

1 Lyndhurst Road, London, NW3 5PX

Arboricultural Report, Tree Constraints Plan & Impact Assessment

Surveyor: John Crawshaw M.Arbor.A.

Survey Date: Wednesday, 8 September 2021

Report Date: Monday, 27 September 2021

Contents

1. Introduction	3
1.1. Brief	3
1.2. Qualifications and experience	3
1.3. Documents and information provided	3
1.4. Scope of this report	3
1.5. Limitations of use and copyright	3
2. Site Visit/Observations & Data Collection	3
2.1. Site visit	3
2.2. Site description	3
2.3 Identification and location of the trees	4
2.4. Tree Survey Schedule	5
2.4.1. Glossary of Terms	5
2.4.2. Statutory Protection	6
2.4.3. Tree Survey Methodology	7
3. Photographs	10
4. Tree Constraints Plan	11
5. Tree Impact Plan	12
6. Arboricultural Impact Assessment	13
6.1 Proposals/Impact	13
7. Conclusions	14
Appendix 1. List of Tree Names	15

1. Introduction

1.1. Brief

I am instructed to inspect the trees at **1 Lyndhurst Road, London, NW3 5PX** to provide an arboricultural report and impact assessment for the trees located within and adjacent to the site, as shown on the Tree Constraints Plan enclosed.

1.2. Qualifications and experience

I have based this report on my site observations and the provided information, and I have come to conclusions in the light of my experience and qualifications. RFS Cert Arb. M. Arbor A

1.3. Documents and information provided

I was provided with base & proposal plans.

1.4. Scope of this report

This report is only concerned with the trees shown on the enclosed plan. Trees with a diameter of less than 75mm and shrub species have not been surveyed in line with BS5837 2012.

1.5. Limitations of use and copyright

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2. Site Visit/Observations & Data Collection

2.1. Site visit

I carried out the tree survey on the **Wednesday, 8 September 2021** my observations were from ground level only.

2.2. Site description

The survey site comprises a residential dwelling with rear garden containing a variety of trees and shrubs. Other trees are located within the adjacent properties.



2.3 Identification and location of the trees

The trees have been identified and are listed within the Tree Survey Schedule. I have plotted the locations of the trees on the plan included. All the relevant information on it is contained within this report and the provided documents. Only the significant trees are included in this report; trees with a diameter of less than 75mm (BS5837 2012) are not included unless their position was felt to be significant. All trees have been allocated a classification. The classification cascade chart can be found below.

and Construction")		Identification on Plan	d due to collapse, for whatever reason, cline. y), or very low quality s to preserve; see 4.5.7			3. Mainly Cultural Values, Identification on Plan including Conservation	Trees, groups or woodlands of significant conservation, historical, commemorative or other value (e.g. veteran trees or value (-pasture).	Trees with clearly identifiable conservation or other cultural benefits. MID BLUE	Trees with very limited conservation or other cultural benefits.
QUALITY ASSESSMENT (from British Standard 5837:2012 "Trees in Relation to Design, demolition and Construction")			 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 U category trees (i.e. 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 significant, immediate and irreversible overall decline. Trees suppressing adjacent trees of better quality. NOTE: Category U trees can have existing or potential conservation value which it might be desirable to preserve; see 4.5.7 			2. Mainly Landscape Qualities 3. N	Trees, groups or woodlands of particular visual Tre importance as arboricultural and/or landscape con features con	Trees present in numbers, usually growing as groups Tre or woodlands, such that they attract a higher iden 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 present in groups or woodlands, but without Tre this conferring on them significantly greater collective landscape value; and/or trees offering low cult
CASCADE CHART FOR TREE QUALITY ASSESSMENT (fro		Criteria			Criteria – Subcategories	1. Mainly Arboricultural Qualities	Trees that are particularly good examples of their species, especially if rare or unusual, or essential components of groups, or of formal or semi-formal arboricultural features (e.g. the dominant and/or principal trees within an avenue).	Trees that might be included in category A, but are downgraded because of impaired condition (e.g. presence of unsympathetic past management and storm damage) such that they are unlikely to be suitable for retention for beyond 40 years; or lacking the merit for Category A	Unremarkable trees of very limited merit or such impaired condition that they do not qualify in higher categories
с С	TREES FOR REMOVAL	Category and Definition	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 TO BE CONSIDERED FOR RETENTION		Category and Definition	Category A Those of high quality with a estimated remaining life expectancy of at least 40 years	Category B Those of moderate quality with a estimated remaining life expectancy of at least 20 years	Category C Those of low quality with an estimated life expectancy of

4

2.4. Tree Survey Schedule

Ref Species	H/T	Stems	Dia	Can	Canopy			First	Crown	Age	Yrs	Cat	Observations	Recommendations	RPA (r)	RPA (a)	TPO/COM	
	species		125	mm	N	E	5	w	Branch	н/т								
Т1	Silver Birch	18	S	500	4	5	4	4	6W	6	Mature	30	В	Good overall condition	None	6	113.1	CON
T2	Acer	4	м	150	0.5	1	2	1.5	1W	1	Early Mature	40	c	Good overall condition	None	1.5	7.1	CON
тз	Silver Birch	16	5	400	2	3	4	4	4N	3	Mature	30	В	Good overall condition. Minor decay within main stem. Located in neighbouring property	None	4.8	72.4	CON
T4	Beech	18	S	850	5	5	5	5	45	5	Mature	40+	A	Good overall condition. Located within neighbouring property	None	10.2	326.9	CON
T5	Yew	4	S	100	1	1.5	1.5	1.5	2W	2	Young	40+	С	Good overall condition	None	1.2	4.5	CON
т6	Conifer	5	S	150	1	1	1	1	2N	1.5	Young	40+	с	Good overall condition	None	1.8	10.2	CON
т7	Ceanothus	3	S	150	1.5	1	1.5	1	2N	1.5	Young	30	с	Good overall condition, minor decay in base	Monitor condition	1.8	10.2	CON
T8	Silver Birch	6	5	125	1.5	1.5	1.5	1.5	2N	1.5	Young	40	B	Good overall condition, within neighbouring property	None	1.5	7.06858	3 CON
T9	Silver Birch	5	S	100	1	1.5	1	1	2N	1.5	Young	40	в	Good overall condition, within neighbouring property	None	1.2	4,52389	3 CON
T10	Silver Birch	5	5	75	1	1	1	1	2E	1.5	Young	40	в	Good overall condition, within neighbouring property	None	0.9	2.54469	C CON
T11	Silver Birch	5	S	75	1	1	1	1	2N	1.5	Young	40	в	Good overall condition, within neighbouring property	None	0.9	2.54469	C CON
T12	Silver Birch	5	S	100	1	1	1	1	25	1.5	Young	40	B	Good overall condition, within neighbouring property	None	1.2	4.52389	3 CON
Г13	Bay	3	м	250	1	1	1	1	2N	2	Early Mature	30	с	Good overall quality	None	2.5	19.6	CON
Г14	Lime	9	S	600	1.5	1.5	1.5	1.5	ЗN	3	Early Mature	40+	в	Street tree under pollard management	Maintain management regime	7.2	162.9	CON
T15	Lime	10	S	750	2	2	2	2	ЗE	3	Early Mature	40+	в	Street tree under pollard management	Maintain management regime	9	254.5	CON

2.4.1. Glossary of Terms

ID: Identification on position plan Name: Common species name H/T: Current tree height Stems: Single or Multiple stems Dia: Diameter of stem at 1.5m above ground (mm) Canopy: Canopy measurements N,E,S & W Crown Height: Height of lowest part of crown First Branch: Height and direction of first branch Age: Current age Yrs: Approximate years of life remaining Cat: Category of importance in line with current British Standards **Obs:** Observations **Recs:** Recommendations RPA (r): Root protection area (approximate area of roots Radius of circle) RPA (a): Root protection area (approximate area of roots Area of circle) TPO/CON: Statutory Protection





2.4.2. Statutory Protection

A thorough investigation into statutory tree protection at Camden Council revealed that the site lies within a Conservation Area. All trees and hedges are protected within this area.







2.4.3. Tree Survey Methodology

Trees, tree groups and woodlands have been considered following evaluation into one of four categories (U, A, B, C) based on tree quality as outlined in British Standard 5837 (2012) which has been followed. Categorisation of trees, following the British Standard, gives an indication as to the trees' importance in relation to the site and the local landscape and also, the overall value and quality of the existing tree stock on site. This allows for informed decisions to be made concerning which trees should be removed or retained, should development occur.

7

For a tree to qualify under any given category it should fall within the scope of that category's definition. In the categories A, B, C which collectively deal with trees that should be a material consideration in the development process, there are three sub-categories which are intended to reflect arboricultural, landscape and cultural values respectively. Category U trees are those which would be lost in the short-term for reasons connected with their poor physiological or structural condition. They are, for this reason, not usually considered in the planning process.

In assigning trees to the A, B or C categories the presence of any serious disease or tree related hazards are taken into account. If the disease is considered fatal and / or irremediable, or likely to require sanitation for the protection of other trees it may be categorised as U, even if they are otherwise of considerable value.

Category (A) – trees whose retention is most desirable and is of high quality and value. These trees are considered to be in such a condition as to be able to make a lasting contribution (a minimum of 40 years) and may comprise:

- Trees which are particularly good examples of their species especially rare or unusual, or essential components of groups or of formal or semi-formal arboricultural features (e.g. the dominant and/or principal trees within an avenue);
- Trees, groups or woodlands which provide a definite screening or softening effect to the locality in relation to views into or out of the site, or those of particular visual importance (e.g. avenues or other arboricultural features assessed as groups); and
- Trees or groups or woodlands of significant conservation, historical, commemorative or other value (e.g. Veteran or wood-pasture trees).

Category (B) – are trees whose retention is considered desirable and are of moderate quality and value. These trees are considered to be in such a condition as to make a significant contribution (a minimum of 20 years) and may comprise:

- Trees that might be included in the high category but because of their numbers or slightly impaired condition (e.g. presence of remediable defects including unsympathetic past management and minor storm damage), are downgraded in favour of the best individuals;
- Trees present in numbers such that they form distinct landscape features and attract a higher collective rating than they would as individuals. Individually these trees are not essential components of formal or semi-formal arboricultural features, or trees situated mainly internally to the site and have little visual impact beyond the site; and
- Trees with clearly identifiable conservation or other cultural benefits.

Category (C) – are trees that could be removed to facilitate the development and are considered to be of low quality and value. These trees are in an adequate condition to remain until new planting could be established (a minimum of ten years) or are young trees with a stem diameter below 150mm and may comprise:

• Trees not qualifying in higher categories;

- Trees present in groups or woodlands, but without this conferring on them significantly greater landscape value and or trees offering low or only temporary screening benefit; and
- Trees with very limited conservation or other cultural benefits.

Category (U) – trees for removal are those trees in such a condition that any existing value would be lost within 10 years and which should in the current context be removed for reasons of sound arboricultural management. Trees within this category are:

- 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;
- Trees that are dead or are showing signs of significant, immediate or irreversible overall decline; and
- Trees infected with pathogens of significance to the health and or/safety of other trees nearby trees or very low quality trees suppressing adjacent trees of better quality.

Species has been recorded by common name and recorded as such in the Arboricultural Data schedule. Height has been estimated in meter and stem diameters have been measured at 1.5 metres above ground level and recorded in millimetres. Crown spreads have been measured in half meters and taken to the point of greatest spread unless the crown has presented a pronounced asymmetrical form and therefore measurements have been taken for the four cardinal points. The measurements have always been considered in the following sequence, North, East, South, and West, and therefore appear as such within the Tree Survey Schedule.

In the assessment particular consideration has been given to the following when deciding the most appropriate British Standard Category and Sub-Category allocation:

- a. the health, vigour and condition of each tree;
- b. the presence of any structural defects in each tree and its life expectancy;
- **C.** the size and form of each tree and its suitability within the context of the proposed scheme; and
- d. the location of each tree relative to existing site features, e.g. its value as a screen or as a skyline feature.

Age class is assessed according to the age class categories referred to in BS 5837.

- 1. Y: Young trees up to five years of age;
- 2. EM: Early mature, trees 1/3 2/3 life expectancy;
- 3. M: Mature trees over 2/3 life expectancy;
- 4. OM: Over mature declining or moribund trees of low vigour; and
- 5. V: Veteran Characteristics have been noted where a tree exhibits certain characteristic features of veteran trees.

Major defects or diseases and relevant observations have also been recorded under Structural Condition. The assessment for structural condition has included inspection of the following defects:

- 1. The presence of fungal fruiting bodies around the base of the tree or on the stem, as they could possibly indicate the presence of possible internal decay;
- 2. Soil cracks and any heaving of the soil around the base indicating possible root plate movement;



- 3. Any abrupt bends in branches and limbs resulting from past pruning, as it may be an indication of internal weakness and decay;
- 4. Tight or weak 'V' shaped unions and co-dominant stems;
- Hazard beam formations and other such biomechanical related defects (as described by Claus Mattheck, Body Language of Trees HMSO Research for Amenity Trees No. 4 1994);
- 6. Cavities as a result of limb losses or previous pruning;
- 7. Broken branches;
- 8. Storm damage;
- 9. Canker formations;
- 10. Loose bark;
- 11. Damage to roots;
- 12. Basal, stem or branch / limb cavities;
- 13. Crown die-back;
- 14. Abnormal foliage size and colour;
- 15. Any changes to the timing of normal leaf flush and leaf fall patterns; and
- 16. Other pathological diseases affecting any part of the tree.
- 17. Major defects or diseases and relevant observations have also been recorded. Dead wood has been defined as the following:
- 18. Minor dead wood 5cm to 10cm in diameter; and
- 19. Major dead wood 10cm in diameter and above.

The survey was completed from ground level only, aerial inspection of trees was not undertaken. Investigations as to the internal condition of a tree have not been undertaken. Further investigations of this type can be made and have been recommended where it has been considered necessary, within the report although these investigations are beyond the scope of this report.

Evaluation of the trees condition given within this assessment applies to the date of survey and cannot be assumed to remain unchanged. It may be necessary to review these within 12 months, in accordance with sound arboricultural practice.

The individual positions of trees and groups of trees recorded in the Tree Survey Schedule. have been shown on the Tree Constraints Plan. The positions of trees are based on a topographical / land survey supplied by the development and client in dwg. format for the purpose of plotting the trees.

The Root Protection Areas (RPA) to be required by the individual and groups of trees are indicated by the Tree Constraints element of the above plans. The Root Protection Areas are formulated as described below.

Below ground constraints to future development is represented by the area surrounding the tree that contains sufficient rooting volume to ensure survival of the tree, which need protecting in order for the tree to be incorporated into any future scheme, without adverse harm to the tree or structural integrity of buildings. This is referred to as the RPA and is shown as a circle of a given radius.

The circle may be modified in shape to maintain a similar total area depending on the presence of surrounding obstacles.



3. Photographs









T1 S Birch

Existing lower garden level T's 2 & 3

T's 3 & 4



T's 5 7 6



T's 8 - 12







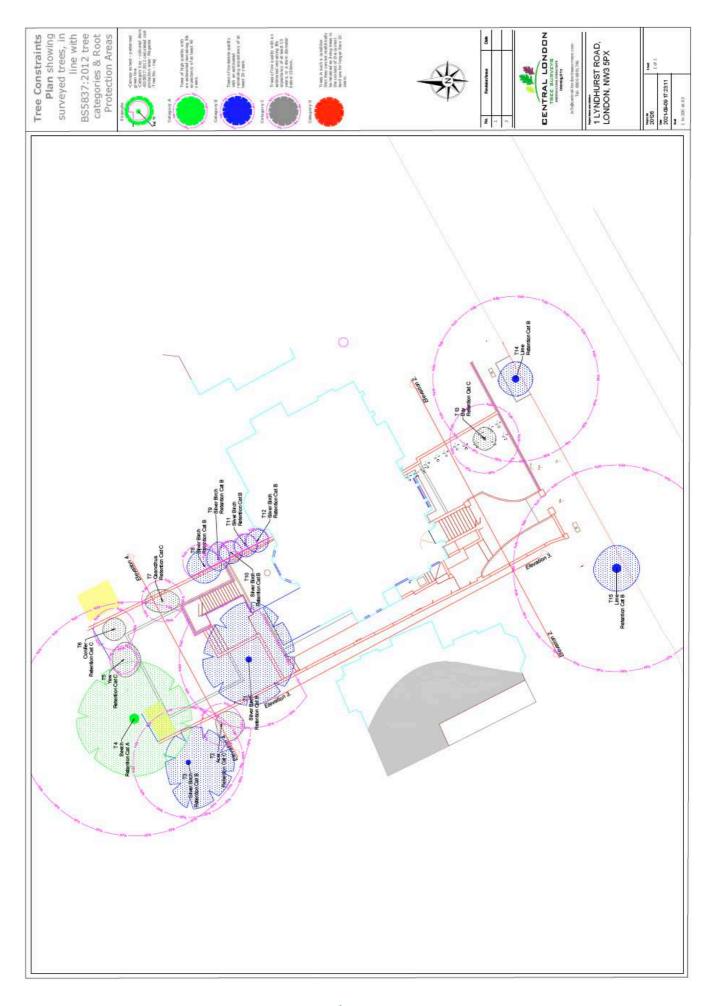


T15



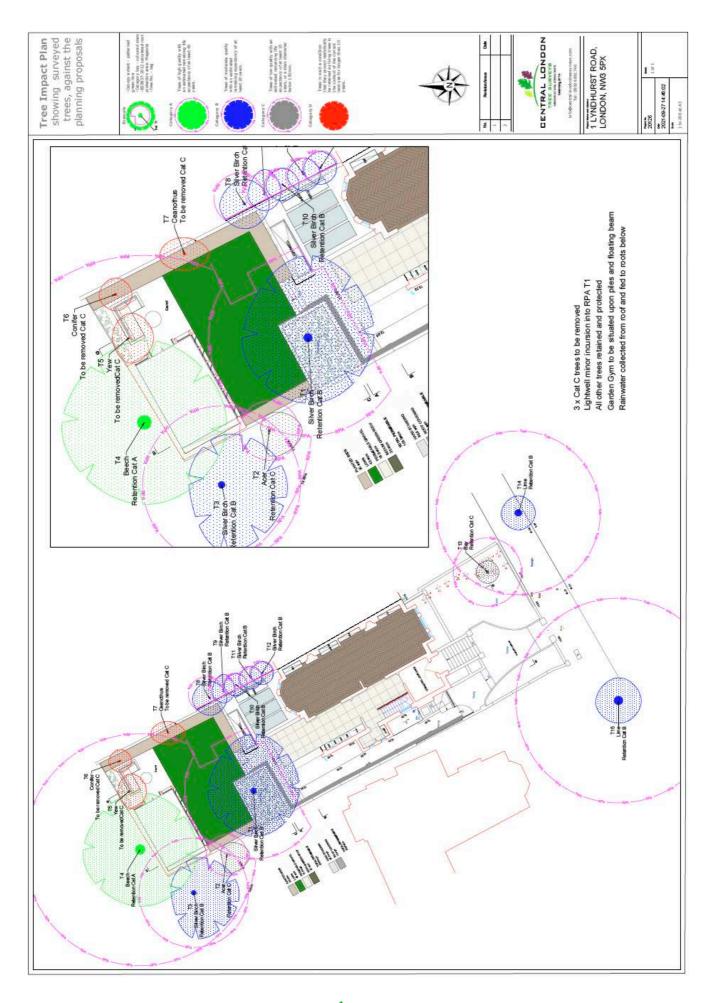
4. Tree Constraints Plan

Plan below not to scale as PDF. Please refer to original drawing for scaling



5. Tree Impact Plan

Plan below not to scale as PDF. Please refer to original drawing for scaling.

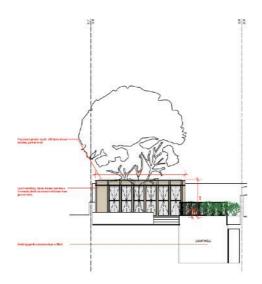


6. Arboricultural Impact Assessment

6.1 Proposals/Impact

The proposals are set out below & on the Tree Impact Plan TIP.





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7. Conclusions

4 x Cat C trees to be removed.

All other trees will be retained and protected.

The garden building can be accommodated in the proposed position on mini screw piles located carefully within the RPA. There is an existing wooden structure in this location. Due to the increase in size, water runoff from the room will be gathered and fed into the soil below for tree roots.

The works to the main house will require a minor incursion into the RPA of T1. This report has slightly overestimated the extents of the RPA, given the existing constraints. It is thought that the proposed works will pose no significant impact upon the retained trees

Protection measures should be put in place to safeguard the retained trees during construction phases.

Reference should be made to the Wildlife and Countryside Act (1981), protection of bird and bat species, European Protected Species legislation and local planning policy.



Appendix 1. List of Tree Names

Appendix 1. List of fre	Fraxinus excelsior
Aspen	<u>Populus tremula</u>
Atlas cedar	<u>Cedrus atlantica</u>
Austrian pine	<u>Pinus nigra</u>
Bay willow	<u>Salix pentandra</u>
Beech	Fagus sylvatica
Bird cherry	<u>Prunus padus</u>
Black cottonwood	<u>Populus trichocarpa</u>
Black poplar	Populus nigra
Black walnut	<u>Juglans nigra</u>
Box	Buxus sempervirens
Caucasian fir	Abies nordmanniana
Cedar of Lebanon	<u>Cedrus libani</u>
Coast redwood	Sequoia sempervirens
Common alder	<u>Alnus glutinosa</u>
Common juniper	Juniperus communis
Common lime	<u>Tilia x vulgaris</u>
Common silver fir	<u>Abies alba</u>
Common walnut	<u>Juglans regia</u>
Corsican pine	<u>Pinus nigra</u>
Crab apple	<u>Malus sylvestris</u>
Crack willow	<u>Salix fragilis</u>
Cricket-bat willow	<u>Salix alba,</u> var caerulea
Deodar cedar	<u>Cedrus deodara</u>
Douglas fir	<u>Pseudotsuga menziesii</u>
Downy birch	<u>Betula pubescens</u>
English elm	<u>Ulmus procera</u>
Eucalypts	<u>Eucalyptus</u> species
European larch	Larix decidua
Fig	<u>Ficus carica</u>
Field maple	<u>Acer campestre</u>
Giant fir	<u>Abies grandis</u>
Grey alder	<u>Alnus glutinosa</u>
Grey poplar	<u>Populus x canescens</u>
Grey poplar Hawthorn	Populus x canescens Crataegus monogyna
Hawthorn	Crataegus monogyna
Hawthorn Hazel	Crataegus monogyna Corylus avellana
Hawthorn Hazel Holly	Crataegus monogyna Corylus avellana Ilex aquifolium
Hawthorn Hazel Holly Holm oak	Crataegus monogyna Corylus avellana Ilex aquifolium Quercus ilex
Hawthorn Hazel Holly Holm oak Honey Locust	Crataegus monogyna Corylus avellana Ilex aquifolium Quercus ilex Gleditsia triacanthos
Hawthorn Hazel Holly Holm oak Honey Locust Hornbeam	Crataegus monogyna Corylus avellana Ilex aquifolium Quercus ilex Gleditsia triacanthos Carpinus betulus
Hawthorn Hazel Holly Holm oak Honey Locust Hornbeam Horse chestnut	Crataegus monogyna Corylus avellana Ilex aquifolium Quercus ilex Gleditsia triacanthos Carpinus betulus Aesculus hippocastanum
Hawthorn Hazel Holly Holm oak Honey Locust Hornbeam Horse chestnut Italian alder	Crataegus monogyna Corylus avellana Ilex aquifolium Quercus ilex Gleditsia triacanthos Carpinus betulus Aesculus hippocastanum Alnus cordata
Hawthorn Hazel Holly Holm oak Honey Locust Hornbeam Horse chestnut Italian alder Japanese larch	Crataegus monogyna Corylus avellana Ilex aquifolium Quercus ilex Gleditsia triacanthos Carpinus betulus Aesculus hippocastanum Alnus cordata Larix kaempferi

Lodgepole pine	<u>Pinus contorta</u>
Lombardy poplar	<u>Populus nigra</u> var. italica
London plane	<u>Platanus x hispanica</u>
Maritime pine	<u>Pinus pinaster</u>
Midland thorn	<u>Crataegus laevigata</u>
Monkey puzzle	<u>Araucaria araucana</u>
Monterey cypress	Cupressus macrocarpa
Monterey pine	<u>Pinus radiata</u>
Noble fir	<u>Abies procera</u>
Norway maple	Acer platanoides
Norway spruce	<u>Picea abies</u>
Oriental plane	<u>Platanus orientalis</u>
Pedunculate oak	<u>Quercus robur</u>
Red alder	<u>Alnus rubra</u>
Red oak	<u>Quercus rubra</u>
Robusta poplar	<u>Populus x robusta</u>
Rowan	<u>Sorbus aucuparia</u>
Sallow (Goat willow)	<u>Salix caprea</u>
Scots pine	<u>Pinus sylvestris</u>
Serotina poplar	<u>Populus serotina</u>
Sessile oak	<u>Quercus petraea</u>
Silver birch	<u>Betula pendula</u>
Sitka spruce	<u>Picea sitchensis</u>
Small-leaved lime	<u>Tilia cordata</u>
Smooth-leaved elm	<u>Ulmus carpinifolia</u>
Snakebark Maple	<u>Acer capillipes</u>
Southern beech	<u>Nothofagus antarctica</u>
Swamp cypress	<u>Taxodium distichum</u>
Swedish whitebeam	<u>Sorbus intermedia</u>
Sweet chestnut	<u>Castanea sativa</u>
Sycamore	<u>Acer pseudoplatanus</u>
Tree of Heaven	Ailanthus altissima
Turkey oak	<u>Quercus cerris</u>
Wellingtonia	<u>Sequoiadendron giganteum</u>
Western hemlock	<u>Tsuga heterophylla</u>
Western red cedar	<u>Thuja plicata</u>
White poplar	<u>Populus alba</u>
White willow	<u>Salix alba</u>
Whitebeam	<u>Sorbus aria</u>
Wild cherry (Gean)	<u>Prunus avium</u>
Wild service tree	<u>Sorbus torminalis</u>
Wych elm	<u>Ulmus glabra</u>
Yew	<u>Taxus baccata</u>





0800 6891746 07734328633 info@central-londontreesurveys.com





