, 3) is given if considered appropriate.
Root Protection Radius (RPR)	A minimum radius from the tree trunk that should ideally be left undisturbed during the development process. Derived from a 12 x multiple of the stem diameter. Used to calculate the Root Protection Area (RPA). Taken from Table D.1 of BS5837.
Root Protection Area (RPA)	A minimum area around the tree trunk that should ideally be left undisturbed during the development process. Equivalent to a circle with a radius 12 x multiple of the stem diameter. Taken from Table D.1 of BS5837.
Deadwood	Minor - dead wood with a stem diameter 0-25mm; Moderate 25-50mm; Major 50+mm