Ground Control
PROFESSIONAL SERVICES

Ecology
Arboriculture
GIS and Mapping
Landscape Architecture

Tree Condition Survey Report (VTA)

Site: Chelsfield Park Hospital, Bucks Cross Rd, Chelsfield, Orpington, BR6 7RG

Client: BMI – Circle Health Group

Document Control Sheet

Title	Tree Report: Tree Condition Report (VTA)			
Client	BMI – Circle Health Group			
Site Name	Chelsfield Park Hospital, Bucks Cross Road, Chelsfield, Orpington, BR6 7RG			
GC Document Reference	J230813			
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Issue Status	***Issue***	***Date***	***Status***	***Revision***
	1	16/08/2023	Final	-
Disclaimer	*The recommendations contained in this report represent Ground Control's professional opinions, in exercising the duty of care required of a suitably experienced and qualified Arboricultural Surveyor/ Arboricultural Consultant.* *All data recorded and recommendations made are based on observable factors present at the time of inspection. Inspections consist of a ground based visual inspection only. Where access to conduct a full inspection is not possible due to reasons such as vegetation, topography, fencing or other situations that the surveyor feels are unsafe, the Arboriculturist will make appropriate notes within the survey schedule.* *As dynamic living organisms, trees can change over time. Therefore, the observations and recommendations provided in this report should be considered valid for a maximum period of 12 months, unless specified otherwise by the Arboriculturist. Additionally, it is advisable to inspect trees after a significant, strong wind event to ensure their continued health and safety.* *The report has been prepared by Ground Control Ltd for the sole and exclusive use of the client and for the specific purpose for which Ground Control has been commissioned.* *Ground Control accepts no responsibility or liability for any use that is made of this document other than by the client for the purposes for which it was originally commissioned and prepared.* *Use of the Report by any other person is unauthorised and such use is at the sole risk of the user.*			

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1.0 Executive Summary

1.1 The tree survey was undertaken on the 15th August 2023 by Dave Bush, Ground Control's Arboricultural Surveyor at Chelsfield Park Hospital, Bucks Cross Rd, Orpington, BR6 7RG ; hereafter referred to as the 'site'.

1.2 A summary of the tree work actions required from this survey alongside a summary of the site's tree stock species composition is included below. Detailed information of required tree works for this site can be found within section 4.0 of this report.

Inspection Records:		**70**
Action Records:		**27**
Action Priorities *The table provides a collated summary of the recommended tree work actions in relation to the 'Action Priority' timeframes.*	IMMEDIATE/ URGENT	**0**
	Within 1 month	7
	Within 1 - 3 months	19
	Within 3 - 6 months	**0**
	Within 6 - 12 months	**1**
	Within 12 - 18 months	**0**

Table 1 – Tree Works Actions Summary Table

Diagram 1 – Species Composition Across the Site

Diagram 2 – Tree Age Class Across the Site

2.0 Introduction

2.1 Ground Control Ltd were instructed by BMI – Circle Health Group to undertake a Visual Tree Assessment (VTA) of all trees within the boundaries of the site.

2.2 The owner of land on which a tree or trees stand has a legal duty of care under the Occupiers' Liability Act 1957 and generally under the Health and Safety at Work Act 1974, to ensure people using the site (whether invited or not) are not exposed to tree related hazards that may present a risk to their health and safety or their property. This duty requires tree owners to take reasonably practicable steps to avoid foreseeable risk, including inspections of trees and the implementation of works where deemed necessary.

2.3 The purpose of this report is to assess the current condition of trees and significant vegetation within the site and to make recommendations for works based upon the risks of causing harm or damage to persons, property or equipment located at the site address.

3.0 Tree Survey & Methodology

3.1 The tree survey was undertaken on the 15th August 2023 by Dave Bush, LANTRA PTI, Arboricultural Surveyor for Ground Control.

3.2 The trees have been assessed from ground level only using the Visual Tree Assessment methodology and assessed with regards to:

- Structural Condition
- Current H&S Implications
- Recommendations for Remedial Works
- Priority for Works & Indicative Cost Implications

3.3 A total of 70 records including 57 tree(s) and 13 group(s) have been inspected. The detail of these inspections can be found within the tree survey schedules in Appendix A and their locations shown on the tree survey plans enclosed within Appendix B.

3.4 Tree data inventory records species, height banding, stem diameter banding, age class, condition, structural defects, and recommendations for remedial work. Where possible the number of trees and species found within groups and woodland areas have been recorded. Approximate numbers have been used where access was not possible.

3.5 Trees have been tagged as part of this survey works only where the surveyor has deemed necessary to aid location.

3.6 Recommendations for remedial work are set out within the following Action Priority Class categorisation & time limits (Table 2)

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Work Action Priority Class Categorisation		
Work Priority	**Time Limits** *(As detailed on survey schedule)*	**Details**
URGENT	**IMMEDIATE**	Separate to this report all urgent work (immediate) has been phoned / emailed through immediately to the client
HIGH	**Within 3 Months**	Covers trees within target distance of High-Risk Zone likely to cause injury, death, or substantial damage.
MEDIUM	**Within 6 Months**	Covers trees within target distance of High-Risk Zone likely to cause an inconvenience such as pruning to clear buildings or phone lines. Covers trees within target distance of Medium Risk Zone likely to cause injury or damage.
LOW	**Within 12 Months**	Covers trees within target distance of High or Medium Risk Zones with regards to tree works that are necessary to be programmed to promote the future health and well-being of tree stock, such as re-reductions whereby higher categories are not necessary.

Table 2 – Work Action Priority Class Classifications

3.7 The location of trees have been categorised as High (Red), Medium (Orange) or Low (Green). This is determined by accessibility to the general public and frequency of use. If the client has not provided risk zone maps specific to each site, then categorisation is based solely on the Arboricultural Surveyor's discretion from observations gained during the site visit only. Guidelines for this subject come from Common Sense Risk Management of Trees - National Tree Safety Group (NTSG). Due consideration has been given to the principles set out below:

- Public impact - Numbers of public using site.
- Site usage - Location of roads, footpaths, buildings
- Business Risk - Risk of damage to property

Site Risk Zone Classifications	
HIGH	Adjacent property including gardens, parks or schools, public roads and footpaths, car parks. Buildings, infrastructure, or plant. Any internal access roads or footpaths leading to buildings or infrastructure used on a regular basis.
MEDIUM	Internal access roads and footpaths used on a limited basis, open grassland.
LOW	Woodlands with limited access or fenced inaccessible areas with no surrounding targets.

Table 3 – Site Risk Zone Definitions

3.8 It is recommended that upon receipt of this report the client reviews the survey schedule and mapping to check that the survey area, risk zones/ hazard classes noted by the Arboricultural Surveyors are in line with clients' own views of that site. Ground Control cannot be held liable for any incorrect categorisation of risk/hazard zones or extent of the survey area.

4.0 Conclusions and Recommendations

Recommended Tree Works:

4.1 A total of 70 survey inspections were recorded from which a total of 27 tree work actions have been recommended. A summary of the tree work actions recommended for the site are set out in Appendix C, photographic records of these trees can be found in Appendix D.

4.2 All tree works specified within this report should be conducted in accordance with BS 3998:2010 by suitably skilled, experienced, and qualified operatives that are Arboricultural Association Approved Contractors.

4.3 Prior to the completion of any tree works the contractors should check for statutory tree protection and obtain the necessary permissions where required. This should include but not be limited to Tree Preservation Orders, Conservation Areas, and any requirements for Forestry Commission Felling Licenses where relevant.

4.4 Any works to third party trees will require written consent from the tree owner except those branches that apply to common law and overhanging branches without access into tree.

4.5 It is recommended that tree works are undertaken outside of the bird nesting season (March to September inclusive). Where works are undertaken during this period appropriate checks should be made prior to commencement by a suitably trained and competent individual.

Recommended Re-Survey:

4.6 Due to the intensity of site usage, it is recommended that trees are inspected annually, or after a significant, strong wind event or as per surveyor recommendation regarding specific trees.

Appendix A – Tree Survey Schedule

Tree Survey Schedule																	
Tree ID	Tag No	Common Name	Scientific Name	Tree Height (bands)	Stem Diameter (mm)	Life Stage	Physiological Condition	Structural Condition	Observation Comments	Root/Base Observations	Trunk Observations	Crown Observations	Pests, Pathogens & Diseases	Target	Risk Zone	Access	Ownership
1	Not tagged	Cherry species	Prunus sp.	5-10m	275	Early-mature	Fair	Fair		None Significant	Bark Wounding/Damage	Branch Rip Wound, Minor Dead Wood Under 50mm Diameter	None Observed	Road	High	Good	Client
2	Not tagged	Common hawthorn	Crataegus monogyna	5-10m	300	Mature	Fair	Fair		None Significant	Bark Wounding/Damage, Decay on Stem	Minor Dead Wood Under 50mm Diameter	None Observed	Road	High	Good	Client
3	0325	Copper beech	Fagus sylvatica f. purpurea	20+m	1000	Mature	Fair	Poor	Suspected Ganoderma colonisation x 2 Braced,	None Significant	Bark Wounding/Damage, Decay on Stem, Included Co-Dominant Stem	Minor Dead Wood Under 50mm Diameter	Fungus - Ganoderma	Building, Footpath, Road	High	Good	Client
4	Not tagged	Cherry species	Prunus sp.	0-5m	50	Young	Good	Good		None Significant	No Visible Issues or Defects	None Significant	None Observed	Footpath	High	Good	Client
5	Not tagged	Irish yew	Taxus baccata fastigiata	11-15m	350	Early-mature	Fair	Fair		None Significant	Ivy Covered Stem, Multi-Stem	Minor Dead Wood Under 50mm Diameter	None Observed	Footpath	High	Good	Client
6	Not tagged	Common laburnum	Laburnum anagyroides	11-15m	Unable to mesure	Mature	Fair	Fair		None Significant	Ivy Covered Stem, Multi-Stem	Minor Dead Wood Under 50mm Diameter, Prolific Ivy	None Observed	Footpath	High	Good	Client
7	1880	Horse chestnut	Aesculus hippocastanum	16-20m	775	Mature	Fair	Fair		None Significant	Co-dominant Stem	Asymmetrical, Branch Rip Wound, Branch/Limb Failure, Minor Dead Wood Under 50mm Diameter, Overweight Subsiding Limbs	None Observed	Footpath	High	Good	Client

Tree Survey Schedule																	
Tree ID	Tag No	Common Name	Scientific Name	Tree Height (bands)	Stem Diameter (mm)	Life Stage	Physiological Condition	Structural Condition	Observation Comments	Root/Base Observations	Trunk Observations	Crown Observations	Pests, Pathogens & Diseases	Target	Risk Zone	Access	Ownership
8	Not tagged	Rowan	Sorbus aucuparia	5-10m	200	Mature	Fair	Good		None Significant	No Visible Issues or Defects	Minor Dead Wood Under 50mm Diameter	None Observed	Road	High	Good	Client
9	Not tagged	Swedish whitebeam	Sorbus intermedia	11-15m	325	Mature	Fair	Good		None Significant	Bark Wounding/Damage	Minor Dead Wood Under 50mm Diameter	None Observed	Open space, Road	High	Good	Client
10	Not tagged	Cherry species	Prunus sp.	5-10m	400	Mature	Fair	Fair		None Significant	Bark Wounding/Damage	Minor Dead Wood Under 50mm Diameter	None Observed	Open space, Road	High	Good	Client
11	Not tagged	Leylandii	Cupressocyparis	11-15m	425	Mature	Fair	Fair		Roots Causing Trip Hazard	Bark Wounding/Damage, Stub Cuts	Low Branches, Minor Dead Wood Under 50mm Diameter	None Observed	Open space, Road	High	Good	Client
12	Not tagged	Cherry species	Prunus sp.	5-10m	350	Mature	Fair	Fair		None Significant	Bark Wounding/Damage, Co-dominant Stem	Minor Dead Wood Under 50mm Diameter	None Observed	Footpath, Open space	High	Good	Client

Tree Survey Schedule																
Tree ID	Tag No	Common Name	Scientific Name	Tree Height (bands)	Stem Diameter (mm)	Life Stage	Physiological Condition	Structural Condition	Observation Comments	Root/Base Observations	Trunk Observations	Crown Observations	Pests, Pathogens & Diseases	Target	Risk Zone	Access	Ownership
13	Not tagged	Cherry species	Prunus sp.	5-10m	300	Early-mature	Fair	Fair		None Significant	Bark Wounding/Damage	Minor Dead Wood Under 50mm Diameter	None Observed	Footpath, Open space	High	Good	Client
14	Not tagged	Common hawthorn	Crataegus monogyna	5-10m	75	Semi-mature	Fair	Fair		None Significant	Bark Wounding/Damage	Minor Dead Wood Under 50mm Diameter	None Observed	Footpath, Open space	High	Good	Client
15	Not tagged	Cherry species	Prunus sp.	5-10m	175	Semi-mature	Fair	Fair		None Significant	Bark Wounding/Damage	Minor Dead Wood Under 50mm Diameter	None Observed	Footpath, Open space	High	Good	Client
16	Not tagged	Common hawthorn	Crataegus monogyna	5-10m	150	Semi-mature	Fair	Fair	removed/missing	None Significant	Ivy Covered Stem	Prolific Ivy	None Observed	Building, Footpath	High	No access to base/stem	Client
17	0314	Cedar of lebanon	Cedrus libani	20+m	1300	Mature	Fair	Fair	large snapped out sections	None Significant	Bark Wounding/Damage, Ivy Covered Stem	Bracing - Flexible, Branch Rip Wound, Major Dead Wood Over 50mm Diameter, Overweight Subsiding Limbs	None Observed	Car park, Footpath	High	Good	Client
18	Not tagged	Irish yew	Taxus baccata fastigiata	16-20m	1000	Mature	Fair	Fair		None Significant	Co-dominant Stem, Ivy Covered Stem	Minor Dead Wood Under 50mm Diameter	None Observed	Building, Footpath	High	Good	Client
19	Not tagged	False acacia	Robinia pseudoacacia	16-20m	500	Mature	Fair	Fair	major dead over scrub land and limited danger risk	None Significant	Co-dominant Stem, Ivy Covered Stem	Major Dead Wood Over 50mm Diameter, Minor Dead Wood Under 50mm Diameter	None Observed	Building, Footpath	High	No access to base/stem	Client
20	Not tagged	Common ash	Fraxinus excelsior	5-10m	375	Semi-mature	Fair	Fair		None Significant	Ivy Covered Stem	Crown Close to Building and/or Infrastructure, Prolific Ivy	None Observed	Building, Footpath	High	No access to base/stem	Third party

Tree Survey Schedule																
Tree ID	Tag No	Common Name	Scientific Name	Tree Height (bands)	Stem Diameter (mm)	Life Stage	Physiological Condition	Structural Condition	Observation Comments	Root/Base Observations	Trunk Observations	Crown Observations	Pests, Pathogens & Diseases	Target	Risk Zone	Access	Ownership
21	Not tagged	Sycamore	Acer pseudoplatanus	5-10m	300	Semi-mature	Fair	Fair		None Significant	Ivy Covered Stem	Crown Close to Building and/or Infrastructure, Prolific Ivy	None Observed	Building, Footpath	High	No access to base/stem	Third party
22	Not tagged	Sycamore	Acer pseudoplatanus	5-10m	300	Semi-mature	Fair	Fair		None Significant	Ivy Covered Stem	Crown Close to Building and/or Infrastructure, Prolific Ivy	None Observed	Building, Footpath	High	No access to base/stem	Third party
23	Not tagged	Sycamore	Acer pseudoplatanus	5-10m	300	Semi-mature	Fair	Fair		None Significant	Ivy Covered Stem	Crown Close to Building and/or Infrastructure, Prolific Ivy	None Observed	Building, Footpath	High	No access to base/stem	Third party
24	1878	Common ash	Fraxinus excelsior	16-20m	375	Semi-mature	Fair	Fair	Tree growing directly adjacent, and in contact with wall, future incremental growth will likely result in damage	None Significant	Ivy Covered Stem, Multi-Stem	Minor Dead Wood Under 50mm Diameter	None Observed	Building, Footpath, Wall	High	Good	Client
25	1879	Common ash	Fraxinus excelsior	16-20m	350	Semi-mature	Fair	Fair	Tree growing directly adjacent, and in contact with wall, future incremental growth will likely result in damage Dieback in crown	None Significant	Ivy Covered Stem, Multi-Stem	Crown Dieback, Minor Dead Wood Under 50mm Diameter	None Observed	Building, Footpath, Wall	High	Good	Client
26	1881	Common ash	Fraxinus excelsior	16-20m	450	Mature	Fair	Fair		None Significant	Included Co-Dominant Stem, Ivy Covered Stem, Multi-Stem	Crossing/Rubbing Branches, Major Dead Wood Over 50mm Diameter, Minor Dead Wood Under 50mm Diameter	None Observed	Car park, Footpath, Wall	High	Good	Client
27	Not tagged	Crab apple	Malus sylvestris	5-10m	200	Semi-mature	Fair	Fair		None Significant	Bark Wounding/Damage, Co-dominant Stem, Leaning, Stub Cuts	Minor Dead Wood Under 50mm Diameter	None Observed	Footpath	High	Good	Client

Tree Survey Schedule																	
Tree ID	Tag No	Common Name	Scientific Name	Tree Height (bands)	Stem Diameter (mm)	Life Stage	Physiological Condition	Structural Condition	Observation Comments	Root/Base Observations	Trunk Observations	Crown Observations	Pests, Pathogens & Diseases	Target	Risk Zone	Access	Ownership
28	Not tagged	Field maple	Acer campestre	16-20m	450	Mature	Fair	Fair		None Significant	Ivy Covered Stem, Multi-Stem	Minor Dead Wood Under 50mm Diameter, Prolific Ivy	None Observed	Car park, Footpath, Road	High	Good	Client
29	Not tagged	Common ash	Fraxinus excelsior	16-20m	400	Mature	Fair	Fair		None Significant	Bark Wounding/Damage, Ivy Covered Stem, Multi-Stem	Minor Dead Wood Under 50mm Diameter, Pruning Wound	None Observed	Car park, Footpath, Road	High	Good	Client
30	Not tagged	Cherry species	Prunus sp.	5-10m	300	Mature	Fair	Fair		None Significant	Ivy Covered Stem	Prolific Ivy	None Observed	Car park	High	No access to base/stem	Client
31	Not tagged	Cherry species	Prunus sp.	5-10m	200	Semi-mature	Fair	Fair		None Significant	Co-dominant Stem	Minor Dead Wood Under 50mm Diameter	None Observed	Car park	High	Good	Client
32	1877	Common ash	Fraxinus excelsior	16-20m	400	Mature	Poor	Poor		None Significant	Cavity in Stem	Major Dead Wood Over 50mm Diameter, Minor Dead Wood Under 50mm Diameter	Fungus - Inonotus	Car park	High	No access to base/stem	Client

Tree Survey Schedule																
Tree ID	Tag No	Common Name	Scientific Name	Tree Height (bands)	Stem Diameter (mm)	Life Stage	Physiological Condition	Structural Condition	Observation Comments	Root/Base Observations	Trunk Observations	Crown Observations	Pests, Pathogens & Diseases	Target	Risk Zone	Access	Ownership
33	Not tagged	Common ash	Fraxinus excelsior	16-20m	475	Mature	Fair	Fair		None Significant	Multi-Stem	Major Dead Wood Over 50mm Diameter	Fungus - Inonotus	Car park, Footpath, Wall	High	Good	Client
34	Not tagged	Cherry species	Prunus sp.	0-5m	50	Semi-mature	Fair	Fair		None Significant	Co-dominant Stem	Minor Dead Wood Under 50mm Diameter, Pruning Wound	Fungus - Inonotus	Car park, Footpath	High	Good	Client
35	Not tagged	Crab apple	Malus sylvestris	0-5m	225	Early-mature	Fair	Fair		None Significant	Bark Wounding/Damage, Ivy Covered Stem	Minor Dead Wood Under 50mm Diameter	Fungus - Inonotus	Car park	High	Good	Client
36	Not tagged	Cherry species	Prunus sp.	0-5m	250	Early-mature	Fair	Fair		None Significant	Bark Wounding/Damage, Stub Cuts	Major Dead Wood Over 50mm Diameter, Minor Dead Wood Under 50mm Diameter	Fungus - Inonotus	Car park	High	Good	Client
37	Not tagged	Crab apple	Malus sylvestris	0-5m	225	Early-mature	Fair	Fair		None Significant	Bark Wounding/Damage, Co-dominant Stem	Minor Dead Wood Under 50mm Diameter	Fungus - Inonotus	Car park	High	Good	Client
38	Not tagged	Field maple	Acer campestre	5-10m	300	Early-mature	Fair	Fair		None Significant	Bark Wounding/Damage, Stub Cuts	Minor Dead Wood Under 50mm Diameter	Fungus - Inonotus	Car park	High	Good	Client
39	Not tagged	Cherry species	Prunus sp.	0-5m	275	Early-mature	Fair	Fair		None Significant	Ivy Covered Stem	Prolific Ivy	Fungus - Inonotus	Car park	High	No access to base/stem	Client

Tree Survey Schedule																	
Tree ID	Tag No	Common Name	Scientific Name	Tree Height (bands)	Stem Diameter (mm)	Life Stage	Physiological Condition	Structural Condition	Observation Comments	Root/Base Observations	Trunk Observations	Crown Observations	Pests, Pathogens & Diseases	Target	Risk Zone	Access	Ownership
40	Not tagged	Cherry species	Prunus sp.	0-5m	275	Early-mature	Fair	Fair		None Significant	Bark Wounding/Damage, Stub Cuts	Previous Poor Pruning	Fungus - Inonotus	Car park	High	Good	Client
41	Not tagged	Common ash	Fraxinus excelsior	11-15m	325	Early-mature	Fair	Fair		None Significant	Ivy Covered Stem	Minor Dead Wood Under 50mm Diameter	Fungus - Inonotus	Car park, Road	High	Good	Client
42	Not tagged	Common laburnum	Laburnum anagyroides	11-15m	275	Early-mature	Fair	Fair		None Significant	Bark Wounding/Damage, Cavity in Stem	Crossing/Rubbing Branches, Minor Dead Wood Under 50mm Diameter	Fungus - Inonotus	Car park, Road	High	Good	Client
43	Not tagged	Norway maple	Acer platanoides	16-20m	375	Early-mature	Fair	Fair		None Significant	Co-dominant Stem	Minor Dead Wood Under 50mm Diameter	Fungus - Inonotus	Car park, Road	High	Good	Client
44	1871	Common alder	Alnus glutinosa	11-15m	350	Mature	Poor	Poor		None Significant	Decay on Stem, Ivy Covered Stem	Crown Dieback	None Observed	Car park, Road	High	No access to base/stem	Client
45	1873	Common ash	Fraxinus excelsior	16-20m	400	Mature	Fair	Poor		None Significant	Decay on Stem, Cavity at Base	Minor Dead Wood Under 50mm Diameter	None Observed	Car park, Road	High	Good	Client
46	1870	Sycamore	Acer pseudoplatanus	11-15m	325	Mature	Dead	Poor		None Significant	Stem Failure	Minor Dead Wood Under 50mm Diameter	None Observed	Car park	High	Good	Client
47	Not tagged	Common lime	Tilia x europea	16-20m	375	Early-mature	Fair	Fair		None Significant	Co-dominant Stem	Minor Dead Wood Under 50mm Diameter	None Observed	Car park, Road	High	Good	Client
48	Not tagged	Common lime	Tilia x europea	16-20m	325	Early-mature	Fair	Fair		None Significant	Bark Wounding/Damage	Minor Dead Wood Under 50mm Diameter	None Observed	Car park, Road	High	Good	Client

Tree Survey Schedule																
Tree ID	Tag No	Common Name	Scientific Name	Tree Height (bands)	Stem Diameter (mm)	Life Stage	Physiological Condition	Structural Condition	Observation Comments	Root/Base Observations	Trunk Observations	Crown Observations	Pests, Pathogens & Diseases	Target	Risk Zone	Access	Ownership
49	Not tagged	Cherry species	Prunus sp.	5-10m	300	Early-mature	Fair	Fair		None Significant	Bark Wounding/Damage, Stub Cuts	Minor Dead Wood Under 50mm Diameter	None Observed	Car park, Road	High	Good	Client
50	1885	London plane	Platanus x hispanica	16-20m	525	Mature	Fair	Fair		None Significant	Bark Wounding/Damage, Cavity in Stem	Minor Dead Wood Under 50mm Diameter	None Observed	Car park, Road	High	Good	Client
51	1872	Norway maple	Acer platanoides	16-20m	325	Early-mature	Poor	Poor		None Significant	Decay at Crown Break, Decay on Stem, Bark Necrosis	Decay	None Observed	Car park, Road	High	Good	Client
52	1874	Common ash	Fraxinus excelsior	16-20m	475	Mature	Fair	Poor		None Significant	Ivy Covered Stem, Multi-Stem	Minor Dead Wood Under 50mm Diameter	Fungus - Inonotus	Car park, Road	High	Good	Client
53	1875	Common ash	Fraxinus excelsior	16-20m	375	Mature	Poor	Poor		Root-plate Failure	Stem Failure	Minor Dead Wood Under 50mm Diameter	Fungus - Inonotus	Other	High	Good	Client
54	1876	Common ash	Fraxinus excelsior	16-20m	300	Mature	Poor	Poor		None Significant	Decay on Stem, Decay Column	Minor Dead Wood Under 50mm Diameter	Fungus - Inonotus	Road, Other	High	Good	Client
55	1883	Common ash	Fraxinus excelsior	16-20m	325	Mature	Poor	Poor		None Significant	Decay on Stem, Decay Column	Minor Dead Wood Under 50mm Diameter	None Observed	Other	High	Good	Client
56	1884	Common ash	Fraxinus excelsior	16-20m	400	Mature	Fair	Poor		None Significant	Cavity at Base, Decay Column, Ivy Covered Stem	Minor Dead Wood Under 50mm Diameter	None Observed	Other	High	Good	Client

Tree Survey Schedule																	
Tree ID	Tag No	Common Name	Scientific Name	Tree Height (bands)	Stem Diameter (mm)	Life Stage	Physiological Condition	Structural Condition	Observation Comments	Root/Base Observations	Trunk Observations	Crown Observations	Pests, Pathogens & Diseases	Target	Risk Zone	Access	Ownership
57	Not tagged	Common ash	Fraxinus excelsior	11-15m	300		Dead	Poor		None Significant	Ivy - Significant (limits assessment)	Major Dead Wood Over 50mm Diameter	None Observed	Road	High	Good	Client

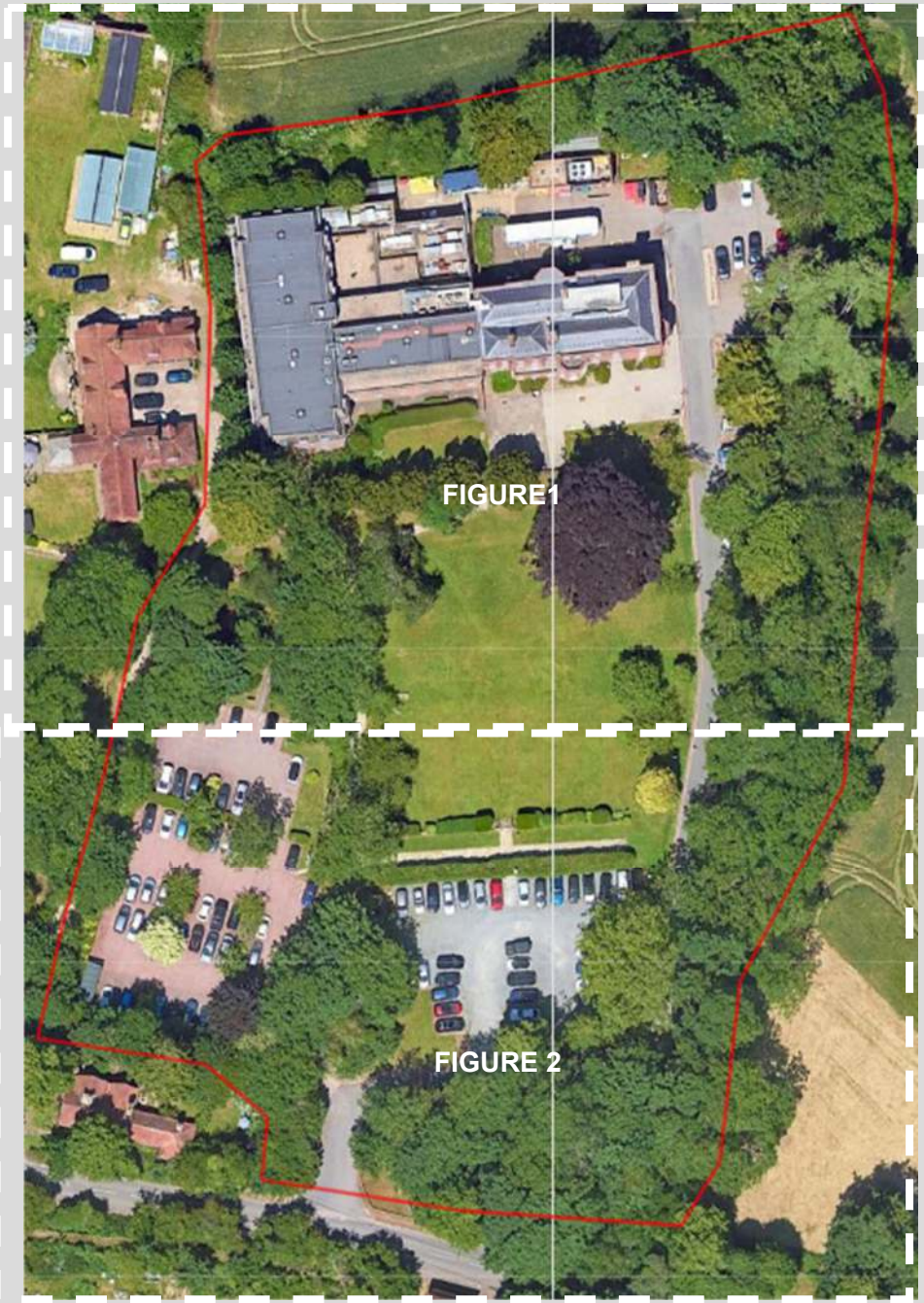
Tree Group Survey Schedule																		
Group ID	Tag No	Common Name	Scientific Name	Number of Trees	Tree Height (bands)	Stem Diameter (bands)	Life Stage	Physiological Condition	Structural Condition	Observation Comments	Root/Base Observations	Trunk Observations	Crown Observations	Pests, Pathogens & Diseases	Target	Risk Zone	Access	Ownership
1	Not tagged	Common yew	Taxus baccata	5	11-15m	300-450mm	Early-mature	Fair	Fair		None Significant	Ivy Covered Stem, Multi-Stem	Minor Dead Wood Under 50mm Diameter	None Observed	Footpath, Wall	High	No access to base/stem	Client
2	Not tagged	Field maple, Sycamore, Leyland cypress, Ash species, Black poplar	Acer campestre, Acer pseudoplatanus, Cupressus x leylandii, Fraxinus sp., populus nigra	5	20+m	450-600mm	Mature	Fair	Fair		None Significant	Leaning, Ivy Covered Stem	Major Dead Wood Over 50mm Diameter	None Observed	Other	High	No access to base/stem	Client
3	Not tagged	Mixed species	Mixed species	100	16-20m	450-600mm	Mature	Fair	Fair		None Significant	Co-dominant Stem	Major Dead Wood Over 50mm Diameter, Prolific Ivy	None Observed	Building, Car park, Other	High	No access to base/stem	Client
4	Not tagged	Mixed species	Mixed species	5	11-15m	300-450mm	Early-mature	Fair	Fair	recently pollarded	None Significant	Bark Wounding/Damage	Previously Pollarded	None Observed	Building	High	Good	Client
5	Not tagged	Mixed species	Mixed species	10	11-15m	300-450mm	Early-mature	Fair	Fair		None Significant	Bark Wounding/Damage, Ivy Covered Stem	Prolific Ivy	None Observed	Building, Footpath	High	No access - crown health only assessed	Client
6	Not tagged	Lawson cypress	Chamaecyparis lawsoniana	3	16-20m	300-450mm	Mature	Fair	Fair		None Significant	Bark Wounding/Damage	Minor Dead Wood Under 50mm Diameter	None Observed	Building, Footpath	High	Good	Client

Tree Group Survey Schedule																		
Group ID	Tag No	Common Name	Scientific Name	Number of Trees	Tree Height (bands)	Stem Diameter (bands)	Life Stage	Physiological Condition	Structural Condition	Observation Comments	Root/Base Observations	Trunk Observations	Crown Observations	Pests, Pathogens & Diseases	Target	Risk Zone	Access	Ownership
7	Not tagged	Mixed species	Mixed species	10	11-15m	300-450mm	Mature	Fair	Fair		None Significant	Bark Wounding/Damage, Ivy Covered Stem	Major Dead Wood Over 50mm Diameter, Minor Dead Wood Under 50mm Diameter, Prolific Ivy	None Observed	Car park, Footpath	High	No access to base/stem	Client
8	Not tagged	Mixed species	Mixed species	15	11-15m	300-450mm	Mature	Fair	Fair		None Significant	Bark Wounding/Damage, Ivy Covered Stem	Minor Dead Wood Under 50mm Diameter, Prolific Ivy	None Observed	Car park, Footpath	High	No access to base/stem	Client
9	Not tagged	Mixed species	Mixed species	9	11-15m	300-450mm	Mature	Fair	Fair		None Significant	Bark Wounding/Damage, Ivy Covered Stem	Minor Dead Wood Under 50mm Diameter, Prolific Ivy	None Observed	Car park, Footpath	High	No access to base/stem	Client
10	Not tagged	Mixed species	Mixed species	20	16-20m	300-450mm	Mature	Fair	Fair		None Significant	Bark Wounding/Damage, Multi-Stem	Minor Dead Wood Under 50mm Diameter	None Observed	Car park, Footpath	High	No access to base/stem	Client

Tree Group Survey Schedule																		
Group ID	Tag No	Common Name	Scientific Name	Number of Trees	Tree Height (bands)	Stem Diameter (bands)	Life Stage	Physiological Condition	Structural Condition	Observation Comments	Root/Base Observations	Trunk Observations	Crown Observations	Pests, Pathogens & Diseases	Target	Risk Zone	Access	Ownership
11	Not tagged	Mixed species	Mixed species	20	16-20m	300-450mm	Mature	Fair	Fair		None Significant	Bark Wounding/Damage, Ivy Covered Stem, Multi-Stem	Minor Dead Wood Under 50mm Diameter, Prolific Ivy	None Observed	Car park, Footpath	High	No access to base/stem	Client
12	Not tagged	Mixed species	Mixed species	150	16-20m	600-750mm	Mature	Mixed	Fair		None Significant	Bark Wounding/Damage, Ivy Covered Stem, Stem Failure	Branch/Limb Failure, Major Dead Wood Over 50mm Diameter, Prolific Ivy	None Observed	Car park, Footpath, Road, Other	High	No access to base/stem	Client
13	Not tagged	Norway maple, Common ash	Acer platanoides, Fraxinus excelsior	8	16-20m	300-450mm	Mature	Poor	Poor		None Significant	Ivy Covered Stem	Major Deadwood Over 50mm	None Observed	Car park, Road	High	Good	Client

Appendix B – Tree Survey Plans

SITE LAYOUT SHEET



NORTH

LEGEND

Site Boundary

Ground Control Ltd., Kingfisher House, Radford Way, Billericay, Essex, CM12 0EQ
T: 01277650 697 E: info@ground-control.co.uk www.ground-control.co.uk

Client

BMI – Circle Health Group

Project (Address)

VTA, Chelsfield Park Hospital, Bucks Cross Rd, Orpington, Chelsfield, BR6 7RG

Figure No.

GC Project ID: J230813

Issue Date: 16/08/2023

Notes:

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2. Tree positions are approximate only and based upon mobile GPS and/or site features.
3. Do not scale off this drawing. All written dimensions are to be checked on site prior to commencing works.
4. All discrepancies, errors or omissions are to be reported for clarification before proceeding.

FIGURE SHEET 1

NORTH

LEGEND

- T1 — Tree
- G1 — Tree Group
- Site Boundary

Ground Control Ltd., Kingfisher House, Radford Way, Billericay, Essex, CM12 0EQ
T: 01277650 697 E: info@ground-control.co.uk www.ground-control.co.uk

Client

BMI – Circle Health Group

Project (Address)

VTA, Chelsfield Park Hospital, Bucks Cross Rd, Chelsfield, Orpingtpn, BR6 7RG

Figure No.

FIG. 1

GC Project ID: J230813 Issue Date: 16/08/2023

Notes:

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FIGURE SHEET 2

NORTH

LEGEND

- Tree
- Tree Group
- Site Boundary

Ground Control Ltd., Kingfisher House, Radford Way, Billericay, Essex, CM12 0EQ
T: 01277650 697 E: info@ground-control.co.uk www.ground-control.co.uk

Client

BMI – Circle Health Group

Project (Address)

VTA, Chelsfield Park Hospital, Bucks Cross Rd, Chelsfield, Orpingtpn, BR6 7RG

Figure No.

FIG. 2

GC Project ID: J230813

Issue Date: 16/08/2023

Notes:

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4. All discrepancies, errors or omissions are to be reported for clarification before proceeding.

Appendix C – Tree Work Recommendations

Tree ID	Common Name Tree	Work Task	Work Priority	Description	Tag No
36	Cherry species	Fell to Ground Level (Directional Fell)	Within 1 Month	Fell	Not tagged
44	Common alder	Fell to Ground Level (Directional Fell)	Within 1 Month	Fell to ground	1871
45	Common ash	Fell to Ground Level (Directional Fell)	Within 1 Month	Fell to ground	1873
46	Sycamore	Fell to Ground Level (Directional Fell)	Within 1 Month	Fell to ground	1870
53	Common ash	Fell to Ground Level (Directional Fell)	Within 1 Month	Fell to ground	1875
57	Common ash	Fell to Ground Level (Directional Fell)	Within 1 Month	Fell to ground	Not tagged
Group 13	Norway maple & Common Ash	Remove Dead Wood	Within 1 Month	Remove deadwood from all 8 trees	Not tagged
25	Common ash	Remove Dead Wood	Within 1-3 Months	Pollard to 9m and remove deadwood	1879
7	Horse chestnut	Remove Dead Wood	Within 1 - 3 Months	Remove all dead wood and limbs	1880
17	Cedar of lebanon	Remove Specific Branch/Limb	Within 1-3 Months		0314
17	Cedar of lebanon	Remove Dead Wood	Within 1-3 Months		0314
20	Common ash	Prune to clear building by 2m	Within 1 - 3 Months	Prune awwy from building	Not tagged
21	Sycamore	Prune to clear building by 2m	Within 1 - 3 Months	Prune away from building	Not tagged
23	Sycamore	Prune to clear building by 2m	Within 1 - 3 Months	Prune away from building	Not tagged
24	Common ash	Pollard to Specified Height	Within 1 - 3 Months	Pollard to leave 8m in height	1878
26	Common ash	Remove Dead Wood	Within 1 - 3 Months	Remove major deadwood	1881
32	Common ash	Remove Dead Wood	Within 1 - 3 Months	Remove major deadwood	1877
32	Common ash	Fell, Leaving Stump Just Above Ground Level	Within 1 - 3 Months		1877
33	Common ash	Remove Dead Wood	Within 1 -3 Months	Remove major deadwood	Not tagged
50	London plane	Reduce Crown in Height (by 2m) and Shape	Within 1 - 3 Months		1885
51	Norway maple	Fell, Leaving Stump Just Above Ground Level	Within 1 - 3 Months		1872
52	Common ash	Crown Reduce in Height by Specified Amount & Shape	Within 1 - 3 Months	Height reduced by 6m	1874
54	Common ash	Fell, Leaving Stump Just Above Ground Level	Within 1 - 3 Months		1876
55	Common ash	Fell, Leaving Stump Just Above Ground Level	Within 1 - 3 Months		1883
56	Common ash	Fell, Leaving Stump Just Above Ground Level	Within 1 - 3 Months		1884
Group 7	Common Ash	Remove Dead Wood	Within 1 - 3 Months	Dead wood all ash	Not tagged
3	Copper beech	Reduce Crown in Height (by 5m) and Shape	Within 6 - 12 Months	Reduce weight and height	325

Appendix D – Photographs

Cherry species Tree ID #30439

VTA	
Site:	BMI - Chelsfield Park Hospital
Tree ID:	36
Tag No:	
Status:	Alive
Common Name:	Cherry species
Scientific Name:	Prunus sp.
Tree Height (bands):	0-5m
Do not use - Stem Diameter (bands):	150-300mm
Crown Diameter [m]:	3
Family:	
Life Stage:	Early-mature
Target:	Car park
Risk Zone:	High
Physiological Condition:	Fair
Structural Condition:	Fair
Access:	Good

Common alder Tree ID #30454

VTA	
Site:	BMI - Chelsfield Park Hospital
Tree ID:	44
Tag No:	1871
Status:	Dead
Common Name:	Common alder
Scientific Name:	Alnus glutinosa
Tree Height (bands):	11-15m
Do not use - Stem Diameter (bands):	300-450mm
Crown Diameter [m]:	2
Family:	Betulaceae
Life Stage:	Mature
Target:	Car park, Road
Risk Zone:	High
Physiological Condition:	Poor
Structural Condition:	Poor
Access:	No access to base/stem

VTA	
Site:	BMI - Chelsfield Park Hospital
Tree ID:	46
Tag No:	1870
Status:	Dead
Common Name:	Sycamore
Scientific Name:	Acer pseudoplatanus
Tree Height (bands):	11-15m
Do not use - Stem Diameter (bands):	300-450mm
Crown Diameter [m]:	2
Family:	Sapindaceae
Life Stage:	Mature
Target:	Car park
Risk Zone:	High
Physiological Condition:	Dead
Structural Condition:	Poor
Access:	Good

Common ash Tree ID #30501

Bucks Cross Road

VTA	
Site:	BMI - Chelsfield Park Hospital
Tree ID:	53
Tag No:	1875
Status:	Alive
Common Name:	Common ash
Scientific Name:	Fraxinus excelsior
Tree Height (bands):	16-20m
Do not use - Stem Diameter (bands):	300-450mm
Crown Diameter [m]:	10
Family:	Oleaceae
Life Stage:	Mature
Target:	Other
Risk Zone:	High
Physiological Condition:	Poor
Structural Condition:	Poor
Access:	Good

Common ash Tree ID #30515

Bucks Cross Road

VTA

Site:	BMI - Chelsfield Park Hospital
Tree ID:	55
Tag No:	1883
Status:	Alive
Common Name:	Common ash
Scientific Name:	Fraxinus excelsior
Tree Height (bands):	16-20m
Do not use - Stem Diameter (bands):	300-450mm
Crown Diameter [m]:	8
Family:	Oleaceae
Life Stage:	Mature
Target:	Other
Risk Zone:	High
Physiological Condition:	Poor
Structural Condition:	Poor
Access:	Good

Common ash Tree ID #43473

Bucks Cross Road

VTA	
Site:	BMI - Chelsfield Park Hospital
Tree ID:	57
Tag No:	
Status:	Alive
Common Name:	Common ash
Scientific Name:	Fraxinus excelsior
Tree Height (bands):	11-15m
Do not use - Stem Diameter (bands):	300-450mm
Crown Diameter [m]:	8
Family:	Oleaceae
Life Stage:	
Target:	Road
Risk Zone:	High
Physiological Condition:	Dead
Structural Condition:	Poor
Access:	Good

Common ash Tree ID #30410

VTA	
Site:	BMI - Chelsfield Park Hospital
Tree ID:	25
Tag No:	1879
Status:	Alive
Common Name:	Common ash
Scientific Name:	Fraxinus excelsior
Tree Height (bands):	16-20m
Do not use - Stem Diameter (bands):	300-450mm
Crown Diameter [m]:	8
Family:	Oleaceae
Life Stage:	Semi-mature
Target:	Building, Footpath, Wall
Risk Zone:	High
Physiological Condition:	Fair
Structural Condition:	Fair
Access:	Good

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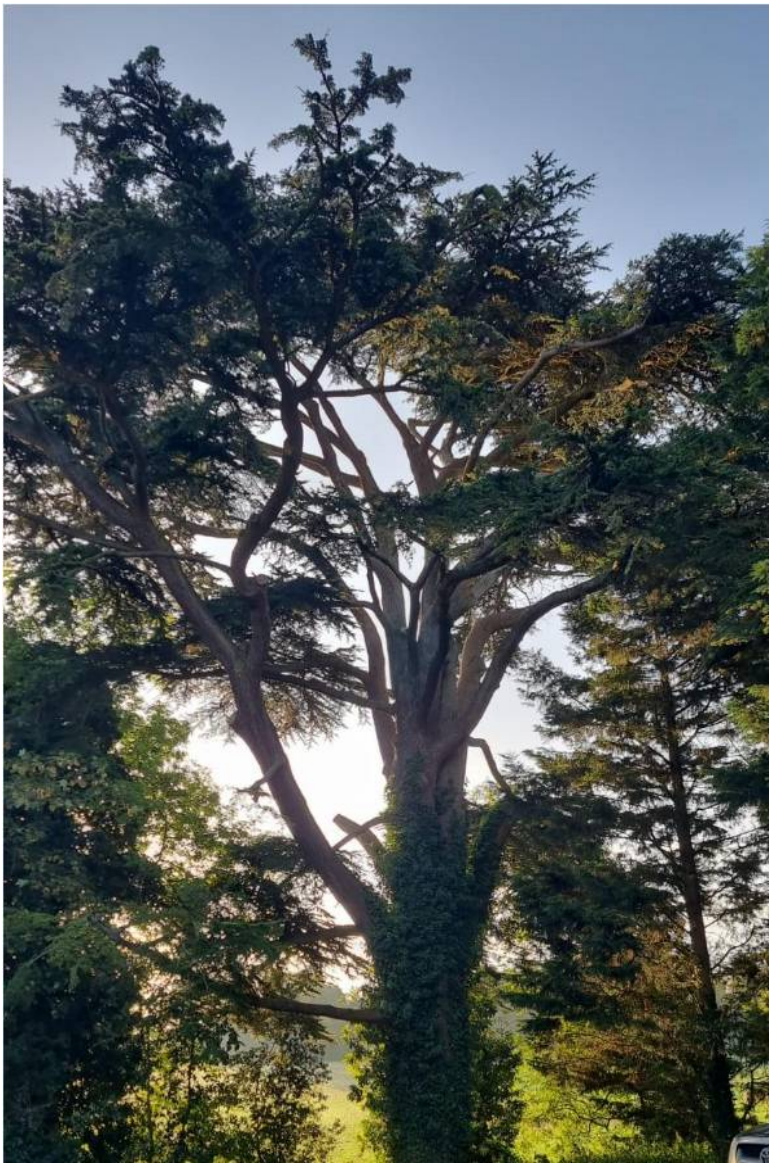
Horse chestnut Tree ID #30390

VTA	
Site:	BMI - Chelsfield Park Hospital
Tree ID:	7
Tag No:	1880
Status:	Alive
Common Name:	Horse chestnut
Scientific Name:	Aesculus hippocastanum
Tree Height (bands):	16-20m
Do not use - Stem Diameter (bands):	750-1000mm
Crown Diameter [m]:	14
Family:	Sapindaceae
Life Stage:	Mature
Target:	Footpath
Risk Zone:	High
Physiological Condition:	Fair
Structural Condition:	Fair
Access:	Good

Cedar of lebanon Tree ID #30400

VTA	
Site:	BMI - Chelsfield Park Hospital
Tree ID:	17
Tag No:	0314
Status:	Alive
Common Name:	Cedar of lebanon
Scientific Name:	Cedrus libani
Tree Height (bands):	20+m
Do not use - Stem Diameter (bands):	1000+mm
Crown Diameter [m]:	18
Family:	Pinaceae
Life Stage:	Mature
Target:	Car park, Footpath
Risk Zone:	High
Physiological Condition:	Fair
Structural Condition:	Fair
Access:	Good

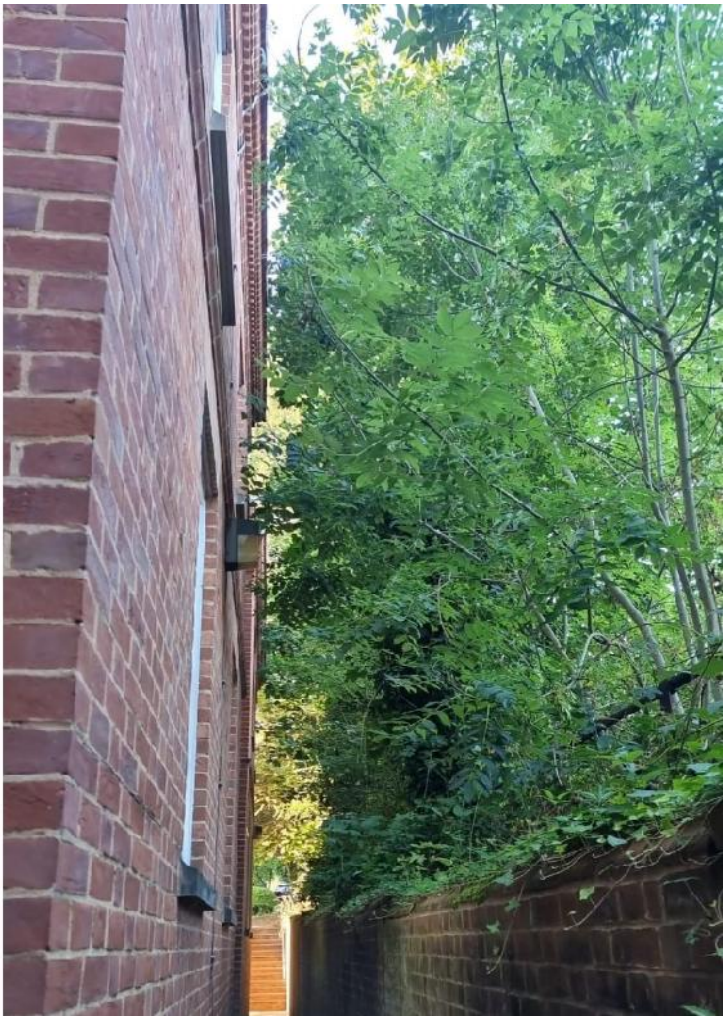


Common ash Tree ID #30403

VTA	
Site:	BMI - Chelsfield Park Hospital
Tree ID:	20
Tag No:	
Status:	Alive
Common Name:	Common ash
Scientific Name:	Fraxinus excelsior
Tree Height (bands):	5-10m
Do not use - Stem Diameter (bands):	300-450mm
Crown Diameter [m]:	6
Family:	Oleaceae
Life Stage:	Semi-mature
Target:	Building, Footpath
Risk Zone:	High
Physiological Condition:	Fair
Structural Condition:	Fair
Access:	No access to base/stem

Sycamore Tree ID #30404

VTA	
Site:	BMI - Chelsfield Park Hospital
Tree ID:	21
Tag No:	
Status:	Alive
Common Name:	Sycamore
Scientific Name:	Acer pseudoplatanus
Tree Height (bands):	5-10m
Do not use - Stem Diameter (bands):	300-450mm
Crown Diameter [m]:	6
Family:	Sapindaceae
Life Stage:	Semi-mature
Target:	Building, Footpath
Risk Zone:	High
Physiological Condition:	Fair
Structural Condition:	Fair
Access:	No access to base/stem



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Sycamore Tree ID #30406

VTA	
Site:	BMI - Chelsfield Park Hospital
Tree ID:	23
Tag No:	
Status:	Alive
Common Name:	Sycamore
Scientific Name:	Acer pseudoplatanus
Tree Height (bands):	5-10m
Do not use - Stem Diameter (bands):	300-450mm
Crown Diameter [m]:	6
Family:	Sapindaceae
Life Stage:	Semi-mature
Target:	Building, Footpath
Risk Zone:	High
Physiological Condition:	Fair
Structural Condition:	Fair
Access:	No access to base/stem

Common ash Tree ID #30408

VTA	
Site:	BMI - Chelsfield Park Hospital
Tree ID:	24
Tag No:	1878
Status:	Alive
Common Name:	Common ash
Scientific Name:	Fraxinus excelsior
Tree Height (bands):	16-20m
Do not use - Stem Diameter (bands):	300-450mm
Crown Diameter [m]:	8
Family:	Oleaceae
Life Stage:	Semi-mature
Target:	Building, Footpath, Wall
Risk Zone:	High
Physiological Condition:	Fair
Structural Condition:	Fair
Access:	Good

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Common ash Tree ID #30413

Bucks Cross Road

VTA	
Site:	BMI - Chelsfield Park Hospital
Tree ID:	26
Tag No:	1881
Status:	Alive
Common Name:	Common ash
Scientific Name:	Fraxinus excelsior
Tree Height (bands):	16-20m
Do not use - Stem Diameter (bands):	300-450mm
Crown Diameter [m]:	10
Family:	Oleaceae
Life Stage:	Mature
Target:	Car park, Footpath, Wall
Risk Zone:	High
Physiological Condition:	Fair
Structural Condition:	Fair
Access:	Good

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Common ash Tree ID #30428

Bucks Cross Road

VTA	
Site:	BMI - Chelsfield Park Hospital
Tree ID:	32
Tag No:	1877
Status:	Alive
Common Name:	Common ash
Scientific Name:	Fraxinus excelsior
Tree Height (bands):	16-20m
Do not use - Stem Diameter (bands):	300-450mm
Crown Diameter [m]:	10
Family:	Oleaceae
Life Stage:	Mature
Target:	Car park
Risk Zone:	High
Physiological Condition:	Poor
Structural Condition:	Poor
Access:	No access to base/stem

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London plane Tree ID #30480

Bucks Cross Road

VTA	
Site:	BMI - Chelsfield Park Hospital
Tree ID:	50
Tag No:	1885
Status:	Alive
Common Name:	London plane
Scientific Name:	Platanus x hispanica
Tree Height (bands):	16-20m
Do not use - Stem Diameter (bands):	450-600mm
Crown Diameter [m]:	14
Family:	Platanaceae
Life Stage:	Mature
Target:	Car park, Road
Risk Zone:	High
Physiological Condition:	Fair
Structural Condition:	Fair
Access:	Good

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Common ash Tree ID #30433

Bucks Cross Road

VTA	
Site:	BMI - Chelsfield Park Hospital
Tree ID:	33
Tag No:	
Status:	Alive
Common Name:	Common ash
Scientific Name:	Fraxinus excelsior
Tree Height (bands):	16-20m
Do not use - Stem Diameter (bands):	450-600mm
Crown Diameter [m]:	12
Family:	Oleaceae
Life Stage:	Mature
Target:	Car park, Footpath, Wall
Risk Zone:	High
Physiological Condition:	Fair
Structural Condition:	Fair
Access:	Good

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Norway maple Tree ID #30485

6 Bucks Cross Road

VTA	
Site:	BMI - Chelsfield Park Hospital
Tree ID:	51
Tag No:	1872
Status:	Alive
Common Name:	Norway maple
Scientific Name:	Acer platanoides
Tree Height (bands):	16-20m
Do not use - Stem Diameter (bands):	300-450mm
Crown Diameter [m]:	6
Family:	Sapindaceae
Life Stage:	Early-mature
Target:	Car park, Road
Risk Zone:	High
Physiological Condition:	Poor
Structural Condition:	Poor
Access:	Good

Common ash Tree ID #30495

Bucks Cross Road

VTA	
Site:	BMI - Chelsfield Park Hospital
Tree ID:	52
Tag No:	1874
Status:	Alive
Common Name:	Common ash
Scientific Name:	Fraxinus excelsior
Tree Height (bands):	16-20m
Do not use - Stem Diameter (bands):	450-600mm
Crown Diameter [m]:	10
Family:	Oleaceae
Life Stage:	Mature
Target:	Car park, Road
Risk Zone:	High
Physiological Condition:	Fair
Structural Condition:	Poor
Access:	Good

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Common ash Tree ID #30505

Bucks Cross Road

VTA

Site:	BMI - Chelsfield Park Hospital
Tree ID:	54
Tag No:	1876
Status:	Alive
Common Name:	Common ash
Scientific Name:	Fraxinus excelsior
Tree Height (bands):	16-20m
Do not use - Stem Diameter (bands):	300-450mm
Crown Diameter [m]:	8
Family:	Oleaceae
Life Stage:	Mature
Target:	Road, Other
Risk Zone:	High
Physiological Condition:	Poor
Structural Condition:	Poor
Access:	Good

Common ash Tree ID #30515

Bucks Cross Road

VTA	
Site:	BMI - Chelsfield Park Hospital
Tree ID:	55
Tag No:	1883
Status:	Alive
Common Name:	Common ash
Scientific Name:	Fraxinus excelsior
Tree Height (bands):	16-20m
Do not use - Stem Diameter (bands):	300-450mm
Crown Diameter [m]:	8
Family:	Oleaceae
Life Stage:	Mature
Target:	Other
Risk Zone:	High
Physiological Condition:	Poor
Structural Condition:	Poor
Access:	Good

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Common ash Tree ID #30516

Bucks Cross Road

VTA	
Site:	BMI - Chelsfield Park Hospital
Tree ID:	56
Tag No:	1884
Status:	Alive
Common Name:	Common ash
Scientific Name:	Fraxinus excelsior
Tree Height (bands):	16-20m
Do not use - Stem Diameter (bands):	300-450mm
Crown Diameter [m]:	8
Family:	Oleaceae
Life Stage:	Mature
Target:	Other
Risk Zone:	High
Physiological Condition:	Fair
Structural Condition:	Poor
Access:	Good

Copper beech Tree ID #30386

Bucks Cross Road

VTA	
Site:	BMI - Chelsfield Park Hospital
Tree ID:	3
Tag No:	0325
Status:	Alive
Common Name:	Copper beech
Scientific Name:	Fagus sylvatica f. purpurea
Tree Height (bands):	20+m
Do not use - Stem Diameter (bands):	1000+mm
Crown Diameter [m]:	18
Family:	
Life Stage:	Mature
Target:	Building, Footpath, Road
Risk Zone:	High
Physiological Condition:	Fair
Structural Condition:	Poor
Access:	Good

Ground Control
PROFESSIONAL SERVICES

Ecology
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