

# Arboricultural Assessment Report

Midleton Flood Relief Scheme

Midleton

Co. Cork

August 2023



**TREESPACE**

Trees • Woodland • Urban Forestry

**DOCUMENT CONTROL SHEET**

**PROJECT NAME:** Arboricultural Assessment – *an assessment of trees in relation to development.*

**PROJECT REFERENCE:** Midleton Flood Relief Scheme

**PROJECT LOCATION:** Midleton Town, County Cork

**PREPARED FOR:** Cork County Council

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**FIELD ASSESSMENT**

**Lead Arborist:** Conor O Callaghan

**Assistant Arborist:** Rik Pannett

**REPORT**

**PREPARED BY:** Conor O Callaghan

**QUALIFICATIONS:** MSc Arboriculture & Urban Forestry, BSc Forestry Management

**CONTACT:** [info@treespace.ie](mailto:info@treespace.ie)

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## Contents

1. Introduction .....	1
1.1. Instructions & Brief .....	1
1.2. Aims and Approach .....	1
1.3. The Limitations of the Report .....	3
2. The Scheme .....	4
2.1. General Description of the Scheme .....	4
2.2. Study Area .....	4
3. Context .....	6
3.1. Trees, Woodlands, and Statutory Designations .....	6
3.2. Planning Policy .....	8
4. The Trees .....	8
4.1. General Description of the Trees .....	8
4.2. Tree Population Analysis Tables .....	10
5. Design & Construction Phase .....	13
5.1. General Mitigation .....	13
5.2. Notable, Veteran & Ancient Trees .....	15
5.3. No Dig Construction .....	16
5.4. Tree Protection Measures .....	18
5.5. Tree Works .....	19
6. Replacement Tree Planting .....	20
7. Conclusions .....	20
<b>Appendix 1: Glossary of Terms .....</b>	
<b>Appendix 2: Tree Schedule Key Category 1 &amp; 2 + Tree Categorization Table .....</b>	
<b>Appendix 3: Tree Survey Schedule Category 1 &amp; 2 .....</b>	
<b>Appendix 4: Photographic Summary .....</b>	

**Appendix 5: Tree Constraints Plans .....****List of Figures**

<b>Figure 1:</b> Aerial image of the study area..	5
<b>Figure 2:</b> map of the scheme illustrating the spatial relationship between the scheme boundaries, the conservation areas and the woodland sites.....	7
<b>Figure 3:</b> aerial image of a portion of the site highlighting the tree survey boundaries and a selection of the oldest trees. ....	10
<b>Figure 4:</b> extract from the Tree Constraints Plan.....	14
<b>Figure 5:</b> section of the basic approach to using cellular confinement systems around trees. ....	17
<b>Figure 6:</b> example of how a cellular confinement system can be installed on sloping or uneven ground. ....	18
<b>Figure 7:</b> British Standard BS 5837: TREE PROTECTIVE FENCING. ....	19

**List of Tables**

<b>Table 1:</b> List of drawings to inform the tree survey and report .....	1
<b>Table 2:</b> Arboricultural Assessment Process .....	2
<b>Table 3:</b> number of features assessed within the category 1 boundaries and category 2 boundaries. ....	10
<b>Table 4:</b> list of arboricultural features included in the tree survey and their land ownership assessment. ....	11
<b>Table 5:</b> list of tree species included in the field assessment.....	12
<b>Table 6:</b> life stage assessment.....	12
<b>Table 7:</b> vitality class assessment.....	13
<b>Table 8:</b> retention category assessment.....	13
<b>Table 9:</b> retention sub-category assessment.....	13
<b>Table 10:</b> list of a selection of the oldest trees included in the field assessment. ....	16

## 1. Introduction

### 1.1. Instructions & Brief

- 1.1.1. Tree-space has been instructed to undertake an arboricultural assessment of the trees and any other significant woody vegetation in a select number of locations along the watercourses in Midleton Town. Cork County Council (CCC) the contracting authority, acting as an agent for the Office of Public Works (OPW) intends to develop a robust flood relief scheme to address flood risk in the area. The Midleton Flood Relief Scheme (from now on referred to as ‘the scheme’) follows on from the Lee Catchment Flood Risk Assessment and Management Study (CFRAMS) and the major flood event of December 2015. ARUP the consulting engineers have been appointed by Cork CC to design the flood defense and river engineering works, and prepare the Environmental Impact Assessment (EIA). The scheme is currently at stage 2 where the preferred option has become apparent and is progressing to the statutory consent process.
- 1.1.2. This report documents the findings of the tree survey and provides context and guidance on retaining trees around new infrastructure. The tree survey targeted the areas highlighted in the Arborist Survey Specification<sup>1</sup> provided by ARUP. Information was gathered on all arboricultural features within or in proximity to the tree survey boundaries. The information presented in this report is intended to allow informed decisions to be made on which trees can be retained in the event of a development occurring.
- 1.1.3. The field assessment was completed during July and August 2023. The following documents were provided to Tree-space to inform the tree survey and report:

**Table 1: List of drawings to inform the tree survey and report**

Document Title	Document/Drawing Number	Originator
Extent of the tree survey	Arborist Survey Specification, ref: 252803_BOB_RP_0001	ARUP
Aerial Imagery	Bluesky 20 cm resolution raster	BS

- 1.1.4. This report should be read in conjunction with the following Tree-space plans:
- Tree Constraints Plans: TS-TP-11/28/23 – Sheets 1 to 12.

### 1.2. Aims and Approach

- 1.2.1. The purpose of this assessment is to quantify and categorise the arboricultural features on the site and assess the potential constraints to development. Trees are a material consideration for local authorities and tree owners. Whether they have statutory protection or not the potential impacts of construction must be

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<sup>1</sup> ARUP (2023). *Midleton Flood Relief Scheme – Arborist Survey Specification*. Document Reference: 252803\_BOB\_RP\_0001.

considered. Construction activities often exert pressures on pre-existing trees and in some cases trees that have taken decades to mature can be damaged irreparably. The assessment and implementation of protection measures is therefore critical to mitigate against any potential negative impacts.

- 1.2.2. The arboricultural assessment was undertaken in accordance with the British Standard *BS 5837:2012 Trees in relation to design, demolition, and construction – Recommendations*<sup>2</sup>. The British Standard sets out the principles and procedures to be applied to achieve a harmonious and sustainable relationship between trees and structures. The assessment process undertaken for this report is described in table two below.

**Table 2: Arboricultural Assessment Process**

TASK	DESCRIPTION
Tree Location Survey	Record the position of all trees within the scheme boundary with a stem diameter of 75 mm or more, measured at 1.5 m above highest adjacent ground level. In woodlands or tree groups only trees with a stem diameter of 150 mm or more are recorded. The location of each surveyed tree is recorded in Irish Transverse Mercator (ITM) coordinates. The coordinates are collected using pole mounted GPS receivers and GIS field capture software. The target accuracy for this assessment was 30 cm.
Tree survey	Collect relevant information on all trees included in the tree location survey. Each surveyed tree is allocated a unique ID (tree tag number), the aluminium tree tag number is fixed to the main stem of each tree. The parameters of the tree survey are set out in BS 5837:2012 section 4.4 and are described in more detail in Appendix 2 of this report. The tree survey parameters include reference number, species, height, stem diameter, canopy spread, first significant branch height (FSB), life stage, general observations, remaining contribution, and the retention category.
Tree categorization	Identify the quality and value of the existing tree population. The categorization method set out in table 1, BS 5837:2012 allows informed decisions to be made concerning which trees should be removed or retained in the event of a development occurring. The tree quality assessment table is included in Appendix 2 of this report.

<sup>2</sup> The British Standards Institution (2012) *Trees in relation to design, demolition, and construction – Recommendations*. BSI Standards Limited.

TASK	DESCRIPTION
Impact assessment	Identify the requirements for the successful retention of the retained trees and detail the measures necessary for protection during the development process. Root protection areas (RPA's) are calculated in accordance with section 4.6, BS 5837:2012. The RPA is the minimum area around a tree that needs to remain undisturbed to maintain the tree's viability. The RPAs of each categorised tree will be plotted on relevant scaled drawings.
Tree protection plan	The tree protection plan indicates the precise location of the protective barriers to be erected to form a construction exclusion zone around the retained trees. The plan will be superimposed on the layout plan, based on the topographical survey.
Construction stage tree management strategy	The construction stage tree management strategy sets out the guidelines for the successful protection of the retained trees during the construction phase. The guidelines will address some or all of the following: Pre commencement site briefing, pre-development tree works, site supervision, protective fencing, ground protection, boundary treatments, services and drainage, and monitoring. Detailed arboricultural method statements may be required during the construction phase.

### 1.3. The Limitations of the Report

- 1.3.1. Only those trees specified in the scope of work were assessed. The observations that were made are limited to the requirements of planning and development. The survey is not a tree risk assessment.
- 1.3.2. The trees were visually assessed from ground level only. No climbing inspections were conducted. No invasive or other detailed internal decay detection devices were used.
- 1.3.3. The target accuracy for the tree location survey was 30 cm. However, this could not always be achieved due to the heavy canopy conditions. Where possible the positions of trees were improved based on the aerial imagery and topographical survey information provided. When recording the positions of trees inside tree groups and dense woodlands the accuracy levels were reduced. As a consequence, the locations of some trees may need additional verifying.
- 1.3.4. Attempts were made to access all trees within the site extents; however, some trees were not accessible for health and safety reasons. Several trees were out of reach because of their location on the water course or obstructions e.g., high boundary walls or fences. Where trees were inaccessible their position was estimated and they were assessed from the closest vantage point.
- 1.3.5. Many of the trees included in the field assessment had heavy ivy and dense bramble on the stems and crowns. Accurate measurements of stem diameter was

sometimes restricted, and the presence of defects or structural weakness could not be accurately assessed.

- 1.3.6. The conclusions relate to the conditions found at the time of survey. Trees are living organisms that are subject to the stresses of climatic extremes, decay fungi and injurious diseases. There is no warranty or guarantee, expressed or implied, that problems or deficiencies of the trees in question may not arise in the future.

## 2. The Scheme

### 2.1. General Description of the Scheme

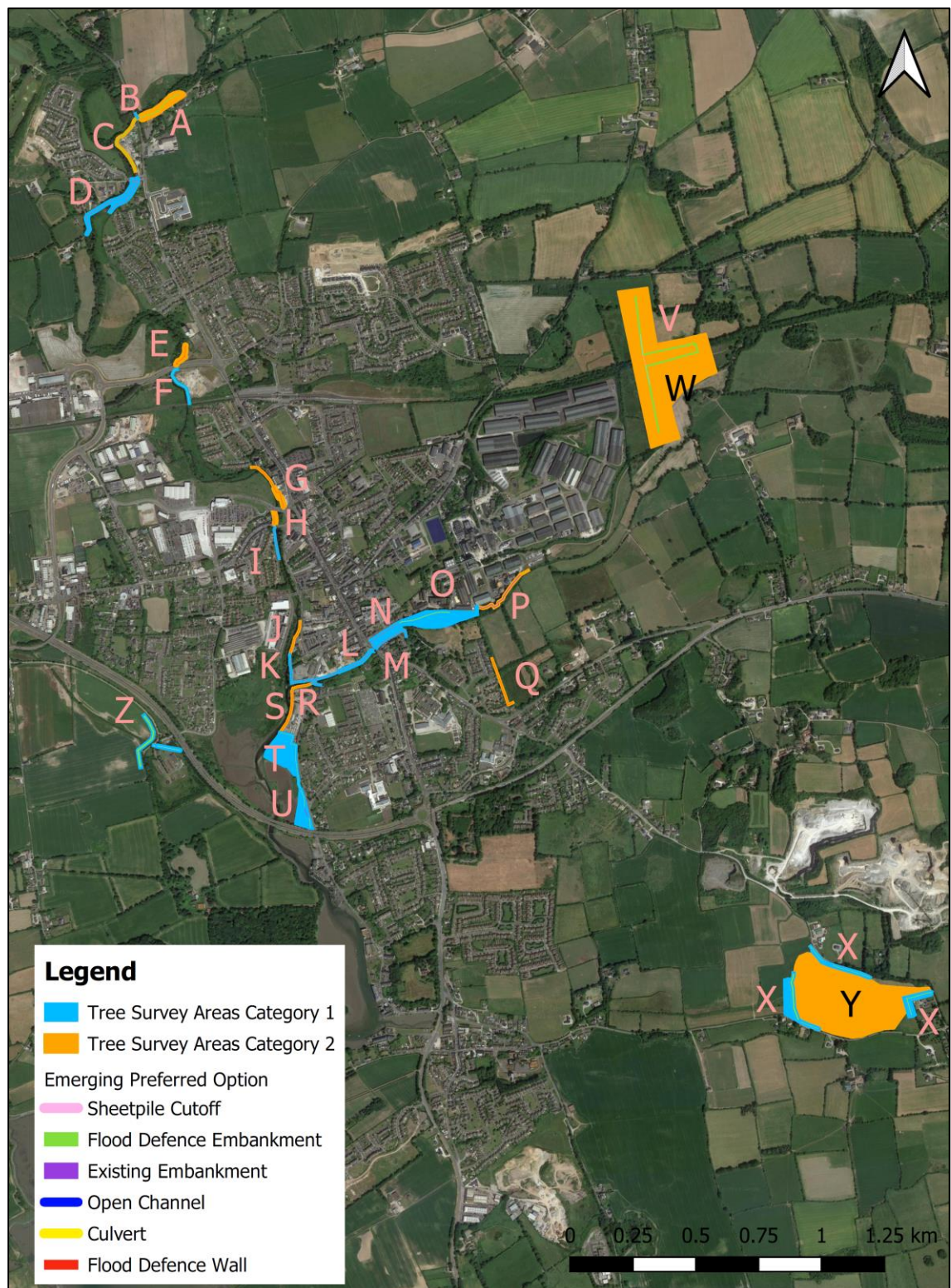
- 2.1.1. The emerging preferred options for the scheme include a series of new flood defense embankments, upgrading and maintaining existing embankments, flood defense walls and surface water pumping stations. The following list of web links connect to the posters from the third public participation day and provide more detail on the constraints and preferred options within the project area:

- a) Area 1 & 2: [https://www.floodinfo.ie/frs/media/filer\\_public/11/0f/110f6aef-6441-4656-95e3-d0962030e665/midleton\\_posters\\_05.pdf](https://www.floodinfo.ie/frs/media/filer_public/11/0f/110f6aef-6441-4656-95e3-d0962030e665/midleton_posters_05.pdf)
- b) Area 3 (North): [https://www.floodinfo.ie/frs/media/filer\\_public/81/cf/81cf60af-c6e5-44c9-a7b2-25a1e5973af7/midleton\\_posters\\_07.pdf](https://www.floodinfo.ie/frs/media/filer_public/81/cf/81cf60af-c6e5-44c9-a7b2-25a1e5973af7/midleton_posters_07.pdf)
- c) Area 3 (South): [https://www.floodinfo.ie/frs/media/filer\\_public/1d/1b/1d1b5f1b-d275-432c-a316-ff0b907098a6/midleton\\_posters\\_09.pdf](https://www.floodinfo.ie/frs/media/filer_public/1d/1b/1d1b5f1b-d275-432c-a316-ff0b907098a6/midleton_posters_09.pdf)
- d) Area 4: [https://www.floodinfo.ie/frs/media/filer\\_public/58/e7/58e7f2e2-9e62-4e6a-adfd-13eea7fcf234/midleton\\_posters\\_11.pdf](https://www.floodinfo.ie/frs/media/filer_public/58/e7/58e7f2e2-9e62-4e6a-adfd-13eea7fcf234/midleton_posters_11.pdf)
- e) Area 5: [https://www.floodinfo.ie/frs/media/filer\\_public/f6/38/f638d479-9916-413c-b879-07cc450d13f8/midleton\\_posters\\_13.pdf](https://www.floodinfo.ie/frs/media/filer_public/f6/38/f638d479-9916-413c-b879-07cc450d13f8/midleton_posters_13.pdf)
- f) Area 6: [https://www.floodinfo.ie/frs/media/filer\\_public/0e/0b/0e0b26ca-b7d1-4020-8f76-4df7818f4904/midleton\\_posters\\_14.pdf](https://www.floodinfo.ie/frs/media/filer_public/0e/0b/0e0b26ca-b7d1-4020-8f76-4df7818f4904/midleton_posters_14.pdf)

### 2.2. Study Area

- 2.2.1. The tree survey targeted the trees within the tree survey boundaries in sites A to Z highlighted on the tree survey location map in the Arborist Survey Specification document (see figure 1 below). The survey required two levels of detail across 13 category 1 sites and 13 category 2 sites. The category 1 sites required the highest level of assessment and included all of the parameters in section 4.4 of BS 5837:2012<sup>2</sup>. The category 2 sites required a lower level of detail with a reduced number of parameters. However, important factors including physiological condition, structural condition, root protection area, and retention category were addressed.





**Figure 1:** Aerial image of the study area. The category 1 sites are highlighted in blue, the category 2 sites are highlighted in orange. The 26 sites are labelled from A to Z. Image (ARUP, 2023).

### 3. Context

#### 3.1. Trees, Woodlands, and Statutory Designations

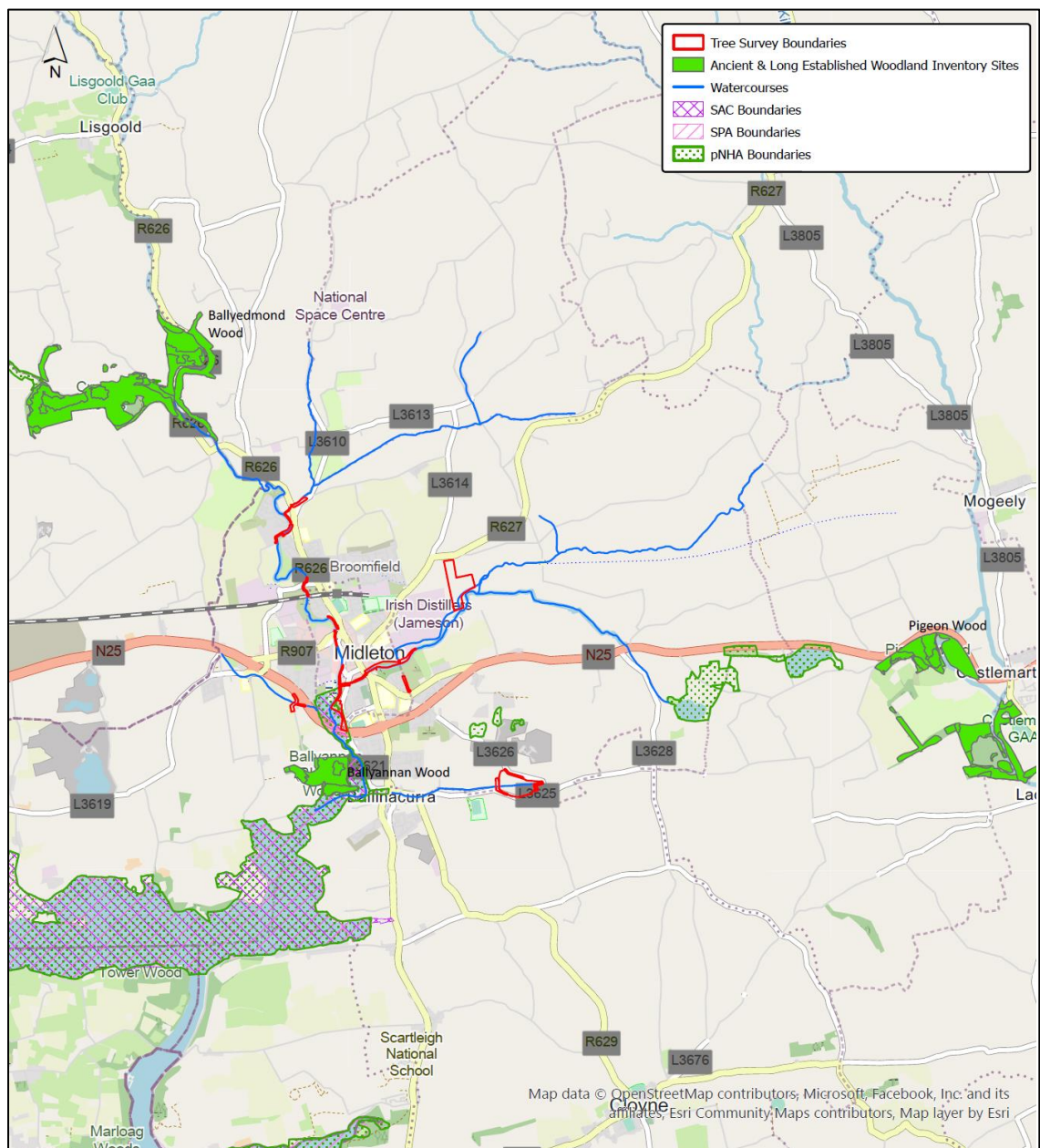
- 3.1.1. Trees are assets that form an integral element of the green infrastructure in urban, peri-urban, and rural settings. Trees and woodlands can contribute to water quality improvement, wildlife habitat, flood mitigation, erosion reduction, climate change mitigation, recreation and tourism, human well-being, and create features of cultural significance<sup>3</sup>. In the Cork County Development Plan 2022 – 2028<sup>4</sup>, Cork CC the contracting authority has described Midleton as an area that will continue to grow and expand in the coming years. However, the importance of identifying, retaining, and enhancing the existing green infrastructure within the town footprint has been highlighted as an important objective.
- 3.1.2. The primary method of protecting habitats and species in Ireland is through designation of conservation areas. Designation of conservation areas is undertaken by the National Parks & Wildlife Service (NPWS) and is required under European and national legislation. The three primary designations include Natural Heritage Areas (NHAs), Special Areas of Conservation (SACs), and Special Protection Areas (SPAs). Proposed NHAs (pNHAs) have the same level of significance for wildlife and habitat but have not yet been statutorily designated. There are 5 pNHAs, 1 SAC and 1 SPA in proximity to the tree survey boundaries. Additionally there are three woodland sites which were included in the Ancient & Long Established Woodland Inventory by Perrin & Daly in 2010<sup>5</sup> (see figure 2 below).
- 3.1.3. The relevant conservation and woodland sites in proximity (within 3.5 km) to the scheme boundaries are listed below (the site name, the designation and site code are listed):
- a) Ballynaclashy House, North Of Midleton pNHA (000099).
  - b) Loughs Aderry And Ballybutler pNHA (000446).
  - c) Carrigshane Hill pNHA (001042).
  - d) Great Island Channel pNHA (001058).
  - e) Leamlara Wood pNHA (001064).
  - f) Great Island Channel SAC (001058).
  - g) Cork Harbour SPA (004030).
  - h) Ballyannon Wood PAW<sup>5</sup> (1330).
  - i) Ballyedmond Wood LEW(I)<sup>5</sup> (1332).

<sup>3</sup> Value of Nature to Canadians Study Taskforce 2017. *Completing and Using Ecosystem Service Assessment for Decision-Making: An Interdisciplinary Toolkit for Managers and Analysts*. Ottawa, ON: Federal, Provincial, and Territorial Governments of Canada.

<sup>4</sup> Cork County Council (2022). *Volume 4 South Cork – Cork County Development Plan 2022*. <https://www.corkcoco.ie/en/resident/planning-and-development/cork-county-development-plan-2022-2028/volume-four>

<sup>5</sup> PAW: possible ancient woodland, LEW(I): long established woodland for which no evidence of antiquity could be found in older documentation.



j) Pigeon Wood LEW(I)<sup>5</sup> (1313).

**Figure 2:** map of the scheme illustrating the spatial relationship between the scheme boundaries, the conservation areas and the woodland sites. The scheme boundaries are highlighted in red, the watercourses are the blue lines. The boundaries of the conservation areas are symbolized with magenta cross hatch, pink hatch and green dot filled polygons. The bright green polygons symbolize the PAW<sup>5</sup> & LEW(I)<sup>5</sup> sites by Perrin & Daly in 2010<sup>6</sup>.

<sup>6</sup> Perrin, P.M. & Daly, O.H. (2010). *A provisional inventory of ancient and long-established woodland in Ireland*. Irish Wildlife Manuals, No. 46. National Parks and Wildlife Service, Department of the Environment, Heritage and Local Government, Dublin, Ireland.

### 3.2. Planning Policy

- 3.2.1. In Ireland the primary framework for regulating development is the Planning & Development Act, 2000. Under the act local authorities have a responsibility to put in place development plans within which, among other things, trees, woodlands, and hedgerows of social, amenity and environmental value are identified, and their preservation prioritized. The Tree Preservation Order (TPO) is one of the most comprehensive forms of statutory protection for trees and woodland features. The regulations relating to trees with a TPO are outlined in section 205 of the Planning & Development Act, 2000. One of the key points is that unauthorized damage or removal of a tree with a TPO is a criminal offence.
- 3.2.2. The Cork County Development Plan 2022 was reviewed to determine if there are any potential TPOs within the scheme boundaries. No references to TPOs were discovered in the landscape and biodiversity sections for the Midleton area. Under the heading Tree Protection Orders in the Heritage and Conservation section of the Cork County Council website<sup>7</sup>, visitors are redirected to the Tree Register of Ireland for information on heritage trees in the County. The list of trees were assessed to evaluate if any reside in Midleton. None of the trees on the list appear to have an address in Midleton Town. The closest tree appears to be a *Magnolia Campbellii* with an address at Belgrove, Great Island, Co. Cork approximately 5 km southwest of Midleton Town. Further verification of the location of any potential TPOs may be required before the detailed design stage of the scheme.

## 4. The Trees

### 4.1. General Description of the Trees

- 4.1.1. In total 592 arboricultural features were included in the field assessment. Five hundred and forty one individual trees, 33 hedges, 14 tree groups and 4 woodlands. The total number of trees including all of the individual trees within the tree groups, woodlands and hedges is estimated to be 1545. However, this figure does not include a tree count for the broadleaf forestry (PW4587) in sites V – W. The forestry plantation is approximately 8 ha in area and is currently at the thicket stage. Based on a plant spacing of 2 m x 1.5 m which is the standard spacing for broadleaf establishment in Ireland, there could be in the region of 26,400 trees in the 8 ha plot. The total figure is based on an initial stocking of 3,300 plants per hectare, however it is unlikely that the site remains fully stocked due to a percentage of plant failures.
- 4.1.2. The most common species identified were sycamore (*Acer pseudoplatanus*), ash (*Fraxinus excelsior*), and alder (*Alnus glutinosa*) together accounting for 57.1% of the surveyed tree population. Most of the survey work was undertaken in the riparian zone along the watercourses where alder and ash dominated. Horse chestnut (*Aesculus hippocastanum*), pedunculate oak (*Quercus robur*), small -

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<sup>7</sup> <https://www.corkcoco.ie/en/resident/heritage-and-conservation/natural-heritage>

leaved Lime (*Tilia cordata*), and common beech (*Fagus sylvatica*) were also commonly encountered, together accounting for 15.7% of the surveyed tree population. Many of the pedunculate oak trees were established on the boundary hedges in the agricultural fields, particularly in sites V – W. There were also a number of high value oaks in the Midleton Lodge Park and site Q at the back of the GAA pitches.

- 4.1.3. The majority of the trees (43.8%) included in the assessment are in the early-mature life stage. Twenty nine percent of the trees were assessed as mature and 26% were in the young to semi-mature life stage. Six trees were in the mature notable life stage and there were two ancient beech trees. Mature notable trees have local significance because of their dimensions and large girth. They may not have reached the ancient or veteran life stage but are the most likely candidates to progress to those life stages. The two ancient trees are common beech (*Fagus sylvatica*) established on private property . Tree number 4250 has a girth of approximately 4.5 m at breast height and tree number 4574 measures approximately 4.08 m at breast height. Using Lonsdale's (2013)<sup>8</sup> chart of girth in relation to age and developmental classification both trees are in the ancient stage of their life cycle.
- 4.1.4. Fifty five percent of the surveyed tree population were categorized as B, category B trees are of a moderate quality with a remaining life expectancy of at least 20 years. The downgrading of a tree from category A to category B may be the result of structural or physiological defects, however their retention value should not be underrated. Thirty seven percent of the trees were categorized as category C, category C trees are of the lowest quality with an estimated remaining life expectancy of least 10 years. One of the ancient beech trees (PT4574) was assessed as C3, the structural and physiological condition of the tree was poor. Most of the crown was missing, there was approximately 10% live crown remaining. However, the tree has merit as a conservation feature because of its hollow trunk and the natural decay process providing habitat for associated life forms.
- 4.1.5. Thirty eight trees were categorized as A, category A trees are of the highest quality with an estimated remaining life expectancy of at least 40 years. Fifty percent ( $n = 17$ ) of the category A trees are located in the Baby Walk, Midleton Lodge Park area. The other 50% are scattered throughout the study area, most being established in the rear gardens of private dwelling houses.

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<sup>8</sup> Lonsdale, David (2013). *Ancient and other veteran trees: further guidance on management*. The tree council.





**Figure 3:** aerial image of a portion of the site highlighting the tree survey boundaries and a selection of the oldest trees.

#### 4.2. Tree Population Analysis Tables

4.2.1. The tables below provide a brief analysis of the surveyed tree population:

Survey Level	Number of Features
Category 1 arboricultural features	433
Category 2 arboricultural features	159
<b>Grand Total</b>	<b>592</b>

**Table 3:** number of features assessed within the category 1 boundaries and category 2 boundaries.

Arboricultural Feature	Number of Features	Percentage of the Total
Private Tree	277	47%
Public Tree	264	45%
Private Hedge	27	5%
Private Tree Group	9	2%
Public Hedge	6	1%
Public Tree Group	5	1%
Private Woodland	4	1%
<b>Total</b>	<b>592</b>	<b>100%</b>

**Table 4:** *list of arboricultural features included in the tree survey and their land ownership assessment.*

Tree Species (Common name – Scientific name)	Number of Trees	Percentage of the Total
Sycamore - <i>Acer pseudoplatanus</i>	158	29.2%
Ash - <i>Fraxinus excelsior</i>	91	16.8%
Alder - <i>Alnus glutinosa</i>	60	11.1%
Horse chestnut - <i>Aesculus hippocastanum</i>	35	6.5%
Pedunculate oak - <i>Quercus robur</i>	26	4.8%
Small - leaved Lime - <i>Tilia cordata</i>	13	2.4%
Common Beech - <i>Fagus sylvatica</i>	11	2.0%
Osier Willow - <i>Salix viminalis</i>	11	2.0%
Large - leaved Lime - <i>Tilia platyphyllos</i>	11	2.0%
Sitka spruce - <i>Picea sitchensis</i>	8	1.5%
Weeping willow - <i>Salix babylonica</i>	8	1.5%
Norway maple - <i>Acer platanoides</i>	8	1.5%
Scots pine - <i>Pinus sylvestris</i>	7	1.3%
Western Balsam - poplar - <i>Populus trichocarpa</i>	6	1.1%
Black poplar - <i>Populus nigra</i>	5	0.9%
Elder - <i>Sambucus nigra</i>	5	0.9%
Hawthorn - <i>Crataegus monogyna</i>	5	0.9%
Lawson cypress - <i>Chamaecyparis lawsoniana</i>	5	0.9%
Whitebeam - <i>Sorbus aria</i>	4	0.7%
Leyland cypress - <i>Cupressocyparis leylandii</i>	4	0.7%
Silver Birch - <i>Betula pendula</i>	4	0.7%
Cherry spp - <i>Prunus spp</i>	4	0.7%
Wild Cherry - <i>Prunus avium</i>	4	0.7%
Tasmanian blue gum - <i>Eucalyptus globulus</i>	3	0.6%
Aspen - <i>Populus Tremula</i>	3	0.6%
Wild Crab - <i>Malus sylvestris</i>	3	0.6%
Grey willow - <i>Salix cinerea</i>	3	0.6%
Crimson King' Norway maple - <i>Acer platanoides</i> 'Crimson King'	3	0.6%
Rowan - <i>Sorbus aucuparia</i>	3	0.6%
Copper Beech - <i>Fagus sylvatica</i> 'Purpurea'	3	0.6%

Tree Species (Common name – Scientific name)	Number of Trees	Percentage of the Total
Elm spp - Ulmus spp	2	0.4%
Italian Alder - Alnus cordata	2	0.4%
Western red cedar - Thuja plicata	2	0.4%
Cabbage palm - Cordyline australis	2	0.4%
London Plane - Platanus x hispanica	2	0.4%
Eucalyptus spp	1	0.2%
Grey poplar - Populus x canescens	1	0.2%
Atlas Cedar - Cedrus atlantica	1	0.2%
Pine spp - Pinus spp	1	0.2%
Hazel - Corylus avellana	1	0.2%
Purpled leaved Plum - Prunus cerasifera Nigra	1	0.2%
Wych Elm - Ulmus glabra	1	0.2%
Japanese maple - Acer palmatum	1	0.2%
Field maple - Acer campestre	1	0.2%
Lombardy poplar - Populus nigra 'Italica'	1	0.2%
Narrow - leaved ash - Fraxinus angustifolia	1	0.2%
Monterey Pine - Pinus radiata	1	0.2%
Beech spp - Fagus spp	1	0.2%
Oriental spruce - Picea orientalis	1	0.2%
Brewers (Weeping) spruce - Picea breweriana	1	0.2%
Chilean myrtle - Luma apiculata	1	0.2%
Laurel spp	1	0.2%
<b>Grand Total</b>	<b>541</b>	<b>100.0%</b>

**Table 5:** list of tree species included in the field assessment, with the number of trees in each species and the percentage of the total. The species list includes the individually surveyed trees only. It is unlikely that there are any additional tree species in the tree groups or woodlands.

Life Stage	Number of Trees	Percentage of the Total
Early-mature	259	43.8%
Mature	171	28.9%
Semi-mature	142	24.0%
Young	12	2.0%
Mature notable	6	1.0%
Ancient	2	0.3%
<b>Grand Total</b>	<b>592</b>	<b>100.0%</b>

**Table 6:** life stage assessment including the number of trees in each developmental stage and the percentage of the total.

Tree Vitality Assessment	Number of Trees	Percentage of the Total
Normal	372	62.8%
Fair	116	19.6%
Good	81	13.7%



Tree Vitality Assessment	Number of Trees	Percentage of the Total
Poor	21	3.5%
Dead	2	0.3%
<b>Grand Total</b>	<b>592</b>	<b>100.0%</b>

**Table 7:** vitality class assessment with the number of trees in each class and the percentage of the total. It is important to note that there are many standing dead elm trees within the tree survey boundaries. These trees were not included in the survey assessment, however their locations were recorded and their positions are plotted on the tree constraints plans.

Retention Category	Number of Trees	Percentage of the Total
B	327	55.2%
C	218	36.8%
A	38	6.4%
U	9	1.5%
<b>Grand Total</b>	<b>592</b>	<b>100.0%</b>

**Table 8:** retention category assessment with the number of trees in each category and the percentage of the total.

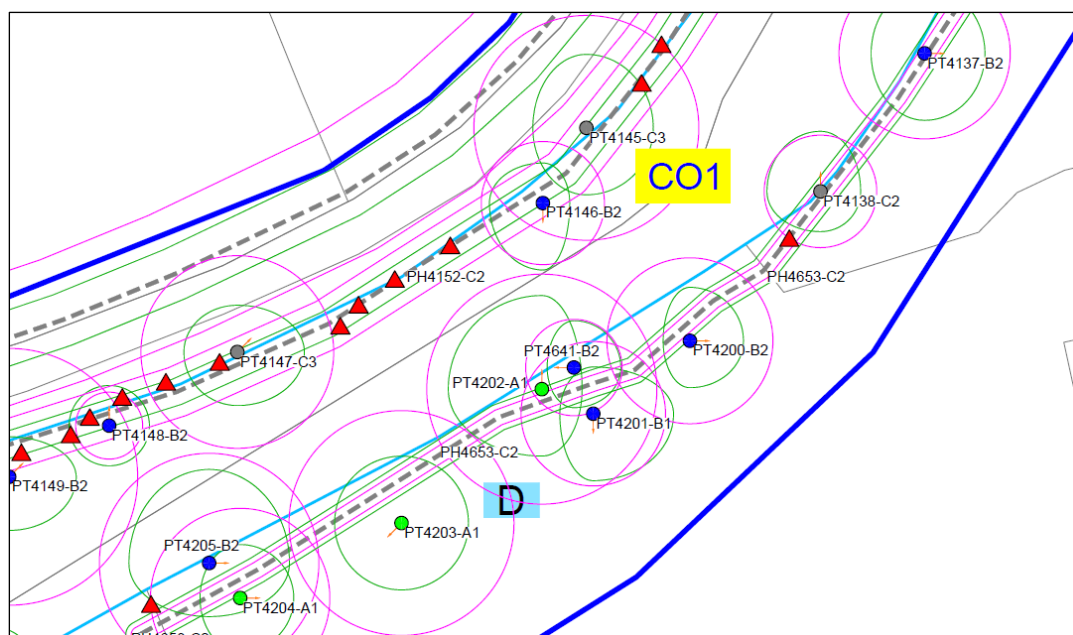
Retention Sub-Category	Number of Trees	Percentage of the Total
2 – landscape qualities	569	96.1%
3 – cultural/conservation value	17	2.9%
1 – arboricultural value	6	1.0%
<b>Grand Total</b>	<b>592</b>	<b>100.0%</b>

**Table 9:** retention sub-category assessment with the number of trees in each category and the percentage of the total.

## 5. Design & Construction Phase

### 5.1. General Mitigation

- 5.1.1. The tree data collected for this report and the associated tree constraints plans can be used to inform the design process. The ideal scenario would be to design a scheme where all of the existing tree population is retained and integrated into the flood defense works. However, it is highly unlikely that this is a realistic option, and some tree removal will be necessary to facilitate the development.
- 5.1.2. The root protection areas for the recorded trees have been highlighted with magenta on the Tree Constraints Plans (TCPs). The Root Protection Area (RPA) is the area around the tree which needs to remain undisturbed to maintain the trees viability. The green polygons on the TCPs represent the actual crown dimensions of each surveyed tree (see figure 4 below for an example). Incursions into the RPAs and canopy extents should generally be avoided. Canopy measurements were not required for the category 2 sites but the RPAs are present.



**Figure 4:** extract from the Tree Constraints Plan. The magenta circle is the root protection area (RPA). The polygon with the green outline is the canopy extent of the tree. The point inside the canopy polygon indicates the position of the tree stem, the tree tag number and its category are fixed to the point. The dark blue line indicates the tree survey boundary and its category. The watercourse outline is highlighted with cyan and the watercourse identifier is labelled in yellow.

- 5.1.3. There are 9 category U trees, 218 category C features and approximately 120 – 150 standing dead elms (symbolized with red triangles on the TCPs, see figure 4 above for an example) in the project area. The dead elms and category U trees are not suitable for long term retention, many are standing dead in roadside hedges and their removal is considered necessary for health & safety reasons. The category C trees are of the lowest quality and are of limited merit. Where there are conflicts between trees and the proposed scheme the category U, category C and dead trees should be prioritized for removal.
- 5.1.4. Category B trees make up the largest proportion of the surveyed tree population with 327 arboricultural features. Category B trees are of a moderate quality. However, their condition can often be improved through pruning or other remedial arboricultural techniques. The retention of category B trees should be prioritized during the design process.
- 5.1.5. In total there are 38 category A trees, category A trees are of the highest quality and their removal should be avoided. Retention of all of the category A trees should be of the highest priority.
- 5.1.6. There are 66 category 1 arboricultural features, 9 category 2 features and approximately 1.5 ha of scrub within the boundaries of the Cork Harbour SPA and the Great Island Channel SAC. The qualifying interest for the SPA are wetland and waterbirds. Of the twenty three bird species listed on the National Parks & Wildlife

Service website<sup>9</sup>, three of the bird species are associated with trees. The Cormorant (*Phalacrocorax carbo*), the Grey Heron (*Ardea cinerea*) and the Shelduck (*Tadorna tadorna*). All of these bird species nest in trees and in the case of the Shelduck they have been associated with nesting in tree hollows. If trees or vegetation established within the boundaries of the designated protected sites require removal, it will need careful consideration.

## 5.2. Notable, Veteran & Ancient Trees

5.2.1. Veteran and ancient trees have important conservation value. It is very rare for any tree to reach the ancient stage of their life cycle and when classifying a tree as ancient it is dependent on species. For example, an oak tree would not be considered ancient until it reaches 400 years old, for a yew tree it is 800 years old, and for a birch tree it could be 150 years old. Old veteran and ancient trees are associated with increased habitat value and complex associations with other life forms e.g., fungi, invertebrates, epiphytes, birds, mammals, amphibians, and reptiles. Their age and habitat features increase their biological, aesthetic, and cultural interest.

5.2.2. The table below highlights a selection of the oldest trees within the scheme boundaries. Their life stage assessment relates to Lonsdale's 2013<sup>8</sup> chart of girth in relation to age and developmental classification, and their selection is based on their stem diameter being > 1000 mm at breast height. The list corresponds to the same trees that were highlighted in Figure 3 of this report.

Water course Identifier	Tree Tag	X	Y	Stem Dia (mm)	Tree Species	Life stage	Retention Category
C01	PT4238	587785.3	574075.6	1040	Horse chestnut - Aesculus hippocastanum	Mature notable	B2
C01	PT4250	587848.9	573825.6	1432	Common Beech - Fagus sylvatica	Ancient	A3
C05	T4399	588400.1	573454.6	1070	Horse chestnut - Aesculus hippocastanum	Mature notable	A2
C05	T4404	588385.1	573421.9	1360	Sycamore - Acer pseudoplatanus	Mature notable	A2

<sup>9</sup> <https://www.npws.ie/protected-sites/spa/004030>

Water course Identifier	Tree Tag	X	Y	Stem Dia (mm)	Tree Species	Life stage	Retention Category
C05	T4425	588554.1	573471.1	1120	Sycamore - Acer pseudoplatanus	Mature notable	A2
C05	T4435	588532.2	573449.8	1010	Common Beech - Fagus sylvatica	Mature notable	B2
C05	T4441	588529.5	573472.7	1070	Small - leaved Lime - Tilia cordata	Mature notable	A2
C09	PT4574	589296.6	574699.4	1300	Common Beech - Fagus sylvatica	Ancient	C3
C05	PT4624	588725.5	573505.9	1000	Black poplar - Populus nigra	Mature	B2

**Table 10:** list of a selection of the oldest trees included in the field assessment. The watercourse identifier, the tree tag number, the location in ITM coordinates, the stem diameter and the tree species are listed for each tree. The life-stage classification and retention category are also included.

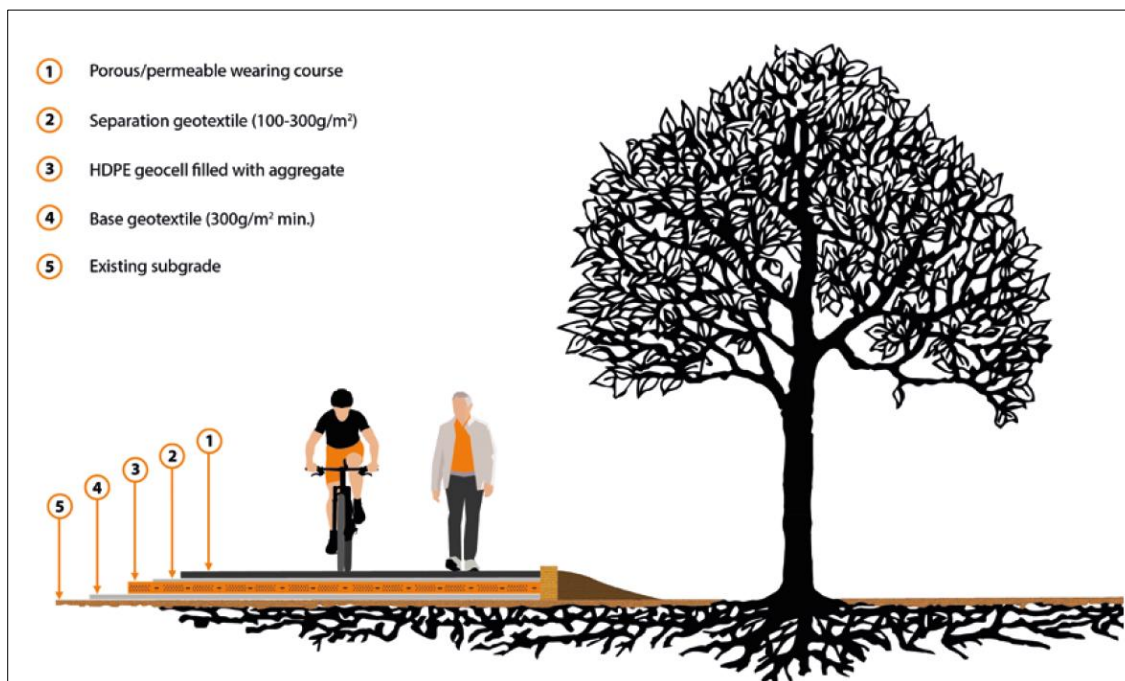
5.2.3. The trees in table 10 above have local significance and important conservation value. However, other mature trees, notably in the Midleton Lodge Park and the gardens of private dwelling houses in site D, and site Q, should not be regarded as expendable. One of the ancient trees (PT4250) in table 10 above is established in a private garden in The Woodlands estate. The position of the tree stem is outside of the tree survey boundary but the RPA is inside the predicted working area. The extent of the trees root system may require more detailed investigation if the proposed scheme works are in conflict with the RPA.

### 5.3. No Dig Construction

5.3.1. Ninety percent of a tree's root system is located in the upper metre of the soil profile<sup>10</sup>. The extent of the RPA represents the area where the highest concentration of the root system is found. Excavations of the soil profile within the RPA can result in root severance which in turn can result in tree decline/death or structural damage resulting in tree failure. Cellular confinement systems are an

<sup>10</sup> Roberts, John, Jackson, Nick & Smith, Mark (2006). *Tree roots in the Built Environment*. Arboricultural Association.

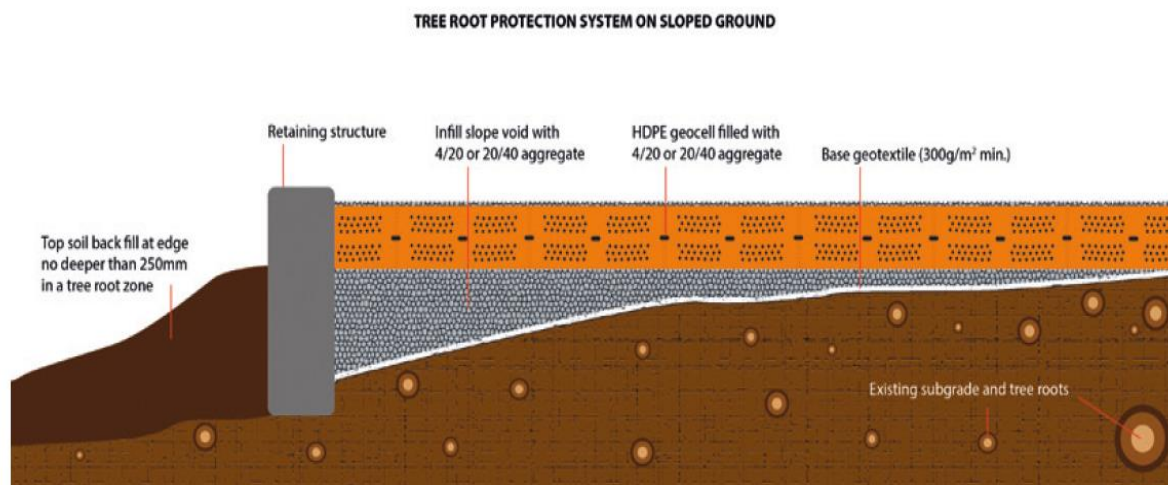
engineering solution which can be utilized to install new hard surfacing within the RPAs of retained trees. The cellular confinement system is a three-dimensional structure that provides strength to confined soils, distributes loads laterally, reduces point loads, and reduces compaction of the underlying soil. Prevention of soil compaction in the RPA is vital to prevent root death or inhibiting new root development.



**Figure 5:** section of the basic approach to using cellular confinement systems around trees. Image (Rose 2020<sup>11</sup>)

- 5.3.2. Geocell systems that are intended for use around trees should be made from high density polyethylene (HDPE). Geocells that are made from flexible geotextiles are not recommended as they tend to deform. When the geocell sheets are spread on the ground the 3-dimensional matrix can be infilled with a range of materials but around trees the preferred aggregate is clean angular stone (4/20 or 20/40). The use of a stone infill promotes permeability and allows water ingress and gaseous diffusion into and out of the soil. The final wearing course also needs to be a permeable material which allows water and air to flow to the tree's root system. Some examples are porous asphalt, loose gravel, resin bound gravel or permeable block paving.

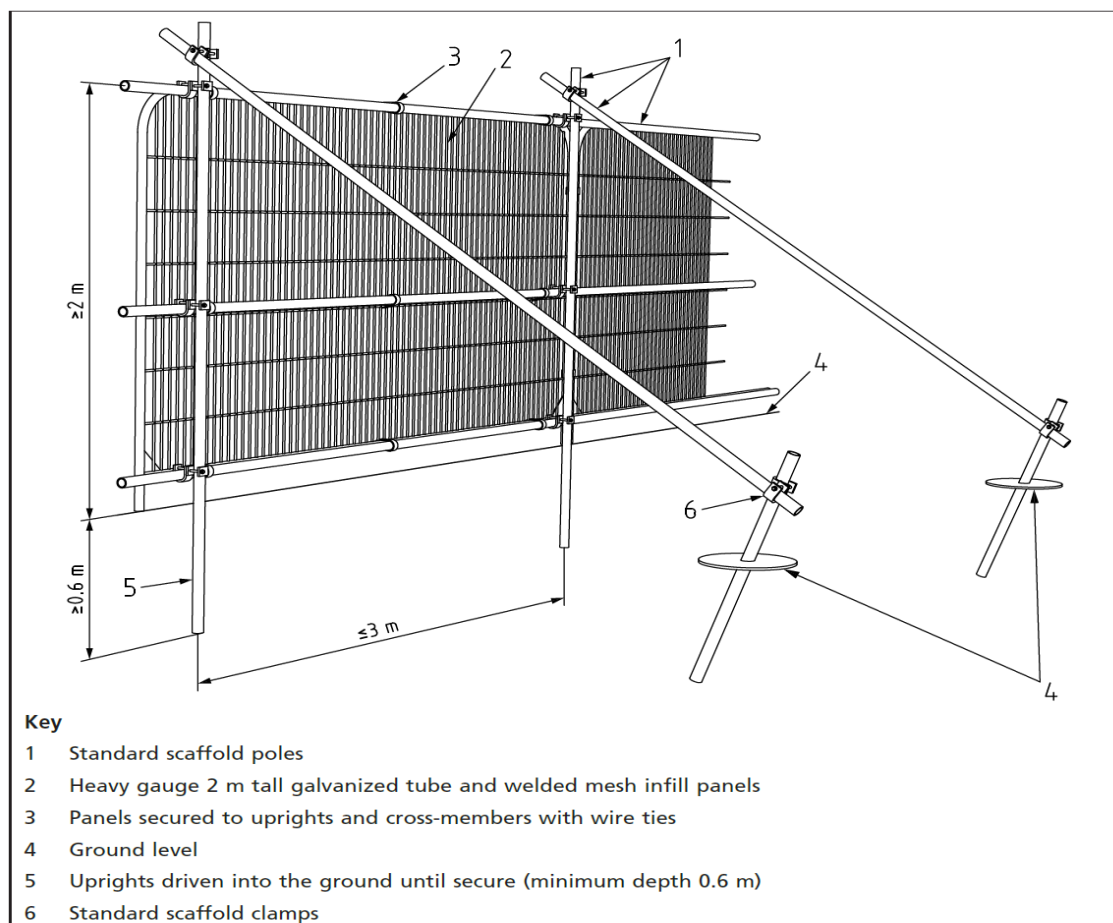
<sup>11</sup> Rose, Ben (2020). *Guidance Note 12: The use of Cellular Confinement Systems near Trees: Guide to good Practice*. Arboricultural Association.



**Figure 6:** example of how a cellular confinement system can be installed on sloping or uneven ground. Image (Rose 2020<sup>11</sup>).

- 5.3.3. If the scheme design intends to incorporate cellular confinement systems as an engineering solution more detailed arboricultural method statements may be required at the construction and implementation stage.
- 5.4. **Tree Protection Measures**
- 5.4.1. The use of barrier fencing is the standard tree protection method for construction projects. The protective fencing is designed to create a construction exclusion zone around the retained trees to protect the critical root mass from negative impacts. The layout of the protective fencing will be decided at the preliminary design stage and detailed on tree protection plans.
- 5.4.2. The default specification for the protective barriers is described in BS 5837:2012, and an example is provided in figure 7 below. The fencing configuration should consist of steel mesh panels attached to vertical and horizontal scaffold framework. The fencing setup should be well braced to resist impacts and would need to be in place for the duration of the construction phase.





**Figure 7: British Standard BS 5837: TREE PROTECTIVE FENCING.**

## 5.5. Tree Works

- 5.5.1. The preliminary list of recommended tree management works is outlined in the tree survey schedule in Appendix 3 of this report. The list details the observations made during the field assessment and the tree management works based on the current condition of the tree(s) and the surrounding land use. Some tree removals have been recommended e.g., standing dead trees next to targets. Additionally, other tree management suggestions include ivy management, removal of tree ties/stakes, crown raising to improve headroom, deadwood management and protecting stems from grass cutting operations. The tree management recommendations are preliminary only, the full tree works schedule to facilitate the construction of the scheme can be developed at the detailed design stage of the project.
- 5.5.2. All tree works should be undertaken in accordance with the recommendations given in BS 3998:2010 Tree work - Recommendations<sup>12</sup> and current Health & Safety guidelines. Preceding any manual management work on trees, the tree and its surroundings should be assessed for the presence of any seasonal nesting sites, potential roost features or protected species. In accordance with Section 40 of the

<sup>12</sup> The British Standards Institution (2010) *BS 3998:2010 Tree work – Recommendations*. BSI Standards Limited.

Wildlife Act 1976 (as amended 2000) the tree works, and removal of hedges and ivy should be scheduled outside of the nesting season (1<sup>st</sup> of March to 31<sup>st</sup> of August). The removal of ivy should be undertaken with handsaws (silky saws) to avoid bark and trunk damage.

## 6. Replacement Tree Planting

- 6.1.1. Where trees are lost to facilitate the scheme or through tree management decisions, adequate compensation measures will need to be put in place. The quantity of trees being lost to facilitate the scheme development is currently not known. An assessment of the potential tree loss will need to be undertaken at an appropriate time in the project life cycle. Design changes may be necessary to reduce the number of trees being lost. Where direct loss of trees is unavoidable compensation measures will be recommended and can be integrated into a landscape plan.

## 7. Conclusions

- 7.1.1. The tree data presented in this report can be used to inform the scheme design and mitigate against any unnecessary tree loss.
- 7.1.2. Retention of the category A trees, the old trees and the category B trees should be of the highest priority.
- 7.1.3. An impact assessment on the surveyed tree population should be undertaken at an appropriate time in the project life cycle. Conflicts between the proposed development layout and the tree population should be assessed in detail.
- 7.1.4. The arboricultural impact assessment should be supplemented by Tree Protection Plans (TPPs). The TPPs will detail the trees to be removed to facilitate the scheme development and the layout of the tree protection fencing for the construction phase.
- 7.1.5. An outline construction stage tree management strategy should be developed before any site works begin. The tree management strategy will address some or all of the following: pre commencement site briefing, pre-development tree works, site supervision, protective fencing, ground protection, boundary treatments, services and drainage, and arboricultural monitoring.
- 7.1.6. The potential loss of trees and vegetation to facilitate the construction of the scheme is currently unknown. Where tree loss does occur, adequate compensation measures will need to be put in place so there is no negative impact on the green infrastructure in Midleton Town.



# Appendix 1

## Glossary of Terms

TERM	EXPLANATION
<b>Ancient Tree</b>	Tree that has passed beyond maturity and is old, or aged, in comparison with other trees of the same species. Typically, many centuries old (depending on species), the tree will have local significance and conservation is paramount.
<b>Ancient woodland</b>	Areas of woodland believed to have remained continuously wooded since 1660.
<b>Arboriculture</b>	The cultivation, management, and study of individual trees, tree groups and other perennial woody plants.
<b>Arboriculturist/Arborist</b>	Person who is skilled or knowledgeable in the field of arboriculture. Traditionally someone who cares for, manages, and cultivates trees.
<b>Ash dieback</b>	Disease of ash trees caused by the invasive fungal pathogen <i>Hymenoscyphus fraxineus</i> (previously known as <i>Chalara fraxinea</i> ).
<b>Basal sweep/sweep</b>	Tree whose main stem is inclined from the vertical at ground level, then curved upward so that the rest is more upright.
<b>Branch</b>	Any woody stem that is clearly not the main stem (seedling axis) by virtue of its size and orientation, typically larger than a shoot or twig.
<b>Branch union</b>	Structural feature in the architecture of a tree's crown at which one woody stem divides into two.
<b>Breast height</b>	The conventional height (1.3 m above ground level) at which the diameter or girth of the main stem of a tree is measured.
<b>Broadleaf</b>	Trees with leaves that are broad, flat, and thin with networked veins. The tree crowns are generally rounded when mature and more or less spreading if open grown. For woodland to be defined as broadleaf, no more than 10% of the canopy should consist of conifers.
<b>BS 5837 (2012)</b>	<i>'Trees in relation to design, demolition, and construction - Recommendations'</i> . The British Standard giving guidelines to avoid excessive conflicts between trees and new developments.
<b>BS 3998 (2010)</b>	<i>'Tree work – Recommendations'</i> The British Standard regulating some of the technical operations carried out by tree work contractors.
<b>Bud</b>	Small lateral or terminal protuberance on the stem of a plant that may develop into a flower, leaf, or shoot.
<b>Canopy</b>	Of a single tree its crown, emphasizing its spreading and enclosing character. Of a forest or woodland, the crowns of the larger trees considered collectively.

<b>Cavity</b>	Void in a woody stem or root that may or may not be open to the exterior. If large enough a cavity could potentially be a structural defect.
<b>Construction exclusion zone (CEZ)</b>	Area based on the root protection area from which access is prohibited for the duration of a project.
<b>Co-dominant</b>	Within the crown of a tree branches or stems of approximately equal size above a union. Stems that divide into a gentle U-shape tend to be stronger, unions with a V-shape are considered inferior.
<b>Coppice</b>	Adventitious shoots arising from the stump of a tree, which give rise to a second (or subsequent) generation multi stem tree. Historic silvicultural system used to produce small diameter wood.
<b>Crown</b>	The branches, shoots and foliage of a tree considered collectively.
<b>Crown architecture</b>	The structural features e.g., branching angle and twig density that determine the appearance of the crown of a tree.
<b>Crown break</b>	Zone of the stem from where many or all of the lowest framework branches arise.
<b>Crown cleaning</b>	Tree work operation to remove dead, dying, damaged or diseased branches from the crown of a tree.
<b>Crown raise/crown lifting</b>	The removal of lower branches from a tree to increase the headroom to the base of the crown.
<b>Crown retrenchment</b>	Dieback of the outer crown, as a result of a combination of physiological and biomechanical changes associated with growth and aging.
<b>Defect</b>	Injuries, growth patterns, decay or other conditions that reduce the tree's structural strength.
<b>Diameter (dbh)</b>	The diameter of the main stem of a tree measured at breast height.
<b>Die-back</b>	Progressive death of shoots or roots starting at the extremities.
<b>Formative pruning</b>	Pruning of young trees to improve their form and avoid future structural defects.
<b>Fungi</b>	Organisms of several evolutionary origins, most of which are multicellular and grow as branched filamentous cells (hyphae) within dead organic matter or living organisms. Wood decay fungi are specialized forms which have co-evolved with woody plants.
<b>Fungal fruit body</b>	The reproductive (spore-bearing) part of a fungus, taking various forms depending on species e.g., mushroom like, bracket like etc.
<b>Girth</b>	The measurement of the circumference of the tree stem normally taken at breast height.

<b>Included bark</b>	Is bark that is embedded between a branch and its parent stem or between codominant stems. It decreases the strength of the union.
<b>Main stem</b>	The stem of a woody plant that arises at ground level and supports the crown.
<b>Method statement</b>	Detailed written description of how a particular task or activity should be carried out to ensure that a particular outcome or standard is reached, to take account of any associated risk etc.
<b>Necrosis</b>	The death of a specific area of living tissue.
<b>No-dig</b>	Surface built largely on top of the ground, whose thickness is minimized by the use of a geocell or similar ground reinforcement cellular system to spread load. The aim is generally to avoid damage to underlying tree roots.
<b>Notable tree</b>	Tree that is locally significant because it is special or particularly large compared with the trees growing around it.
<b>Occlusion</b>	The continued radial growth of new wood, including wound wood, that gradually grows over wounds to the woody parts of trees.
<b>Physiological condition</b>	Qualitative term from BS 5837 (2012), on a scale of good to dead, broadly equivalent to vigour or vitality.
<b>Plant morphology</b>	The form of a plant, particularly variation in structure, external form, and development.
<b>Pruning</b>	The cutting off or cutting back of tree stems or branches to direct growth, remove an obstructing or diseased part, abate a nuisance, reduce tree risk, assist establishment, increase longevity, simulate natural damage, maintain ornamental value, improve timber quality, enhance habitat for wildlife etc.
<b>Root protection area (RPA)</b>	Layout design tool indicating the minimum area around a tree deemed to contain sufficient roots and rooting volume to maintain the tree's viability, and where the protection of the roots and soil structure is treated as a priority.
<b>Shoot</b>	The stem of a plant (normally very small diameter) with an appreciable rate of extension growth, in woody plants typically young enough to be furnished with leaves. Shoot extension growth rate can be used as an indicator of tree vitality.
<b>Stem</b>	In a tree, the principal portion of the woody structure (i.e., the trunk), or one of a number of such portions with similar size and status.
<b>Stub/stub cuts</b>	That part of a decapitated or broken branch protruding beyond the branch collar. Stub cuts are pruning cuts

	which are made at some length beyond the branch bark ridge and are associated with poor quality tree work.
<b>Tree constraints plan</b>	Plan detailing the tree-related constraints to a proposed development, as envisaged in BS 5837 (2012).
<b>Tree assessment plan</b>	Plan detailing the tree dimensions including the root protection areas with the proposed development plan layout. The plan is used to assess the impacts/conflicts on the tree population.
<b>Tree removal &amp; protection plan</b>	Plan highlighting the trees for removal and the layout of the tree protection fencing for the construction stage of a development.
<b>Tree preservation order (TPO)</b>	An order made by a local authority or other planning authority to protect a tree, group of trees, area of trees or woodland under section 205 of the Planning and Development Act 2000.
<b>Tree work</b>	Term used to describe the manual operations used to manage trees e.g., tree pruning, tree climbing & aerial pruning. Normally undertaken by a tree surgeon or tree work contractor.
<b>Trunk</b>	The lower part of the main stem of a tree, visually well-defined and usually lacking side branches.
<b>Veteran tree</b>	Tree that has features associated with advanced chronological age for its species. The age of the tree might be as much as 800 years for yew or as little as 150 years for birch. Veteran features include hollowing, cavities, cracks, splits, other crevices, partial collapse, deadwood, loose bark, water pockets, sap runs fungal fruit bodies and epiphytes, all of which create habitat for wildlife. Veteran trees have conservation significance.

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# Appendix 2

**Schedule 1: The parameters of the tree survey for category 1 sites (BS 5837:2012).**

Parameter	Brief description
<b>Watercourse Identifier</b>	Relevant watercourse identifier for each surveyed feature.
<b>Tree Tag Number</b>	Physical reference number attached to individual trees or groups of trees, prefixed by T (Tree), TG (Tree Group), W (Woodland), H (Hedge) or S (Shrub) to indicate the type of feature. <b>* indicates stem position estimated.</b>
<b>Tree Count</b>	Number of trees of a particular species recorded within a group feature, with the default value of 1 for single trees.
<b>Species</b>	Common name followed by the scientific name.
<b>Height (m)</b>	Tree height to the nearest metre, measured with a Haglofs Clinometer or estimated.
<b>Stem Count</b>	Number of stems. Stem count indicates whether the tree is single-stemmed or multi-stemmed and informs the RPA calculation.
<b>Stem Diameter</b>	Stem diameter measured at 1.5m above ground level in accordance with Annex C of BS5837:2012 (# if the stem diameter is estimated).
<b>Crown Spread</b>	Distance from the stem position to the crown periphery in the four cardinal directions, north, east, south, and west.
<b>First Significant Branch Height (FSB-m) – Direction of growth</b>	Distance between the ground and lowest significant branch and the direction of growth.
<b>Canopy Clearance Height (m)</b>	Distance between the ground and the lowest point of the crown periphery, estimated to the nearest half metre.
<b>Life-stage</b>	Young, Semi-mature, Early-mature, Mature, Late Mature, Ancient or Veteran
<b>Physiological Condition</b>	<p><b>Good</b> – a tree with little or no obvious physiological defects; leaf density and colour is typical for the species, bud, flower, and fruit production are good and there are no signs of dieback anywhere around the tree.</p> <p><b>Normal</b> – normal for the species, the life-stage, and the growing conditions. The tree may have some minor physiological defects. The leaf density and vigour might be slightly below optimal, but the inferior physiological state is presumed to be temporary. The tree should have the potential to reach a ‘good’ physiological state.</p> <p><b>Fair</b> – a tree with moderate physiological defects; leaf density is less than typical for the species, leaf cover is chlorotic, bud, flower or fruit</p>

Parameter	Brief description
	<p>production are deficient, there are signs of dieback in the crown, there is a moderate degree of deadwood within the crown.</p> <p><b>Poor</b> – a tree with major or multiple physiological defects; evidence of extensive crown thinning, bud, flower, or fruit production is poor or missing, there are signs of advanced dieback throughout the crown, there is extensive or major deadwood throughout the crown.</p> <p><b>Dead</b> – a tree that has died due to either old age, drought, disease, pest infestation, physical damage to the main stem or rooting system, or a combination of these factors.</p>
<b>Structural Condition</b>	<p><b>Good</b> – the tree shows no tendencies for weakness, there are no visible defects on the tree. The branch unions appear sound. The tree does not have any risky growth patterns, diseases or fungal activity that might affect tree stability. The life-stage of the tree may be young or semi-mature and it is too small to pose any risk.</p> <p><b>Moderate</b> – the tree may have minor defects and an inferior growth pattern e.g., codominant stems. The branch unions will generally appear good, but some smaller branches may have bark inclusions. Minor deadwood may be present in the crown. The trunk and bark may have minor damage but should be occluding.</p> <p><b>Fair</b> – there will be a number of visible defects on the tree. Bigger branches may be poorly attached and have defective unions with bark inclusions. Numerous dead branches in the crown and possibly some dieback in the upper crown. Potentially some trunk damage with a visible cavity. The tree may need remedial tree work if it is established close to a target.</p> <p><b>Poor</b> – the tree has a number of major defects, large branches with included unions. Partially fractured limbs hanging in the crown and a large amount of big diameter deadwood. The tree may be partially uprooted or there are visible signs of decay in the large roots, or evidence of fungal activity. If the tree is established close to a target it is highly likely that it will require remedial tree work or removal. Most likely to be a category U tree.</p> <p><b>Dead</b> – the entire tree is dead and is still standing (snag). If the snag is near a target categorize as U and highlight for removal or partial removal.</p>
<b>Observations</b>	General description of the tree or tree group, including basic features and morphology, structural and physiological condition, growing conditions, and surroundings.
<b>Recommendations</b>	Management recommendations for tree works to address immediate unacceptable risks, or to facilitate development proposals.
<b>Estimated Remaining Contribution (years)</b>	Estimated number of years for which the tree will continue to make a positive contribution to the site, banded as <10, 10+yrs, 20+yrs, 40+.
<b>Retention Category</b>	Quality and value category as defined in table 1 of BS5837:2012.



Parameter	Brief description
<b>Retention Sub-category</b>	One or more sub-categories as defined in table 1 of BS5837:2012.
<b>RPR (m)</b>	Root Protection Radius, the radius of the root protection area in metres, when it is plotted as a circle around the tree stem.
<b>RPA (m<sup>3</sup>)</b>	Root protection area calculated from the stem diameter according to the formula in BS5837:2012. The RPA is the minimum area required to maintain tree viability. The RPA will be highlighted with magenta on the tree survey plans.

**Schedule 2: The parameters of the tree survey for category 2 sites.**

Parameter	Brief description
<b>Watercourse Identifier</b>	Relevant watercourse identifier for each surveyed feature.
<b>Tree Tag Number</b>	Physical reference number attached to individual trees or groups of trees, prefixed by T (Tree), TG (Tree Group), W (Woodland), H (Hedge) or S (Shrub) to indicate the type of feature. <b>* indicates stem position estimated.</b>
<b>Tree Count</b>	Number of trees of a particular species recorded within a group feature, with the default value of 1 for single trees.
<b>Species</b>	Common name followed by the scientific name.
<b>Height (m)</b>	Tree height to the nearest metre, measured with a Haglofs Clinometer or estimated.
<b>Life-stage</b>	Young, Semi-mature, Early-mature, Mature, Late Mature, Ancient or Veteran
<b>Physiological Condition</b>	<p><b>Good</b> – a tree with little or no obvious physiological defects; leaf density and colour is typical for the species, bud, flower, and fruit production are good and there are no signs of dieback anywhere around the tree.</p> <p><b>Normal</b> – normal for the species, the life-stage, and the growing conditions. The tree may have some minor physiological defects. The leaf density and vigour might be slightly below optimal, but the inferior physiological state is presumed to be temporary. The tree should have the potential to reach a ‘good’ physiological state.</p> <p><b>Fair</b> – a tree with moderate physiological defects; leaf density is less than typical for the species, leaf cover is chlorotic, bud, flower or fruit production are deficient, there are signs of dieback in the crown, there is a moderate degree of deadwood within the crown.</p> <p><b>Poor</b> – a tree with major or multiple physiological defects; evidence of extensive crown thinning, bud, flower, or fruit production is poor or</p>

Parameter	Brief description
	<p>missing, there are signs of advanced dieback throughout the crown, there is extensive or major deadwood throughout the crown.</p> <p><b>Dead</b> – a tree that has died due to either old age, drought, disease, pest infestation, physical damage to the main stem or rooting system, or a combination of these factors.</p>
<b>Structural Condition</b>	<p><b>Good</b> – the tree shows no tendencies for weakness, there are no visible defects on the tree. The branch unions appear sound. The tree does not have any risky growth patterns, diseases or fungal activity that might affect tree stability. The life-stage of the tree may be young or semi-mature and it is too small to pose any risk.</p> <p><b>Moderate</b> – the tree may have minor defects and an inferior growth pattern e.g., codominant stems. The branch unions will generally appear good, but some smaller branches may have bark inclusions. Minor deadwood may be present in the crown. The trunk and bark may have minor damage but should be occluding.</p> <p><b>Fair</b> – there will be a number of visible defects on the tree. Bigger branches may be poorly attached and have defective unions with bark inclusions. Numerous dead branches in the crown and possibly some dieback in the upper crown. Potentially some trunk damage with a visible cavity. The tree may need remedial tree work if it is established close to a target.</p> <p><b>Poor</b> – the tree has a number of major defects, large branches with included unions. Partially fractured limbs hanging in the crown and a large amount of big diameter deadwood. The tree may be partially uprooted or there are visible signs of decay in the large roots, or evidence of fungal activity. If the tree is established close to a target it is highly likely that it will require remedial tree work or removal. Most likely to be a category U tree.</p> <p><b>Dead</b> – the entire tree is dead and is still standing (snag). If the snag is near a target categorize as U and highlight for removal or partial removal.</p>
<b>Observations</b>	General description of the tree or tree group, including basic features and morphology, structural and physiological condition, growing conditions, and surroundings.
<b>Retention Category</b>	Quality and value category as defined in table 1 of BS5837:2012.
<b>Retention Sub-category</b>	One or more sub-categories as defined in table 1 of BS5837:2012.
<b>RPR (m)</b>	Root Protection Radius, the radius of the root protection area in metres, when it is plotted as a circle around the tree stem.
<b>RPA (m<sup>3</sup>)</b>	Root protection area calculated from the stem diameter according to the formula in BS5837:2012. The RPA is the minimum area required to maintain tree viability. The RPA will be highlighted with magenta on the tree survey plans.

Table 1 Cascade chart for tree quality assessment

Category and definition	Criteria (including subcategories where appropriate)			Identification on plan
Trees unsuitable for retention (see Note)				
<b>Category U</b> 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"><li>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 (e.g. where, for whatever reason, the loss of companion shelter cannot be mitigated by pruning)</li><li>Trees that are dead or are showing signs of significant, immediate, and irreversible overall decline</li><li>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</li></ul> <p><i>NOTE Category U trees can have existing or potential conservation value which it might be desirable to preserve; see 4.5.7.</i></p>			See Table 2
	1 Mainly arboricultural qualities	2 Mainly landscape qualities	3 Mainly cultural values, including conservation	
Trees to be considered for retention				
<b>Category A</b> 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 dominant 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)	See Table 2
<b>Category B</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 remediable defects, including unsympathetic past management and storm damage), such that they are unlikely to be suitable for retention for 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	See Table 2
<b>Category C</b> Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150 mm	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 benefits	Trees with no material conservation or other cultural value	See Table 2

# Appendix 3

Water course Identifier	Feature ID	No of Trees	Stem Count	Stem Diameter (mm)	Tree Species	Height (m)	Crown Spread N (m)	Crown Spread E (m)	Crown Spread S (m)	Crown Spread W (m)	FSB ht (m)	FSB Dir	Canopy clearance ht (m)	Life stage	Vitality Class	Structural Condition	Observations	Preliminary management recommendations	Remaining contribution in yrs	Retention Category	Retention Sub category	RPR-Root Protection Radius (m)	RPA-Root Protection Area (m²)
C05	PT3124	1	5	867	Sycamore - Acer pseudoplatanus	17	4.5	4.5	4	3	3	N	4	Early-mature	Normal	Moderate	Tree is established at the edge of the construction road. Multi stem at ground level, unions and stems are obscured by ivy.	Ivy management to facilitate future tree inspections	20 +	B	2	10.4	340
C05	PT3125	1	1	260	Sycamore - Acer pseudoplatanus	15	1	1	4	1	2	S	2	Early-mature	Normal	Moderate	Partial codominance 0.5 m from ground level, minor ivy coverage. Crown is heavily suppressed by neighbouring trees, branches are extending to the south.	No work presently required	10 +	C	2	3.1	30.6
C05	PT3126	1	2	340	Sycamore - Acer pseudoplatanus	14	6	2	2	5	6	N	4	Early-mature	Normal	Fair	Codominant stems at ground level, union appears good. Heavy lean over construction road, headroom looks OK.	No work presently required	10 +	C	2	4.1	52.3
C05	PT3127	1	1	210	Sycamore - Acer pseudoplatanus	14	2	3	3	1	0	S	1	Semi-mature	Fair	Fair	Codominant stems 0.5 m from ground level, union appears good. Crown is heavily suppressed by neighbouring trees, poor crown form.	No work presently required	10 +	C	2	2.5	19.9
C05	PT3128	1	2	562	Norway maple - Acer platanoides	17	6	3	3	5	2	NW	4	Early-mature	Normal	Moderate	Codominant stems at ground level, moderate union. Further codominance higher in the crown, V shaped union with partial bark inclusion. Crown is partially suppressed by neighbouring trees to the south, extending to the north.	No work presently required	20 +	B	2	6.7	142.9
C05	PT3129	1	2	233	Horse chestnut - Aesculus hippocastanum	6	4	1	1	3	1	W	1	Semi-mature	Fair	Fair	Codominant stems at ground level, union is not visible. Crown is heavily suppressed by neighbouring trees, poor crown form.	Removal recommended	10 +	C	2	2.8	24.6
C05	PT3130	1	2	202	Sycamore - Acer pseudoplatanus	12	4	1	1	2	1	S	1	Semi-mature	Fair	Fair	Codominant stems at ground level, union is not visible. Crown is heavily suppressed by neighbouring trees, light deadwood in the crown.	Removal recommended	10 +	C	2	2.4	18.5
C05	PT3131	1	3	598	Sycamore - Acer pseudoplatanus	17	6	4	6	3	3	S	2.5	Early-mature	Normal	Moderate	Codominant stems 0.5 m from ground level, stems and unions are partially obscured by ivy. Heavy ivy higher in the crown. Crown is partially suppressed by neighbouring trees.	Ivy management to facilitate future tree inspections	20 +	B	2	7.2	161.7
C05	PT3132	1	1	580	Norway maple - Acer platanoides	17	6	4	5	4	2	N	2.5	Mature	Normal	Moderate	Minor ivy coverage on the lower trunk. Codominance 1.5 m from ground level and 2.5 m from ground level, unions appear good. Crown is partially suppressed by neighbouring trees.	No work presently required	20 +	B	2	7	152.2
C05	PT3133	1	2	290	Alder - Alnus glutinosa	15	3	3	3	3	1	N	1	Early-mature	Normal	Moderate	Codominant stems at ground level, union is not visible. Minor ivy coverage on the stems.	No work presently required	20 +	B	2	3.5	38
C05	PT3134	1	1	280	Alder - Alnus glutinosa	15	3	3	3	3	3	N	3	Early-mature	Normal	Good	Straight stem with a clear leader. Crown is partially suppressed by neighbouring trees, some very light deadwood in the crown.	No work presently required	20 +	B	2	3.4	35.5
C05	PT3135	1	1	740	Black poplar - Populus nigra	25	9	8	8	2	4	N	5	Mature	Normal	Good	Trunk is obscured by ivy. Visible branch unions appear good. Limbs to the north are over extended and overhanging plant. Crown is partially suppressed by neighbouring trees.	Ivy management to facilitate future tree inspections,Reduce end weight on over extended limbs	20 +	B	2	8.9	247.7
C05	PT3136	1	1	460	Black poplar - Populus nigra	25	5	3	5	2	4	S	3	Mature	Normal	Good	Straight stem with a clear leader, ivy on the lower stem. Crown is suppressed by neighbouring trees.	Ivy management to facilitate future tree inspections	20 +	B	2	5.5	95.7
C05	PT3137	1	1	760	Black poplar - Populus nigra	25	8	2	8	7	5	S	4	Mature	Normal	Moderate	Stem is obscured by ivy, lower branch unions are not visible. Codominance higher in the crown, unions appear good. Some over extension in the limbs to the north.	Ivy management to facilitate future tree inspections,Reduce end weight on over extended limbs	20 +	B	2	9.1	261.3
C03	PT4113	1	1	410	Alder - Alnus glutinosa	14	4	4	4	4	3	E	3	Early-mature	Normal	Good	Straight stem with a clear leader, minor ivy coverage. Crown breaks around 3.5 m from ground level, visible branch unions generally appear good. Crown has a good even spread, appears to be sufficient headroom over the road. Leaf area and vigour appear good.	No work presently required	40 +	A	2	4.9	76
C03	PT4114	1	3	443	Elder - Sambucus nigra	8	3	3	3	2	1	N	1	Mature	Normal	Moderate	Codominant stems 0.5 m from ground level and 1 m from ground level, unions are not visible. Branch unions are obscured by ivy. Crown has been heavily topped in the past, regrowth from the pruning wounds has partially restored the crown. Leaf area and vigour appear normal.	No work presently required	20 +	B	2	5.3	89
C03	PT4115	1	1	270	Sitka spruce - Picea sitchensis	15	2.5	2.5	2.5	2.5	8	N	9	Early-mature	Dead	Dead	Stem is heavily obscured by ivy, no foliage left in the crown. Standing dead.	Removal recommended	< 10	U	2	3.2	33



Water course Identifier	Feature ID	No of Trees	Stem Count	Stem Diameter (mm)	Tree Species	Height (m)	Crown Spread N (m)	Crown Spread E (m)	Crown Spread S (m)	Crown Spread W (m)	FSB ht (m)	FSB Dir	Canopy clearance ht (m)	Life stage	Vitality Class	Structural Condition	Observations	Preliminary management recommendations	Remaining contribution in yrs	Retention Category	Retention Sub category	RPR-Root Protection Radius (m)	RPA-Root Protection Area (m²)
C03	T4117	1	1	350	Ash - Fraxinus excelsior	10	4.5	4.5	3	4.5	1	S	1	Semi-mature	Good	Moderate	Codominance 1 m from ground level and 2 m from ground level, lower union has a partial bark inclusion, higher unions appear good. Further codominance higher in the crown, moderate union. Branch unions generally appear good. Leaf area and vigour appear normal. Sufficient crown clearance over the road.	No work presently required	20 +	B	2	4.2	55
C01	PT4135	1	3	231	Ash - Fraxinus excelsior	12	3.5	3.5	2	3	3	E	1.5	Semi-mature	Fair	Moderate	Codominant stems 0.5 m from ground level, unions are not visible, stems are obscured by ivy. Codominance in the crown, moderate unions. Light dieback around the crown periphery.	No work presently required	10 +	C	2	2.8	24
C01	PT4136	1	1	320	Sycamore - Acer pseudoplatanus	14	4	4.5	4	4.5	1	W	1.5	Early-mature	Normal	Moderate	Stem and limb unions are heavily obscured by ivy. Codominance 3 m from ground level, union is not visible. Crown has a good even spread, visible branch unions generally appear good. One of the lower limbs is extending over the water course. Leaf area and vigour appear normal.	Ivy management to facilitate future tree inspections	20 +	B	2	3.8	46
C01	PT4137	1	2	531	Ash - Fraxinus excelsior	14	5	4.5	5	4	2	E		Early-mature	Fair	Moderate	Lower trunk is not visible, heavily obscured by ivy, bramble, and other vegetation. Codominance 3 m from ground level, unions are not visible. Light deadwood accumulating in the inner crown, very minor dieback in the crown periphery. Leaf area is below optimal but the vigour generally appears normal.	Ivy management to facilitate future tree inspections	20 +	B	2	6.4	128
C01	PT4138	1	2	353	Elder - Sambucus nigra	5	4.5	3	3	4	1	N	1.5	Mature	Normal	Moderate	Lower stem is not visible, heavily obscured by ivy and a hedge. Northern stem has a strong lean. Branch unions are obscured by ivy. Leaf area and vigour appear normal.	No work presently required	10 +	C	2	4.2	56
C01	PT4139	1	1	470	Sycamore - Acer pseudoplatanus	8	3	4.5	2	4	2	NE	1.5	Early-mature	Fair	Moderate	Stem is obscured by ivy, codominance 1 m from ground level, union is not visible. Branch unions are obscured by ivy. Leaf area is fair, mild tar spot, vigour is below optimal.	Ivy management to facilitate future tree inspections	10 +	C	2	5.6	100
C01	PT4140	1	1	550	Sycamore - Acer pseudoplatanus	16	5	4	6	4	4	S	4	Mature	Normal	Moderate	Trunk is heavily obscured by ivy, codominance 1.5 m from ground level, union is not visible. Most branch unions are obscured by ivy, the visible ones generally appear good. Crown has a good spread, leaf area and vigour appear normal.	Ivy management to facilitate future tree inspections	20 +	B	2	6.6	137
C01	PT4141	1	1	250	Hawthorn - Crataegus monogyna	8	2.5	2	1.5	2.5	4	N	3.5	Early-mature	Fair	Moderate	Stem and branch unions are heavily obscured by ivy. Crown is partially suppressed by neighbouring trees. Leaf area is fair but the vigour appears normal, fruit production appears normal.	Ivy management to facilitate future tree inspections	10 +	C	2	3	28
C01	PT4142	1	1	390	Sycamore - Acer pseudoplatanus	16	4	5	5	2	5	S	7	Early-mature	Normal	Moderate	Stem is heavily obscured by ivy and has a slight lean to the northeast. Crown is partially suppressed by neighbouring trees, extending to the south and east. Branch unions are not visible. Leaf area and vigour appear normal.	Ivy management to facilitate future tree inspections	20 +	B	2	4.7	69
C01	PT4143	1	1	270	Sycamore - Acer pseudoplatanus	14	6	4	4	2.5	9	N	10	Semi-mature	Normal	Moderate	Wounds at the base of the stem, partially occluded. Sharp curve in the lower stem, minor sweep higher up. Crown breaks around 9 m from ground level, branch unions generally appear good. Branches extending to the north are beginning to over extend. Leaf area and vigour appear normal.	No work presently required	10 +	C	2	3.2	33
C01	PT4144	1	1	530	Sycamore - Acer pseudoplatanus	14	3	5	5	4	3	S	4	Early-mature	Normal	Moderate	Trunk is obscured by ivy, codominant stems 1.5 m from ground level, moderate union. Further codominance 2.5 m from ground level, union is not visible. Light deadwood accumulating in the inner crown. Branches to the south are beginning to over extend. Leaf area and vigour appear normal.	Ivy management to facilitate future tree inspections	20 +	B	2	6.4	127
C01	PT4145	1	1	700	Ash - Fraxinus excelsior	20	5.5	5	5	4	4	SE	4.5	Mature	Poor	Fair	Trunk and limbs are heavily obscured by ivy. Tree appears to have been heavily pruned in the past, likely to have been historic storm damage. Dieback is progressing around the crown periphery, numerous dead branches. Sprouting on the limbs and inner crown indicating retrenchment. Leaf area is poor but the vigour appears normal.	Ivy management to facilitate future tree inspections	10 +	C	3	8.4	222
C01	PT4146	1	1	380	Sycamore - Acer pseudoplatanus	14	3	2	5	4	3	S	2.5	Early-mature	Good	Moderate	Stem and branch unions are heavily obscured by ivy. Asymmetric crown extending to the south and west. Leaf area and vigour appear normal.	Ivy management to facilitate future tree inspections	20 +	B	2	4.6	65

Water course Identifier	Feature ID	No of Trees	Stem Count	Stem Diameter (mm)	Tree Species	Height (m)	Crown Spread N (m)	Crown Spread E (m)	Crown Spread S (m)	Crown Spread W (m)	FSB ht (m)	FSB Dir	Canopy clearance ht (m)	Life stage	Vitality Class	Structural Condition	Observations	Preliminary management recommendations	Remaining contribution in yrs	Retention Category	Retention Sub category	RPR-Root Protection Radius (m)	RPA-Root Protection Area (m²)
C01	PT4147	1	1	600	Ash - Fraxinus excelsior	18	3.5	5	4	4	9	NE	9	Mature	Poor	Fair	Trunk is heavily obscured by ivy, evidence of hollowing. Codominance 3.5 m from ground level, union is not visible. Dieback is progressing around the crown periphery, numerous dead branches. Sprouting in the inner crown, indicating retrenchment. Leaf area is poor, the vigour appears normal.	Ivy management to facilitate future tree inspections	10 +	C	3	7.2	163
C01	PT4148	1	1	210	Sycamore - Acer pseudoplatanus	11	3	3	3	3	2	N	2	Semi-mature	Good	Good	Straight stem, minor ivy coverage. Minor codominance in the crown, union appears good, branch unions generally appear good. Leaf area and vigour appear good, minor tar spot.	No work presently required	20 +	B	2	2.5	20
C01	PT4149	1	1	800	Osier Willow - Salix viminalis	6	3	5	4	3	2	NE	1.5	Mature	Normal	Fair	Trunk is heavily obscured by ivy, breaks into two major limbs 2 m from ground level, union is not visible. Evidence of historic storm damage. Heavily topped in the past. Regrowth from the pruning wounds is attempting to restore the crown. Leaf area and vigour appear good for the crown size.	No work presently required	20 +	B	2	9.6	289
C01	PT4150	1	2	269	Sycamore - Acer pseudoplatanus	12	3	4	4	4	3	E	3	Semi-mature	Normal	Moderate	Stem is heavily obscured by ivy, codominance 1 m from ground level, union is not visible. Branch unions are obscured by ivy. Leaf area and vigour appear normal.	Ivy management to facilitate future tree inspections	10 +	C	2	3.2	33
C01	PT4151	1	1	280	Ash - Fraxinus excelsior	12	2	2.5	2.5	2	3	SE	4	Semi-mature	Poor	Poor	Stem is heavily obscured by ivy, codominance 6 m from ground level, union is not visible. Dieback is progressing around the crown periphery, sprouting in the inner crown. Leaf area is fair but the vigour appears normal.	Ivy management to facilitate future tree inspections	10 +	C	2	3.4	35
C01	PH4152			160	English elm - Ulmus procera, Sycamore - Acer pseudoplatanus, Grey willow - Salix cinerea, Osier Willow - Salix viminalis, Alder - Alnus glutinosa, Hawthorn - Crataegus monogyna	10					0		0	Semi-mature	Fair	Fair	Natural hedge feature between the road and the water course, likely to have been self seeded. Elms are standing dead, road side vegetation is maintained.	No work presently required	10 +	C	2	1.9	12
C01	PT4153	1	1	270	Ash - Fraxinus excelsior	16	2	4	2	2	7	E	9	Semi-mature	Fair	Moderate	Stem has a natural lean towards the water course. Crown breaks around 7 m from ground level, unions appear good. Asymmetric crown extending to the south east. Dieback is progressing around the crown periphery, numerous dead branches. Sprouting in the inner crown, indicating retrenchment. Leaf area is fair but the vigour appears normal.	No work presently required	10 +	C	2	3.2	33
C01	PT4154	1	1	400	Sycamore - Acer pseudoplatanus	10	4	5	3	3	3	E	3.5	Early-mature	Poor	Fair	Stem and branch unions are heavily obscured by ivy. Codominance in the crown, union is not visible. Severe dieback in the crown, only 10% live crown remaining.	Removal recommended	< 10	U	2	4.8	72
C01	PT4155	1	1	330	Sycamore - Acer pseudoplatanus	15	4.5	2.5	3	4	3	SE	1.5	Early-mature	Poor	Fair	Stem is heavily obscured by ivy, codominance in the crown, union is not visible. Severe dieback in the crown, one of the main stems is dead. Light epicormic growth around the base of the stem. Leaf area is poor.	Removal recommended	< 10	U	2	4	49
C01	PT4156	1	2	573	Alder - Alnus glutinosa	13	4	3	3	3	5	E	4	Early-mature	Poor	Fair	Codominant stems at ground level, union is not visible. Northern stem is dead, dieback in the crown of the eastern stem. Leaf area is poor, only 25% live crown remaining.	Remove deadwood	10 +	C	2	6.9	149
C01	PT4157	1	1	420	Alder - Alnus glutinosa	14	4	4	4	2	5	E	6	Early-mature	Normal	Moderate	Stem has a natural lean over the water course, light ivy coverage. Crown breaks around 5 m from ground level, moderate branch unions. Branch unions higher in the crown generally appear good. Leaf area and vigour appear normal.	No work presently required	20 +	B	2	5	80
C01	PT4158	1	1	230	Alder - Alnus glutinosa	14	2	2	3	3	2	S	2	Semi-mature	Normal	Moderate	Cavity at the base of the stem, evidence of hollowing and decay of the heart wood, remaining sapwood appears sound. Stem has a natural lean over the water course. Leaf area and vigour appear normal.	No work presently required	10 +	C	2	2.8	24

Water course Identifier	Feature ID	No of Trees	Stem Count	Stem Diameter (mm)	Tree Species	Height (m)	Crown Spread N (m)	Crown Spread E (m)	Crown Spread S (m)	Crown Spread W (m)	FSB ht (m)	FSB Dir	Canopy clearance ht (m)	Life stage	Vitality Class	Structural Condition	Observations	Preliminary management recommendations	Remaining contribution in yrs	Retention Category	Retention Sub category	RPR-Root Protection Radius (m)	RPA-Root Protection Area (m²)
C01	PT4159	1	2	432	Alder - Alnus glutinosa	14	4	2	4	3	4	NW	4	Early-mature	Normal	Moderate	Codominant stems at ground level, union appears to have a partial bark inclusion. Moderate ivy coverage on the stem and crown, branch unions are not visible. Leaf area and vigour appear normal, light epicormic growth around the base of the stem. The tree is valued by the tree owner as a symbol of a significant life event.	No work presently required	20 +	B	3	5.2	84
C01	PT4160	1	1	380	Alder - Alnus glutinosa	14	3	3	4	4	3	N	1.5	Mature	Normal	Moderate	Stem has a natural lean to the south, crown is weighted to the south. Heavy ivy coverage, branch unions are obscured by ivy. Medium sized deadwood in the north side of the crown, leaf area and vigour in the rest of the crown appears good.	Ivy management to facilitate future tree inspections	20 +	B	2	4.6	65
C01	PT4161	1	1	360	Ash - Fraxinus excelsior	11	4	4	2	3	1	W	2.5	Early-mature	Normal	Moderate	Stem has a natural lean to the east and is heavily obscured by ivy. Branch unions are not visible. Leaf area and vigour appear normal.	Ivy management to facilitate future tree inspections	10 +	C	2	4.3	59
C01	PT4162	1	2	537	Alder - Alnus glutinosa	13	5	5	3	4	2	SE	3	Mature	Fair	Moderate	Codominant stems at ground level, union is not visible, stems are heavily obscured by ivy. Branch unions are obscured by ivy. One of the stems has been heavily topped, only a small portion of live crown remaining. Dieback is progressing in the crown of the other stem, leaf area is fair.	No work presently required	10 +	C	2	6.4	130
C01	PT4163	1	1	300	Alder - Alnus glutinosa	15	2	5	3	4	7	SE	8	Early-mature	Normal	Moderate	Stem is obscured by ivy and has a natural lean over the water course. Crown is partially suppressed by neighbouring trees, extending to the east. Branch unions generally appear good. Leaf area and vigour appear normal.	No work presently required	20 +	B	2	3.6	41
C01	PT4164	1	1	350	Sycamore - Acer pseudoplatanus	12	5	5	3	4	3	E	4	Early-mature	Normal	Fair	Strong sweep in the lower trunk and higher on the stem, moderate ivy coverage. Large fractured branch hanging in the crown from a neighbouring tree. Crown is partially suppressed by neighbouring trees. Leaf area and vigour appear normal.	Clean crown of deadwood and defective branches	10 +	C	2	4.2	55
C01	PT4165	1	1	500	Ash - Fraxinus excelsior	14	4.5	8	8	7	5	S	6	Early-mature	Normal	Fair	Sweep in the lower stem. Crown breaks around 5 m from ground level, main limbs are over extended. Leader has fractured and is hung up on the neighbouring tree. Light deadwood hanging in the crown. Leaf area and vigour appear normal.	Clean crown of deadwood and defective branches	10 +	C	2	6	113
C01	PT4166	1	1	290	Lawson cypress - Chamaecyparis lawsoniana	8	2	2	2	2	1	E	0.5	Semi-mature	Normal	Fair	Stem and branch unions are heavily obscured by ivy, codominance in the crown, union is not visible. Crown is suppressed by neighbouring tree. Foliage area is moderate but the vigour appears normal.	No work presently required	10 +	C	2	3.5	38
C01	PT4167	1	1	320	Alder - Alnus glutinosa	14	4	4	3.5	4	8	W	8	Early-mature	Normal	Moderate	Epicormic growth at the base of the stem, moderate ivy coverage. Crown breaks around 8 m from ground level, branch unions generally appear good. Crown is weighted over the water course, leaf area and vigour appear normal.	No work presently required	20 +	B	2	3.8	46
C01	PT4168	1	1	530	Alder - Alnus glutinosa	15	5	5	3	4	6	SW	7	Mature	Normal	Moderate	Codominant stems 1.5 m from ground level, union appears good. Both stems have a spiral growth pattern, branch unions generally appear good. Leaf area is moderate but the vigour appears normal.	No work presently required	20 +	B	2	6.4	127
C01	PH4169			160	Common Beech - Fagus sylvatica, Common Beech - Fagus sylvatica, Sycamore - Acer pseudoplatanus, Elder - Sambucus nigra, Alder - Alnus glutinosa	4					0		0	Young	Fair	Fair	Roadside boundary hedge of self seeded trees providing an under storey to the mature tree line.	No work presently required	10 +	C	2	1.9	12
C01	PT4170	1	1	430	Lawson cypress - Chamaecyparis lawsoniana	16	3.5	3.5	3.5	3.5	4	W	3	Mature	Normal	Moderate	Stem and branch unions are heavily obscured by ivy. Crown breaks around 4 m from ground level, light deadwood in the inner crown. Codominance higher in the crown, union is not visible. Foliage area and vigour appear normal.	Ivy management to facilitate future tree inspections	20 +	B	2	5.2	84
C01	PT4171	1	1	380	Lawson cypress - Chamaecyparis lawsoniana	15	1	2.5	1	2.5	4	E	4	Early-mature	Fair	Moderate	Stem and branch unions are heavily obscured by ivy. Crown breaks around 4 m from ground level, light deadwood in the crown. Crown is suppressed by neighbouring trees, leaf area and vigour are fair.	No work presently required	10 +	C	2	4.6	65



Water course Identifier	Feature ID	No of Trees	Stem Count	Stem Diameter (mm)	Tree Species	Height (m)	Crown Spread N (m)	Crown Spread E (m)	Crown Spread S (m)	Crown Spread W (m)	FSB ht (m)	FSB Dir	Canopy clearance ht (m)	Life stage	Vitality Class	Structural Condition	Observations	Preliminary management recommendations	Remaining contribution in yrs	Retention Category	Retention Sub category	RPR-Root Protection Radius (m)	RPA-Root Protection Area (m²)
C01	PT4172	1	1	570	Lawson cypress - Chamaecyparis lawsoniana	16	2	3.5	3.5	3.5	5	S	2.5	Mature	Normal	Moderate	Stem and branch unions are heavily obscured by ivy. Crown breaks around 4 m from ground level, light deadwood in the inner crown. Codominance higher in the crown, unions are not visible. Foliage area and vigour appear normal.	Ivy management to facilitate future tree inspections	20 +	B	2	6.8	147
C01	PT4173	1	1	280	Alder - Alnus glutinosa	14	2	4.5	4	2	9	E	9	Early-mature	Normal	Moderate	Stem has a natural lean over the water course and is heavily obscured by ivy. Crown breaks around 9 m from ground level, branch unions are not visible. Leaf area and vigour appear normal.	No work presently required	20 +	B	2	3.4	35
C01	PT4174	1	2	382	Alder - Alnus glutinosa	14	2	4.5	5	3	5	E	5.5	Early-mature	Normal	Moderate	Codominant stems at ground level, union is not visible. Crown breaks around 5 m from ground level, branch unions are obscured by ivy. Both stems have a natural lean over the water course. Leaf area and vigour appear normal.	No work presently required	20 +	B	2	4.6	66
C01	PT4175	1	2	471	Alder - Alnus glutinosa	14	5	5	7	4	2	S	1	Mature	Good	Moderate	Codominant stems at ground level, union is not visible, dense epicormic growth and ivy. Crown breaks around 2.5 m from ground level, branch unions are obscured by ivy, medium sized deadwood in the crown. Crown has a good spread, leaf area and vigour appear good.	No work presently required	20 +	B	2	5.7	100
C01	PT4176	1	1	750	Sycamore - Acer pseudoplatanus	19	7	8	7	7	3	S	2	Mature	Good	Moderate	Large lower trunk breaks into multiple stems 2.5 m from ground level, unions generally appear good. Appears to have been pollarded in the past. Codominance higher in the crown, one of the unions has a bark inclusion. Branch unions generally appear good. Crown has a good spread, leaf area and vigour appear good.	No work presently required	40 +	A	2	9	254
C01	PT4177	1	1	550	Lombardy poplar - Populus nigra 'Italica'	26	2.5	4	2.5	2.5	3	W	2	Mature	Normal	Moderate	Stem has a natural lean to the northeast towards the water course. Branch unions generally appear good, codominance higher in the crown, moderate union. Crown is partially suppressed by neighbouring tree, leaf area is moderate but the vigour appears normal.	No work presently required	20 +	B	2	6.6	137
C01	PT4178	1	1	900	Black poplar - Populus nigra	30	11	10	9	11	3	W	1	Mature	Good	Moderate	Large trunk, crown breaks around 3 m from ground level, branch unions generally appear good. Stem breaks into 4 major limbs around 10 m from ground level, unions are not visible. Limbs and branches are beginning to over extend. Medium sized fractured branch hanging in the crown. Leaf area and vigour appear good.	Clean crown of deadwood and defective branches	40 +	A	2	10.8	366
C01	PT4179	1	3	375	Sycamore - Acer pseudoplatanus	16	5	4	4	4	2	S	1	Early-mature	Normal	Moderate	Multi stem at ground level, unions are not visible, stems are heavily obscured by ivy. Branch unions are obscured by ivy. Leaf area and vigour appear normal.	No work presently required	10 +	C	2	4.5	64
C01	PT4180	1	1	380	Alder - Alnus glutinosa	8	3	3	4	3	1	SW	2.5	Early-mature	Fair	Fair	Stem and branches are heavily obscured by ivy. Dieback is progressing around the crown periphery, medium sized deadwood accumulating in the crown. Low leaf area but the vigour remains normal.	No work presently required	10 +	C	2	4.6	65
C01	PT4181	1	2	636	Sycamore - Acer pseudoplatanus	18	5	4	5	5	1	S	0.5	Early-mature	Good	Moderate	Codominant stems at ground level, union is not visible, stems are obscured by ivy. Branch unions are obscured by ivy. Leaf area and vigour appear good.	No work presently required	20 +	B	2	7.6	183
C01	PT4182	1	1	330	Sycamore - Acer pseudoplatanus	12	4	4	4	2.5	1	E	1	Semi-mature	Normal	Moderate	Moderate ivy coverage, codominant stems 1.5 m from ground level, union is not visible. Branch unions generally appear good. Leaf area and vigour appear normal.	No work presently required	20 +	B	2	4	49
C01	PT4183	1	1	260	Sycamore - Acer pseudoplatanus	13	1.5	4	4	3.5	2	SE	0.5	Semi-mature	Normal	Moderate	Minor ivy coverage, codominant stems 1.5 m from ground level, union has a bark inclusion. Crown is partially suppressed by neighbouring trees, weighted to the south and east. Leaf area and vigour appear normal.	No work presently required	20 +	B	2	3.1	31
C01	PT4184	1	3	396	Grey willow - Salix cinerea	7	6	6	5	6	0	W	0	Early-mature	Normal	Moderate	Codominant stems 0.5 m from ground level, moderate unions. Main stems break into multiple stems 1.5 m from ground level, unions generally appear good. Limbs are over extended and reaching for the ground which is normal for the species. Leaf area and vigour appear normal.	No work presently required	20 +	B	2	4.8	71

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C01	PT4185	1	3	511	Sycamore - Acer pseudoplatanus	14	4.5	5	5	5	1	S	0.5	Early-mature	Good	Moderate	Multi stem at ground level, unions are not visible. Large wound at the base of the southern stem, partially occluded. Branch unions generally appear good. Leaf area and vigour appear good.	No work presently required	20 +	B	2	6.1	118
C01	PT4186	1	1	450	Ash - Fraxinus excelsior	11	5	4	7	4	2	S	1.5	Early-mature	Normal	Moderate	Stem and branch unions are heavily obscured by ivy. Crown has been pruned in the past to prevent conflict with the overhead electricity network. Leaf area and vigour appear normal.	No work presently required	10 +	C	2	5.4	92
C01	PT4187	1	1	540	Ash - Fraxinus excelsior	20	5	6	7	6	5	W	0.5	Mature	Normal	Moderate	Trunk and stems are heavily obscured by ivy, codominance 1.5 m from ground level, union is not visible. Crown breaks around 5 m from ground level, unions generally appear good. Limbs are over extended, partially fractured branch hanging in the crown. Leaf area is moderate but the vigour appears normal.	No work presently required	20 +	B	2	6.5	132
C01	PT4188	1	2	468	Ash - Fraxinus excelsior	20	5	7	3.5	7	5	SE	1	Early-mature	Fair	Moderate	Codominant stems at ground level, union is not visible, epicormic growth around the base of the stem. Crown breaks around 5 m from ground level, unions are obscured by ivy. Leaf area is fair, signs of dieback around the crown periphery.	No work presently required	10 +	C	2	5.6	99
C01	PT4189	1	2	388	Alder - Alnus glutinosa	18	4	3	6	4	9	NE	10	Early-mature	Normal	Moderate	Codominant stems 1 m from ground level, union is obscured by ivy. Crown breaks around 9 m from ground level, unions are not visible. Crown is partially suppressed by neighbouring trees, leaf area is moderate but the vigour appears normal.	No work presently required	10 +	C	2	4.7	68
C01	PT4190	1	1	350	Ash - Fraxinus excelsior	17	3	2	3	5	2	NW	7	Early-mature	Fair	Fair	Moderate ivy coverage, codominance 2 m from ground level, union is not visible. Stem and crown are weighted over the water course. Crown is partially suppressed by neighbouring trees. Leaf area and vigour appear fair.	No work presently required	10 +	C	2	4.2	55
C01	PT4191	1	1	550	Ash - Fraxinus excelsior	20	6	6	4	7	5	E	3	Early-mature	Fair	Moderate	Trunk is obscured by ivy, codominance 2 m from ground level, union is not visible. Crown breaks around 5 m from ground level, branch unions are not visible. Medium sized deadwood in the crown. Leaf area and vigour appear fair.	No work presently required	10 +	C	2	6.6	137
C01	PT4192	1	1	400	Sycamore - Acer pseudoplatanus	17	3	3	4	4	4	W	1.5	Early-mature	Normal	Moderate	Stem and branch unions are heavily obscured by ivy, codominance higher in the crown, union is not visible. Leaf area and vigour appear normal.	No work presently required	20 +	B	2	4.8	72
C01	PT4193	1	2	417	Alder - Alnus glutinosa	15	3	4	5	5	5	E	7	Early-mature	Normal	Moderate	Codominant stems at ground level, union is not visible, stems are heavily obscured by ivy. Crown breaks around 5 m from ground level, branch unions are not visible. Leaf area and vigour appear normal.	No work presently required	10 +	C	2	5	79
C01	PT4194	1	2	377	Ash - Fraxinus excelsior	16	4	8	5	4	10	E	7	Early-mature	Fair	Fair	Codominant stems at ground level, union is not visible, stems are heavily obscured by ivy. Main stem is over extended to the east with a poor growth pattern. Crown is partially suppressed by neighbouring trees, leaf area is fair, and the vigour is generally fair.	No work presently required	10 +	C	2	4.5	64
C01	PT4195	1	3	485	Alder - Alnus glutinosa	16	3	4	6	5	1	E	2	Early-mature	Normal	Fair	Multi stem at ground level, unions are not visible, stems are heavily obscured by ivy. Crown breaks around 3 m from ground level, branch unions are not visible. Crown is partially suppressed by neighbouring trees, leaf area and vigour appear normal.	No work presently required	10 +	C	2	5.8	106
C01	PT4196	1	1	280	Sycamore - Acer pseudoplatanus	18	3	2	4	4	3	W	2	Early-mature	Normal	Moderate	Stem has sweep and a natural lean over the water course, heavy ivy coverage. Branches are extending over the water course, unions are not visible. Crown is partially suppressed by neighbouring trees, leaf area and vigour appear normal.	No work presently required	10 +	C	2	3.4	35
C01	PT4197	1	2	537	Alder - Alnus glutinosa	19	3	7	5	6	5	E	2.5	Mature	Normal	Moderate	Codominant stems at ground level, union is not visible, stems are heavily obscured by ivy. Crown is partially suppressed by neighbouring trees, western stem is weighted over the water course, eastern stem is weighted over the field. Branch unions are not visible. Leaf area and vigour generally appear normal.	No work presently required	20 +	B	2	6.4	130

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C01	PT4198	1	1	480	Ash - Fraxinus excelsior	20	5	6	6	8	8	NW	8	Early-mature	Normal	Moderate	Stem has a natural lean to the west over the water course, heavy ivy coverage. Branch unions are not visible. Signs of minor dieback around the crown periphery, light deadwood accumulating in the crown. The vigour of the leaves generally appears normal.	No work presently required	20 +	B	2	5.8	104
C01	PT4199	1	1	370	Alder - Alnus glutinosa	15	2	5	5	4	2	SE	2.5	Mature	Fair	Moderate	Stem is heavily obscured by ivy, branch unions are not visible. Crown breaks around 2.5 m from ground level, medium sized deadwood in the inner crown. Signs of dieback around the crown periphery. Leaf area and vigour appear moderate.	No work presently required	10 +	C	2	4.4	62
C01	PT4200	1	1	520	Scots pine - Pinus sylvestris	16	4	4	3.5	2	8	E	6	Mature	Normal	Moderate	Stem has a very minor sweep and a spiral growth pattern higher up. Crown breaks around 8 m from ground level, moderate branch unions. Lighter branches have a weeping form, foliage is extending downwards. Evidence of historic storm damage in the crown, stubs and partially fractured branches. Foliage area is moderate but the vigour appears normal.	Clean crown of deadwood and defective branches	20 +	B	2	6.2	122
C01	PT4201	1	1	450	Scots pine - Pinus sylvestris	14	3.5	6	5	2.5	8	S	4	Mature	Good	Moderate	Straight stem, crown breaks around 8 m from ground level, limb unions appear good. Minor dead stubs on the stem. Crown is partially suppressed by neighbouring trees, extending to the south and east. Fairly good example of it's species. Foliage area and vigour appear good.	No work presently required	20 +	B	1	5.4	92
C01	PT4202	1	1	720	Ash - Fraxinus excelsior	25	7	3	5	7	3	N	4.5	Mature	Normal	Moderate	Trunk is heavily obscured by ivy, limb unions are not visible. Light deadwood accumulating in the inner crown, light dieback in the crown periphery. Sprouting in the inner crown, indicating retrenchment. Good example of it's species. Leaf area is moderate but the vigour appears good.	Ivy management to facilitate future tree inspections	40 +	A	1	8.6	234
C01	PT4203	1	1	700	Scots pine - Pinus sylvestris	16	5	5	5	5	4	SW	2	Mature	Good	Moderate	Crown breaks around 4 m from ground level, limb union is moderate. Branch unions higher in the crown generally appear good. Branches have a weeping form, foliage is extending downwards. Foliage area and vigour appear good. Particularly good example of it's species.	No work presently required	40 +	A	1	8.4	222
C01	PT4204	1	1	560	Scots pine - Pinus sylvestris	16	4	4	4	3	7	E	4	Mature	Good	Moderate	Stem has a slight lean to the east, partial codominance in the crown, union appears good. Light deadwood and stubs in the inner crown. Branch unions generally appear good. Crown has a good even spread, foliage area and vigour appear good. Good example of it's species.	No work presently required	40 +	A	1	6.7	142
C01	PT4205	1	1	680	Ash - Fraxinus excelsior	20	7	6	4	6	3	E	3.5	Mature	Normal	Moderate	Trunk and stems are heavily obscured by ivy. Codominance 1 m from ground level, union is not visible. Branch unions are heavily obscured by ivy. Two of the main stems are over extended over the water course. Leaf area and vigour appear good.	Ivy management to facilitate future tree inspections	20 +	B	2	8.2	209
C01	PT4216*	1	3	207	Osier Willow - Salix viminalis	8	2.5	3	2.5	2.5	1	N	1.5	Semi-mature	Normal	Moderate	Dbh estimated, lower stems are heavily obscured by dense bramble. Light branch framework in the crown, visible branch unions generally appear good. Leaf area and vigour appear normal.	No work presently required	10 +	C	2	2.5	19
C01	PT4217*	1		150	Hazel - Corylus avellana	4	2	2	2	2	0		0	Young	Good	Moderate	Dbh estimated, lower stems are heavily obscured by dense bramble. Leaf area and vigour appear good, tree is producing nuts.	No work presently required	10 +	C	2	1.8	10
C01	PT4218	1	1	120	Weeping willow - Salix babylonica	4	2	3.5	3.5	2	2	E	1	Young	Normal	Fair	Stem has a strong lean to the east, crown is weighted to the east. Light over extension in the branches. Minor signs of dieback around the crown periphery, leaf vigour appears normal.	No work presently required	10 +	C	2	1.4	7
C01	PT4219	1	1	170	Weeping willow - Salix babylonica	5	3	3	2	2.5	1	E	1	Young	Normal	Fair	Stem has a strong lean to the east, crown is weighted to the east. Branches are slightly over extended, generally has poor form. Minor dieback around the crown periphery, remaining leaf vigour generally appears normal.	No work presently required	10 +	C	2	2	13
C01	PT4220	1	1	110	Weeping willow - Salix babylonica	5	2	3.5	3.5	2	1	E	1	Young	Fair	Fair	Codominant stems, union is not visible, further codominance 1.5 m from ground level, union has a bark inclusion. Light branch framework extending to the east. Leaf area is fair and the vigour appears moderate.	No work presently required	10 +	C	2	1.3	5



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C01	PT4221	1	3	223	Weeping willow - Salix babylonica	6	4	5	3	3	2	NW	1.5	Semi-mature	Normal	Moderate	Multi stem at ground level, unions are not visible. Crown breaks around 1.5 m from ground level, visible branch unions generally appear good. Crown is weighted to the east, light over extension. Minor dieback around the crown periphery, remaining leaf vigour generally appears normal.	No work presently required	10 +	C	2	2.7	22
C01	PT4222	1	1	170	Weeping willow - Salix babylonica	6	3.5	5	4	2.5	2	N	2	Young	Fair	Moderate	Codominant stems 1 m from ground level, moderate union. Crown is weighted to the east, light over extension. Minor dieback around the crown periphery, remaining leaf vigour generally appears normal.	No work presently required	10 +	C	2	2	13
C01	PT4223	1	1	280	Osier Willow - Salix viminalis	10	3	4.5	4	3	0	E	0.5	Semi-mature	Normal	Moderate	Whorl of limbs at the base of the stem, unions appear good. One of the higher limbs has a union with a partial bark inclusion. Branch unions generally appear good. Minor dieback around the crown periphery, remaining leaf vigour generally appears normal.	No work presently required	10 +	C	2	3.4	35
C01	PT4224	1	2	166	Cabbage palm - Cordyline australis	4	1	2	1	1	1	E	2	Young	Normal	Moderate	Dbh estimated, stems are heavily obscured by dense bramble. Foliage area and vigour appear normal for the species.	No work presently required	10 +	C	2	2	12
C01	PT4225*	1	4	286	Grey willow - Salix cinerea	5	4	4.5	5	4	0	E	0	Early-mature	Good	Moderate	Dbh estimated, lower stems are not visible, tree is established between a boundary wall and the water course. Multiple stems 2 to 3 m from ground level, unions are not visible. Branches are slightly over extended, visible unions generally appear good. Leaf area and vigour appear good.	No work presently required	20 +	B	2	3.4	37
C01	PT4226*	1	2	320	Osier Willow - Salix viminalis	10	3.5	4.5	4	4	1	E	0	Semi-mature	Normal	Moderate	Codominant stems at ground level, union is not visible. Limbs and branches are slightly over extended, unions generally appear good. Minor dieback around the crown periphery, remaining leaf vigour generally appears normal.	No work presently required	10 +	C	2	3.8	46
C01	T4249	1	3	559	Sycamore - Acer pseudoplatanus	18	4.5	5	4.5	3	2	E	2.5	Early-mature	Normal	Fair	Codominant stems 0.5 m from ground level, moderate unions. Tree has a natural lean to the east, crown is weighted over the water course. Further codominance 2.5 m from ground level, conjoined union partially obscured by ivy. Visible branch unions generally appear good, most are obscured by ivy. Leaf area and vigour appear normal.	No work presently required	20 +	B	2	6.7	141
C01	PT4250	1	1	1432	Common Beech - Fagus sylvatica	29	7	10	9	6	8	W	2	Ancient	Normal	Moderate	Fungal activity at the base of the stem in between the buttresses and along a longitudunial rib on the western side of the stem. Stem has a natural lean to the east, crown breaks around 8 m from ground level, stem unions generally appear good. Visible branch unions higher in the crown generally appear good. Crown raised and cleaned in the past, most wounds have occluded, evidence of minor hollowing in a few of the stubs. Medium sized deadwood in the crown, moderate dieback in the top of the crown. Remaining leaf area and vigour appear normal.	Clean crown of deadwood and defective branches	40 +	A	3	21.5	1450
C01	PT4251	1	1	300	Whitebeam - Sorbus aria	10	3.5	3.5	3.5	4	2	W	0.5	Semi-mature	Good	Moderate	Straight lower stem, crown breaks around 1.5 m from ground level, unions appear good. Codominance higher in the crown, moderate union. Light over extension in the branches. Leaf area and vigour appear good.	No work presently required	20 +	B	2	3.6	41
C01	PT4252	1	1	300	Whitebeam - Sorbus aria	10	3.5	3	3	3.5	1	N	1	Semi-mature	Normal	Fair	Tree has partially uprooted in the past and self corrected its growth pattern, leading to an L shaped stem. Multiple stems 0.5 m from ground level, moderate unions. Leaf area and vigour appear normal.	No work presently required	10 +	C	2	3.6	41
C01	T4253	1	1	550	Atlas Cedar - Cedrus atlantica	6	2.5	2.5	2.5	2.5	0	W	0.5	Semi-mature	Normal	Moderate	Stem and branch unions are obscured by ivy. Appears to have been topped in the past, stem breaks into multiple stems around 3 m from ground level, unions are not visible. Foliage area and vigour appear normal.	No work presently required	20 +	B	2	6.6	137

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C01	PT4254	1	1	300	Sitka spruce - Picea sitchensis	10	2.5	2.5	2.5	2.5	3	W	3.5	Semi-mature	Fair	Fair	Straight stem with a clear leader, branch unions generally appear good. Large amounts of light deadwood accumulating in the crown, poor foliage area and vigour.	Removal recommended	< 10	U	2	3.6	41
C01	PT4255	1	1	500	Osier Willow - Salix viminalis	14	4	4	3	5	4	N	4	Early-mature	Normal	Fair	Lower stem breaks into 4 main stems 1.5 m from ground level, unions are fair. Crown raised in the past, stub cuts and tears. Light deadwood in the inner crown. Over extension in some of the branches. Leaf area and vigour appear normal.	No work presently required	20 +	B	2	6	113
C01	PT4256	1	1	420	Sitka spruce - Picea sitchensis	15	3.5	5	4	5	4	E	4.5	Early-mature	Fair	Good	Straight stem with a clear leader, branch unions generally appear good. Minor ivy coverage on the lower stem. Light deadwood accumulating in the inner crown. Foliage area and vigour are moderate.	No work presently required	20 +	B	2	5	80
C01	PT4257	1	2	262	Sycamore - Acer pseudoplatanus	10	2	3.5	2.5	3	4	N	4.5	Semi-mature	Normal	Moderate	Codominant stems at ground level, union is obscured by ivy. Crown breaks around 4 m from ground level, visible branch unions generally appear good. Crown is partially suppressed by neighbouring trees. Leaf area and vigour appear normal for the crown size.	No work presently required	10 +	C	2	3.1	31
C01	PT4258	1	1	180	Sitka spruce - Picea sitchensis	9	2	2	3	2.5	7	W	6	Semi-mature	Fair	Moderate	Straight stem with a clear leader, light branch framework, unions generally appear good. Crown is partially suppressed by neighbouring trees, light deadwood in the crown. Foliage area and vigour are fair.	No work presently required	10 +	C	2	2.2	15
C01	PT4259	1	1	300	Wild Cherry - Prunus avium	10	4	4	2	5	2	W	1	Early-mature	Normal	Moderate	Lower stem is obscured by ivy, codominance 1 m from ground level and 2.5 m from ground level, lower union is obscured by ivy, higher union is moderate. Crown is partially suppressed by neighbouring trees, weighted to the north. Light over extension on the branches. Leaf area and vigour appear normal.	No work presently required	20 +	B	2	3.6	41
C01	PT4260	1	1	400	Sitka spruce - Picea sitchensis	16	5	6	6	6	3	W	3	Early-mature	Normal	Good	Straight stem with a clear leader, branch unions generally appear good. Crown is partially suppressed by neighbouring trees. Light deadwood accumulating in the inner crown. Foliage area and vigour generally appears normal.	No work presently required	20 +	B	2	4.8	72
C01	PT4261	1	3	294	Sycamore - Acer pseudoplatanus	11	2.5	4	5	5	2	S	1.5	Semi-mature	Normal	Moderate	Codominant stems at ground level, unions are obscured by ivy. Crown breaks around 1.5 m from ground level, visible branch unions generally appear good. Crown is partially suppressed by neighbouring trees weighted to the south, light over extension on the branches. Leaf area and vigour appear normal.	No work presently required	10 +	C	2	3.5	39
C01	T4262	1	1	150	Sycamore - Acer pseudoplatanus	8	2	2	2	3	2	W	2	Semi-mature	Normal	Moderate	Stem is heavily obscured by ivy, codominance 2 m from ground level, union is not visible. Light branch framework, unions are obscured by ivy. Leaf area and vigour appear normal.	No work presently required	10 +	C	2	1.8	10
C01	T4263	1	1	300	Wild Cherry - Prunus avium	8	3	4	4	5	2	W	1	Semi-mature	Normal	Fair	Lower stem is heavily obscured by ivy, partial codominance 1.5 m from ground level, union is not visible. Crown is partially suppressed by neighbouring trees, leading to poor crown form. Light deadwood in the inner crown. Foliage area is moderate but the vigour appears normal.	Ivy management to facilitate future tree inspections	10 +	C	2	3.6	41
C01	T4264	1	1	250	Silver Birch - Betula pendula	12	3	3	3	3.5	3	N	4	Semi-mature	Normal	Good	Straight stem, minor codominance higher in the crown, union appears good. Light branch framework, light deadwood in the inner crown. Leaf area and vigour appear normal.	No work presently required	20 +	B	2	3	28
C01	T4265	1	1	240	Sitka spruce - Picea sitchensis	13	2	2	2	2	6	NW	7	Semi-mature	Normal	Good	Straight stem with a clear leader, minor ivy coverage, branch unions generally appear good. Crown is partially suppressed by neighbouring trees. Foliage area and vigour generally appear normal. Bird nest in the crown.	No work presently required	20 +	B	2	2.9	26
C01	T4266	1	2	382	Sycamore - Acer pseudoplatanus	12	2.5	4	4.5	4.5	1	SE	2	Early-mature	Normal	Moderate	Codominant stems 0.5 m from ground level, union appears good. Crown breaks around 2 m from ground level, visible branch unions generally appear good. Crown is partially suppressed by neighbouring trees. Leaf area and vigour generally appear normal.	No work presently required	20 +	B	2	4.6	66

Water course Identifier	Feature ID	No of Trees	Stem Count	Stem Diameter (mm)	Tree Species	Height (m)	Crown Spread N (m)	Crown Spread E (m)	Crown Spread S (m)	Crown Spread W (m)	FSB ht (m)	FSB Dir	Canopy clearance ht (m)	Life stage	Vitality Class	Structural Condition	Observations	Preliminary management recommendations	Remaining contribution in yrs	Retention Category	Retention Sub category	RPR-Root Protection Radius (m)	RPA-Root Protection Area (m²)
C01	H4267			70	Pittosporum - Pittosporum, Cherry laurel - Prunus laurocerasus Rotundifolia, Alder - Alnus glutinosa, Rowan - Sorbus aucuparia, Sycamore - Acer pseudoplatanus	5					0			Semi-mature	Normal	Moderate	Dense hedge of multi stemmed trees forming an understorey to the mature trees.	No work presently required	10 +	C	2	0.8	2
C01	T4268	1	1	160	Rowan - Sorbus aucuparia	6	2.5	2.5	2.5	2.5	2	W	2	Semi-mature	Normal	Moderate	Lower stem is heavily obscured by vegetation and ivy. Crown breaks around 2 from ground level, unions are not visible. Light branch framework. Leaf area and vigour generally appear normal.	No work presently required	20 +	B	2	1.9	12
C01	T4269	1	1	240	Silver Birch - Betula pendula	16	3	3	2	2	4	NW	4	Early-mature	Fair	Good	Straight stem with a clear leader, light branch framework, unions generally appear good. Leaf area and vigour appear moderate.	No work presently required	20 +	B	2	2.9	26
C01	T4270	1	4	461	Osier Willow - Salix viminalis	12	5	5	4	5	4	W	2	Early-mature	Normal	Fair	Codominant stems 0.5 m from ground level, unions are obscured by ivy, poor stem form. Crown breaks around 3.5 m from ground level, branch unions are not visible. Over extension in some of the stems. Light deadwood in the inner crown. Foliage area and vigour generally appears normal.	No work presently required	10 +	C	2	5.5	96
C01	T4271	1	1	350	Wild Cherry - Prunus avium	5	1.5	4	4	4	2	W	1	Semi-mature	Fair	Moderate	Lower stem is heavily obscured by ivy, codominance 1.5 m from ground level, unions are not visible. Crown breaks around 2 m from ground level, branch unions are not visible. Leaf browning and dieback in the crown.	No work presently required	10 +	C	2	4.2	55
C01	T4272	1	2	485	Alder - Alnus glutinosa	15	5	7	3	4.5	6	W	6	Early-mature	Normal	Moderate	Codominant stems at ground level, union is obscured by ivy. Both stems have a strong lean to the east over the water course. Crown breaks around 6 m from ground level, branch unions are obscured by ivy. Some over extension on the branches to the east. Leaf area and vigour appear normal.	Ivy management to facilitate future tree inspections	20 +	B	2	5.8	106
C01	T4273	1	1	340	Alder - Alnus glutinosa	16	3	4.5	3.5	4	3	W	2.5	Early-mature	Normal	Moderate	Stem has a natural lean to the east over the water course, heavily obscured by ivy. Crown breaks around 2.5 m from ground level, branch unions are not visible. Light deadwood in the crown. Leaf area and vigour generally appear normal.	Ivy management to facilitate future tree inspections	20 +	B	2	4.1	52
C01	T4274	1	2	320	Alder - Alnus glutinosa	4	1.5	1.5	1.5	1.5	3	NW	3	Early-mature	Dead	Dead	Codominant stems at ground level, union is not visible, heavily obscured by ivy. Only light dead branches remaining in the crown.	Partially remove the tree leaving a snag (monolith) for wildlife habitat	< 10	U	3	3.8	46
C01	T4275	1	1	380	Osier Willow - Salix viminalis	9	3	4	3.5	4	4	NW	1.5	Early-mature	Fair	Poor	Stem is heavily obscured by ivy, crown breaks around 4 m from ground level, branch unions are not visible. Signs of historic storm damage, number of fractured limbs. Poor crown form and leaf vigour.	No work presently required	10 +	C	2	4.6	65
C01	T4276	1	2	320	Alder - Alnus glutinosa	12	2	3	1.5	1.5	3	S	4	Early-mature	Poor	Poor	Stems have a very heavy lean over the water course, heavily obscured by ivy. Medium sized deadwood in the crown, approximately 10 to 15% live crown remaining.	Partially remove the tree leaving a snag (monolith) for wildlife habitat	< 10	U	3	3.8	46
C01	T4277	1	1	350	Wild Cherry - Prunus avium	8	3	5	4	5	2	W	1.5	Early-mature	Normal	Moderate	Stem is heavily obscured by ivy, crown breaks around 2.5 m from ground level, branch unions are not visible. Crown is partially suppressed by neighbouring trees leading to poor stem form. Leaf area is moderate, vigour appears normal.	No work presently required	10 +	C	2	4.2	55
C01	T4278	1	1	240	Silver Birch - Betula pendula	12	2	3	2	3	2	NW	2	Early-mature	Normal	Moderate	Stem is heavily obscured by ivy, crown breaks around 2 m from ground level, branch unions are not visible. Leaf area and vigour are moderate.	No work presently required	10 +	C	2	2.9	26
C01	T4279	1	1	200	Rowan - Sorbus aucuparia	7	2	2	2	2	2	W	3	Semi-mature	Normal	Fair	Stem is heavily obscured by ivy, crown breaks around 2.5 m from ground level, branch unions are not visible. Crown is partially suppressed by neighbouring trees. Leaf area and vigour appear normal.	No work presently required	10 +	C	2	2.4	18



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C02	T4303	1	1	200	Ash - Fraxinus excelsior	9	5	3	2	4	2	N	3.5	Semi-mature	Normal	Moderate	Straight lower stem, crown breaks around 2 m from ground level, unions appear good. Crown raised in the past, leaving stubs and tears, sprouting at the wound sites. Codominance in the crown, moderate union. Northern stem is slightly over extended. Leaf area and vigour appear good, dense inner crown.	Reduce end weight on over extended limbs	20 +	B	2	2.4	18
C02	T4304	1	1	250	Ash - Fraxinus excelsior	9	3	2.5	3.5	2.5	2	N	2.5	Semi-mature	Fair	Moderate	Straight lower stem, crown breaks around 2 m from ground level, moderate unions. Crown raised in the past leaving stubs, sprouting near the wounds. Light deadwood accumulating in the crown. Leaf area and vigour appear fair.	No work presently required	10 +	C	2	3	28
C02	T4305	1	1	250	Ash - Fraxinus excelsior	9	2.5	2	5	4	2	W	2	Semi-mature	Fair	Fair	Stem is obscured by ivy, codominant stems around 2 m from ground level, unions are not visible. Crown raised in the past leaving stub cuts, sprouting near the wounds. Light deadwood accumulating in the inner crown, light over extension on the southern branches. Leaf area and vigour are fair in the western side of the crown, extensive chlorosis.	No work presently required	10 +	C	2	3	28
C02	T4306	1	1	250	Ash - Fraxinus excelsior	9	4	3	4	5	2	N	2.5	Semi-mature	Fair	Moderate	Lower stem and crown break are obscured by a hedge and other vegetation. Epicormic growth in the inner crown obscuring the branch unions. Light deadwood accumulating in the crown, dieback around the crown periphery. Leaf vigour is fair, signs of chlorosis.	No work presently required	10 +	C	2	3	28
C02	T4307*	1	1	200	Crimson King' Norway maple - Acer platanoides 'Crimson King'	7	2.5	2.5	2.5	2.5	3	N		Semi-mature	Normal	Moderate	Lower stem and crown break are not visible, obscured by a hedge and other vegetation. Light branch framework, visible unions generally appear good. Leaf area and vigour appear normal.	No work presently required	20 +	B	2	2.4	18
C02	T4308*	1	1	150	Crimson King' Norway maple - Acer platanoides 'Crimson King'	7	3	2.5	2	2.5	3	N		Semi-mature	Normal	Moderate	Stem and crown break are not visible, obscured by a hedge and other vegetation. Light branch framework, visible unions generally appear good. Leaf area and vigour appear normal.	No work presently required	20 +	B	2	1.8	10
C02	T4309*	1	1	250	Crimson King' Norway maple - Acer platanoides 'Crimson King'	8	3	4	4	4	2	E	1.5	Semi-mature	Good	Moderate	Lower stem is obscured by vegetation, codominance around 2 m from ground level, moderate unions. Light branch framework, visible unions generally appear good. Leaf area and vigour appear good.	No work presently required	20 +	B	2	3	28
C02	H4310			100	Sycamore - Acer pseudoplatanus, Elder - Sambucus nigra, Hawthorn - Crataegus monogyna	4					0			Semi-mature	Normal	Moderate	Roadside boundary hedge, topped and side pruned regularly. Climber, ivy and bramble in the hedge. Leaf area and vigour appears normal. Good nesting potential.	No work presently required	20 +	B	2	1.2	5
C02	T4311	1	1	350	Sycamore - Acer pseudoplatanus	10	2	3	2	3	4	W		Semi-mature	Normal	Moderate	Stem is heavily obscured by ivy, branch unions are not visible. Topped in the past, regrowth from the pruning wounds has restored the crown. Light branch framework, leaf area and vigour appear normal.	Ivy management to facilitate future tree inspections	10 +	C	2	4.2	55
C02	T4312	1	1	400	Sycamore - Acer pseudoplatanus	10	3	3	2.5	3.5	5	S		Early-mature	Normal	Moderate	Stem is heavily obscured by ivy, crown breaks around 5 m from ground level, unions are not visible. Topped in the past, regrowth from the pruning wounds has restored the crown. Leaf area and vigour appear good.	Ivy management to facilitate future tree inspections	20 +	B	2	4.8	72
C02	T4313	1	4	272	Sycamore - Acer pseudoplatanus	8	3	3	3	4	1	W	0.5	Semi-mature	Good	Moderate	Multi stem at ground level, unions are obscured by epicormic growth. Light branch framework, unions generally appear good. Leaf area and vigour appear good.	No work presently required	20 +	B	2	3.3	33
C02	T4314	1	2	424	Sycamore - Acer pseudoplatanus	12	5	5	3	5	1	W	1	Early-mature	Good	Moderate	Codominant stems at ground level, unions are not visible, stems are heavily obscured by ivy. Branch unions are obscured by ivy. Light over extension on the limbs to the west. Leaf area and vigour appear good.	No work presently required	20 +	B	2	5.1	81
C02	T4315	1	1	280	Sycamore - Acer pseudoplatanus	10	2	5	3	5	0	W	0.5	Early-mature	Good	Moderate	Codominant stems 1.5 m from ground level, union is not visible, stems are heavily obscured by ivy. First branches extend to the west close to ground level, main crown break is 2.5 m from ground level, branch unions are obscured by ivy. Crown is partially suppressed by neighbouring trees, extending to the east and west. Leaf area and vigour appear good.	No work presently required	10 +	C	2	3.4	35

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C02	T4316	1	1	300	Sycamore - Acer pseudoplatanus	10	2	4	3	5	0	SW	0	Early-mature	Good	Moderate	Stem is heavily obscured by ivy, has a slight spiral growth pattern. Codominance 3 m from ground level, union is not visible, branch unions are not visible. Crown is partially suppressed by neighbouring trees, extending to the east and west. Leaf area and vigour appear good.	No work presently required	10 +	C	2	3.6	41
C02	T4317	1	1	400	Sycamore - Acer pseudoplatanus	12	3	4.5	5	5	0	W	0	Early-mature	Good	Moderate	Stem and crown are heavily obscured by ivy, branch unions are not visible. First limb extends to the west close to ground level, main crown break is 2.5 m from ground level. Crown is partially suppressed by neighbouring trees, extending to the south and west. Leaf area and vigour appear good.	No work presently required	20 +	B	2	4.8	72
C02	T4318	1	3	454	Sycamore - Acer pseudoplatanus	10	4.5	4.5	5	5	1	S	0.5	Early-mature	Normal	Moderate	Multi stem at ground level, unions are heavily obscured by ivy. Light branch framework, unions are not visible. Crown raised in the past over the road side, headroom appears good. Crown conflict with the communications cable. Leaf area and vigour appear normal.	Ivy management to facilitate future tree inspections,Remove branch conflict with adjacent infrastructure	10 +	C	2	5.4	93
C02	T4319	1	1	420	Small - leaved Lime - Tilia cordata	12	4.5	4.5	3	4.5	1	S	1	Semi-mature	Fair	Moderate	Straight lower stem, crown breaks around 2 m from ground level, codominant stems, moderate unions. Visible branch unions generally appear good. Crown raised in the past, sufficient headroom over the foot path. Leaf vigour is fair, holes in the leaves, minor chlorosis and leaf browning.	No work presently required	20 +	B	2	5	80
C02	T4320	1	1	220	Small - leaved Lime - Tilia cordata	9	2	3	1.5	1.5	2	N	2	Semi-mature	Fair	Moderate	Stem has sweep, crown breaks around 2 m from ground level, moderate branch unions. Partial codominance higher in the crown, union has a partial bark inclusion. Crown is heavily suppressed by neighbouring trees. Leaf area and vigour appear fair.	No work presently required	10 +	C	2	2.6	22
C02	T4321	1	1	290	Small - leaved Lime - Tilia cordata	10	3.5	4	3	2	2	SE	3	Semi-mature	Normal	Moderate	Light sprouting at the base of the stem, crown breaks around 2 m from ground level, moderate unions. Crown is partially suppressed by neighbouring trees, extending to the east. Crown raised in the past, sufficient headroom over the foot path. Leaf area and vigour appear normal.	No work presently required	20 +	B	2	3.5	38
C02	T4322	1	1	350	Large - leaved Lime - Tilia platyphyllos	12	2.5	4.5	2.5	3	2	W	1.5	Semi-mature	Normal	Moderate	Stem has a minor sweep, crown breaks around 2 m from ground level, moderate branch unions. Codominance higher in the crown, moderate unions. Crown is partially suppressed by neighbouring trees, extending to the east. Leaf vigour is below optimal, minor chlorosis and leaf browning.	No work presently required	20 +	B	2	4.2	55
C02	T4323	1	1	390	Large - leaved Lime - Tilia platyphyllos	10	2.5	4.5	5	3	2	S	1	Semi-mature	Normal	Moderate	Codominant stems 2 m from ground level, union has a bark inclusion, further codominance 2.5 m from ground level, moderate unions. Evidence of limbs fracturing in the crown, one light partially fractured branch hanging in the crown. Crown is partially suppressed by neighbouring trees, extending to the east and south. Leaf area appears normal but the vigour is slightly below optimal.	Clean crown of deadwood and defective branches	20 +	B	2	4.7	69
C02	T4324	1	1	340	Large - leaved Lime - Tilia platyphyllos	10	2.5	2	3.5	2	2	SW	2	Semi-mature	Normal	Moderate	Codominant stems 2 m from ground level and 3 m from ground level, moderate unions. Crown is partially suppressed by neighbouring trees, extending to the south, generally a light branch framework. Leaf area and vigour appear normal.	No work presently required	20 +	B	2	4.1	52
C02	T4325	1	1	350	Large - leaved Lime - Tilia platyphyllos	10	3	2	4.5	4.5	1	SW	1	Semi-mature	Normal	Moderate	Lowest branch union on the stem has a bark inclusion, codominance 3 m from ground level, moderate union. Light branch framework, unions are generally moderate. Crown is partially suppressed by neighbouring trees extending to the south and west. Leaf area and vigour appear normal.	No work presently required	20 +	B	2	4.2	55
C02	T4326	1	1	270	Large - leaved Lime - Tilia platyphyllos	10	3	3	2	4	2	W	2	Semi-mature	Normal	Moderate	Lower stem has minor sweep, crown breaks around 2 m from ground level, unions generally appear good. Codominance higher in the crown, moderate union. Crown is partially suppressed by neighbouring trees, extending to the west. Leaf area and vigour appear normal.	No work presently required	20 +	B	2	3.2	33



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C02	T4327	1	1	410	Norway maple - Acer platanoides	12	5	3	7	6	2	NE	0.5	Semi-mature	Fair	Moderate	Stem has a slight lean to the east, crown breaks around 2 m from ground level, limb unions generally appear good. Branch unions generally appear good. Crown raised in the past, sufficient headroom over the foot path. Leaf area appears normal but the vigour is fair, chlorosis and leaf browning.	No work presently required	20 +	B	2	4.9	76
C02	T4328	1	1	390	Norway maple - Acer platanoides	12	5	7	6	3	2	NE	1.5	Semi-mature	Fair	Moderate	Stem has a slight lean to the east, crown breaks around 2 m from ground level, branch unions generally appear good. Codominance 2.5 m from ground level, moderate union. Light branch framework, over extension to the east. Leaf area appears normal but the vigour is fair, chlorosis and browning.	No work presently required	20 +	B	2	4.7	69
C02	T4329	1	1	190	Norway maple - Acer platanoides	8	3	4.5	4	2	2	SE	2	Semi-mature	Fair	Fair	Codominant stems 1.5 m from ground level, moderate union. Crown is heavily suppressed by neighbouring trees, over extension to the east and south. Crown has poor form, branch unions are generally moderate. Leaf vigour is fair, chlorosis and leaf browning.	Removal recommended	10 +	C	2	2.3	16
C02	T4330	1	1	350	Norway maple - Acer platanoides	10	2	6	6	4	2	SE	2	Semi-mature	Normal	Moderate	Stem has sweep, codominance 2 m from ground level, moderate unions. Branch unions generally appear good, crown is partially suppressed by neighbouring trees, over extension to the east and south. Leaf area appears normal but the vigour is slightly below optimal.	Remove branch conflict with adjacent infrastructure	20 +	B	2	4.2	55
C02	T4331	1	1	380	Large - leaved Lime - Tilia platyphyllos	10	3	5	5	5	2	W	0.5	Semi-mature	Normal	Moderate	Stem has a strong sweep, codominance 1.5 m from ground level, moderate unions. Branch unions are generally moderate. Crown is partially suppressed by neighbouring trees, light over extension to the south. Leaf area and vigour appear normal.	No work presently required	20 +	B	2	4.6	65
C02	T4332	1	1	320	Norway maple - Acer platanoides	10	4.5	4.5	4.5	4.5	2	SE	2	Semi-mature	Good	Moderate	Large wound on the north side of the stem, almost occluded. Crown breaks around 2 m from ground level, branch unions appear good. One of the main stems has a union with a partial bark inclusion, higher branch unions generally appear good. Crown has a good even spread, leaf area and vigour appear good.	No work presently required	40 +	A	2	3.8	46
C02	T4333	1	1	260	Norway maple - Acer platanoides	10	4	4	4	4	2	W	2	Semi-mature	Fair	Fair	Stem has a slight spiral growth pattern, codominance 2.5 m from ground level, stem unions have partial bark inclusions. Light branch framework, unions generally appear good. Leaf area and vigour are fair, chlorosis and leaf browning.	No work presently required	20 +	B	2	3.1	31
C02	T4334	1	1	350	Pedunculate oak - Quercus robur	10	5	5	5	5	2	SE	2	Semi-mature	Normal	Moderate	Straight stem, crown breaks around 2 m from ground level, unions appear good. Codominance higher in the crown, moderate union. Light fractured branch hanging in the crown. Good crown spread, leaf area and vigour appear normal.	Clean crown of deadwood and defective branches	40 +	A	2	4.2	55
C02	T4335	1	1	390	Field maple - Acer campestre	8	4.5	4.5	3	4.5	2	E	2	Semi-mature	Good	Moderate	Epicormic growth at the base of the stem, crown breaks around 2 m from ground level, limb unions appear good. Branch unions higher in the crown generally appear good. Leaf area and vigour appear good.	No work presently required	40 +	A	2	4.7	69
C02	T4336	1	1	370	Small - leaved Lime - Tilia cordata	9	3.5	5	5	5	2	S	1.5	Semi-mature	Fair	Moderate	Evidence of root girdling at the base of the stem. Crown breaks around 2 m from ground level, branch unions appear good. Codominance 3 m from ground level, union has a partial bark inclusion. Crown has a good spread, leaf area appears normal but the vigour is fair, chlorosis and leaf browning.	No work presently required	20 +	B	2	4.4	62
C02	T4337	1	1	410	Large - leaved Lime - Tilia platyphyllos	10	3	4	4	4	2	NE	1	Semi-mature	Normal	Moderate	Codominant stems 1.5 m from ground level, union has a bark inclusion. Numerous fractured branches hanging in the crown. Crown generally has a good spread, leaf area and vigour appear normal.	Remove fractured limb(s),Clean crown of deadwood and defective branches	20 +	B	2	4.9	76

Water course Identifier	Feature ID	No of Trees	Stem Count	Stem Diameter (mm)	Tree Species	Height (m)	Crown Spread N (m)	Crown Spread E (m)	Crown Spread S (m)	Crown Spread W (m)	FSB ht (m)	FSB Dir	Canopy clearance ht (m)	Life stage	Vitality Class	Structural Condition	Observations	Preliminary management recommendations	Remaining contribution in yrs	Retention Category	Retention Sub category	RPR-Root Protection Radius (m)	RPA-Root Protection Area (m²)	
C02	T4338	1	1	250	Small - leaved Lime - Tilia cordata	10	3	3.5	4	3	2	S	1	Semi-mature	Normal	Good	Straight stem with a clear leader, crown breaks around 2 m from ground level, branch unions generally appear good. Light over extension, partially fractured branch hanging in the crown. Crown is partially suppressed by neighbouring trees. Leaf area and vigour generally appears normal.	Remove fractured limb(s)	40 +	A		2	3	28
C02	T4339	1	1	380	Small - leaved Lime - Tilia cordata	12	4	4.5	3	4	3	E	1	Semi-mature	Normal	Moderate	Codominant stems 2 m from ground level, moderate union. Crown breaks around 2.5 m from ground level, branch unions generally appear good, light over extension to the east. Leaf area and vigour generally appears normal.	No work presently required	20 +	B		2	4.6	65
C02	T4340	1	1	310	Small - leaved Lime - Tilia cordata	9	4	4	2.5	4	2	N	1.5	Semi-mature	Normal	Moderate	Light sprouting on the stem, crown breaks around 2 m from ground level, moderate unions. Light branch framework, unions generally appear good. Leaf area and vigour appear normal.	No work presently required	20 +	B		2	3.7	43
C02	T4341	1	1	210	Alder - Alnus glutinosa	6	1	1	3	4	2	SW	0	Early-mature	Poor	Fair	Epicormic growth at base, lower stem and throughout crown. Multiple dead branches to West and South.	Partially remove the tree leaving a snag (monolith) for wildlife habitat	10 +	C		2	2.5	20
C02	T4342	1	1	480	London Plane - Platanus x hispanica	13	4	7	7	6	3	S	1.5	Early-mature	Normal	Moderate	Well formed buttresses. Asymmetric crown to Southeast. Good branch unions throughout. Large hanging dead limb to North at 5m. Good vigour and leaf cover.	Remove deadwood	20 +	B		2	5.8	104
C02	T4343	1	1	410	London Plane - Platanus x hispanica	9	6	7	3	6	2	NE	1.5	Early-mature	Normal	Moderate	Well formed buttresses. Partially occluded pruning stub to South. Partially occluded pruning wound on lower stem to East. Good branch unions throughout crown. Broken limb hanging in upper crown. Minor deadwood throughout. Good vigour and leaf cover.	Remove deadwood	20 +	B		2	4.9	76
C02	T4344	1	1	460	Cherry spp - Prunus spp	6	5	6	4	5	1	NE	2	Early-mature	Normal	Moderate	Damage to surface roots and lower stem to West. Included union with natural bracing to Southeast. Partially occluded damage to underside of branches at 2m at East. Good branch unions. Good vigour and leaf cover.	No work presently required	20 +	B		2	5.5	96
C02	T4345	1	1	140	Cherry spp - Prunus spp	5	1	6	2	0	1	SE	2.5	Early-mature	Normal	Fair	Extensive partially occluded damage to lower stem on East and West. Numerous pruning stubs at 1.75m at East. Bark damage at 2m to Southeast. Good vigour and leaf cover.	Target prune stub cuts,Reduce end weight on over extended limbs	10 +	C		2	1.7	9
C02	T4346	1	1	350	Large - leaved Lime - Tilia platyphyllos	9	4	5	5	5	2	NE	0.5	Early-mature	Good	Moderate	Epicormic growth at base of stem. Good branch unions throughout. Good vigour and leaf.	No work presently required	20 +	B		2	4.2	55
C02	T4347	1	1	310	Large - leaved Lime - Tilia platyphyllos	7	4	4	4	4	3	N	1.5	Early-mature	Normal	Moderate	Good flare at base of stem. Minor deadwood throughout crown. Pruning stubs in crown to West. Branch tearout at 4m to West. Good branch unions throughout crown. Good leaf cover but leaf size somewhat small.	No work presently required	20 +	B		2	3.7	43
C02	T4348	1	1	240	Whitebeam - Sorbus aria	5	2.5	2.5	2.5	2.5	1	W	1.5	Semi-mature	Normal	Moderate	Ground disturbance in the rooting environment, exposed roots and evidence of soil disturbance. Large wound on the stem, partially occluded. Codominance 1.5 m from ground level, moderate unions. Crown has an even spread, leaf area and vigour appear normal.	No work presently required	20 +	B		2	2.9	26
C02	T4349	1	1	320	Copper Beech - Fagus sylvatica 'Purpurea'	10	5	5.5	5.5	4	2	S	1.5	Semi-mature	Normal	Moderate	Wounds at the base of the stem from grass cutting operations. Appears to be ground disturbance in the rooting environment, exposed roots and evidence of soil disturbance. Crown breaks around 2 m from ground level, first branch union has a partial bark inclusion. Higher branch unions generally appear good, light over extension. Leaf area and vigour appear normal.	No work presently required	20 +	B		2	3.8	46
C02	T4350	1	1	210	Pedunculate oak - Quercus robur	7	3	4	4	2	1	W	1	Semi-mature	Normal	Moderate	Good flare at base of stem. Partially occluded damage to lower limbs to East and West. Minor deadwood throughout crown. Good branch unions. Good vigour and leaf cover.	No work presently required	20 +	B		2	2.5	20
C02	T4351	1	1	200	Pedunculate oak - Quercus robur	7	2	4	4	3	2	E	0.5	Semi-mature	Normal	Moderate	Good flare at base of stem. Minor damage to lower branches. Minor deadwood throughout crown. Good branch unions. Good vigour and leaf cover.	No work presently required	20 +	B		2	2.4	18

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C02	T4352	1	1	170	Pedunculate oak - Quercus robur	6	3	2	2	3	1	SE	0.5	Semi-mature	Normal	Moderate	Good flare at base of stem. Codominant union at 2m. Good branch unions throughout crown. Minor deadwood throughout crown. Good vigour and leaf cover.	No work presently required	20 +	B	2	2	13
C02	T4353	1	5	305	Rowan - Sorbus aucuparia	8	4	3	3	3	1	SW	0.5	Early-mature	Fair	Poor	Multi-stemmed from ground level. Many stems are dead and decaying. Good branch unions. Moderate vigour.	Remove and grind stump	10 +	C	2	3.7	42
C02	T4354	1	1	270	Pedunculate oak - Quercus robur	7	4	4	2	4	1	W	0.5	Semi-mature	Normal	Moderate	Good flare at base of stem. Lower branches adjacent road torn at tips. Good branch unions throughout crown. Minor deadwood present throughout crown. Good vigour and leaf cover.	No work presently required	20 +	B	2	3.2	33
C02	T4355	1	1	730	Horse chestnut - Aesculus hippocastanum	11	5	5	4	5	2	N	0.5	Early-mature	Normal	Moderate	Well formed buttresses. Girdled surface roots on North. Multi-stemmed from 1m with included unions to East and South. Southern canopy abuts carriageway barrier. Good branch unions throughout crown. Good vigour and leaf cover.	Reduce end weight on over extended limbs	20 +	B	2	8.8	241
C02	T4356	1	1	230	Pedunculate oak - Quercus robur	8	4	3	1	3	2	N	1.5	Semi-mature	Normal	Moderate	Good flare at base of stem. Crown asymmetric to North. Codominant stems at 4m with good union. Good branch unions throughout crown. Good vigour and leaf cover.	No work presently required	20 +	B	2	2.8	24
C02	T4357	1	1	880	Monterey Pine - Pinus radiata	18	6	6	5	7	2	E	2	Mature	Normal	Moderate	Major deadwood in lower crown to South. Deadwood throughout crown typical for species. Limbs extend over carriageway to South. Branch unions good throughout crown. Leaf cover slightly sparse.	Reduce end weight on over extended limbs,Shorten deadwood	20 +	B	2	10.6	350
C02	T4358	1	1	420	Horse chestnut - Aesculus hippocastanum	10	7	4	3	4	1	N	0.5	Early-mature	Normal	Moderate	Girdled roots at base of stem. Partially occluded wound on stem to Southwest at 1.5m. Good branch unions throughout crown. Deadwood hanging in tree at 3m. Good vigour and leaf cover.	No work presently required	20 +	B	2	5	80
C02	T4359	1	1	720	Italian Alder - Alnus cordata	18	6	5	5	4	2	NW	0.5	Mature	Good	Good	Well formed buttresses. Minor deadwood in lower crown. Good branch unions throughout well proportioned crown. Excellent vigour and leaf cover.	No work presently required	40 +	B	2	8.6	234
C02	T4360	1	2	545	Sycamore - Acer pseudoplatanus	9	3	5	4	5	0	N	0	Early-mature	Normal	Moderate	Growing on bank with exposed roots to North. Lower branches to South with damage to tips. Good branch unions throughout squat spreading crown. Good vigour and leaf cover.	Reduce end weight on over extended limbs	20 +	B	2	6.5	134
C02	T4361	1	1	420	Horse chestnut - Aesculus hippocastanum	9	6	5	4	4	2	NE	0	Early-mature	Normal	Moderate	Good flare at base of stem with girdled roots present. Good branch unions throughout squat spreading crown. Good vigour and leaf cover.	No work presently required	20 +	B	1	5	80
C02	T4362	1	1	700	Italian Alder - Alnus cordata	16	6	5	4	5	3	E	1	Mature	Good	Moderate	Well formed buttresses. Large limb with good union to East at 3m. Open spreading habit with good branch unions throughout. Excellent vigour and leaf cover.	No work presently required	20 +	B	2	8.4	222
C02	T4363	1	3	478	Narrow - leaved ash - Fraxinus angustifolia	9	6	3	3	5	2	NE	0	Early-mature	Normal	Moderate	Growing at top of bank. Ivy obscuring stems. Southernmost stem with partially occluded damage at 2m. Evidence of historic damage in crown to West at 4m. Good branch unions where visible. Excellent vigour and leaf cover.	Reduce end weight on over extended limbs	20 +	B	2	5.7	103
C02	T4364	1	2	306	Sycamore - Acer pseudoplatanus	6	3	4	3	4	0	SW	0	Early-mature	Normal	Moderate	Growing adjacent carriageway barrier. Good branch unions. Lower branches on South mechanically pruned. Good vigour and leaf cover.	No work presently required	20 +	B	2	3.7	42
C02	T4365	1	1	190	Ash - Fraxinus excelsior	8	3	3	4	2	2	S	0	Semi-mature	Normal	Moderate	Stem leans to South. Minor deadwood present throughout crown. Good branch unions. Good vigour and leaf cover.	No work presently required	20 +	B	2	2.3	16
C02	T4366	1	1	130	Ash - Fraxinus excelsior	7	4	1	4	4	2	SW	2	Semi-mature	Normal	Moderate	Minor deadwood in lower crown. Good branch unions throughout asymmetric crown. Good vigour and leaf cover.	No work presently required	20 +	B	2	1.6	8
C02	T4367	1	1	270	Pine spp - Pinus spp	6	3	2	3	3	2	S	2	Semi-mature	Normal	Moderate	Dead Ivy obscuring stem and crown. Good branch unions where visible. Good leaf cover.	No work presently required	20 +	B	2	3.2	33
C05	T4368	1	1	350	Small - leaved Lime - Tilia cordata	15	5	4	4	5	1	N	1	Mature	Fair	Moderate	Ivy obscuring stem. Epicormic growth surrounding base of tree to 4m. Major deadwood in upper crown. Branch unions not visible. Good leaf cover. Good vigour.	Shorten deadwood,Ivy management to facilitate future tree inspections	20 +	B	2	4.2	55
C05	T4369	1	1	270	Sycamore - Acer pseudoplatanus	9	1	1	3	4	1	SE	2	Early-mature	Normal	Moderate	Tree growing against low wall on Southwest. Ivy obscuring stem. Asymmetric crown to West. Branch unions not visible. Good vigour and leaf cover.	Ivy management to facilitate future tree inspections	20 +	B	2	3.2	33



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C05	T4370	1	3	684	Sycamore - Acer pseudoplatanus	13	4	2	5	4	0	NW	0.5	Mature	Normal	Moderate	Multi-stemmed tree obscured by ivy growth high into crown. Branch unions not visible. Growth habit typical for species. Vigour and leaf cover good.	Ivy management to facilitate future tree inspections	20 +	B	2	8.2	212
C05	T4371	1	1	440	Sycamore - Acer pseudoplatanus	13	3	4	3	4	4	E	0	Mature	Normal	Moderate	Codominant stems from 1.5m. Union obscured by ivy. Ivy obscuring stem and branches. Branch unions not visible. Good vigour and leaf cover.	Ivy management to facilitate future tree inspections	20 +	B	2	5.3	88
C05	T4372	1	1	290	Sycamore - Acer pseudoplatanus	12	4	2	4	1	2	SE	2	Early-mature	Normal	Moderate	Ivy obscuring stem. Branch unions not visible. Vigour and leaf cover good.	Ivy management to facilitate future tree inspections	20 +	B	2	3.5	38
C05	T4373	1	3	607	Sycamore - Acer pseudoplatanus	13	5	2	5	5	2	E	1.5	Mature	Normal	Moderate	Ivy obscuring stems. Wild clematis in lower crown. Branch unions good where visible. Good vigour and leaf cover.	Ivy management to facilitate future tree inspections	20 +	B	2	7.3	167
C05	T4374	1	4	498	Sycamore - Acer pseudoplatanus	12	5	3	4	3	1	E	0	Early-mature	Fair	Fair	Decaying hollow at base of tree. Fungal fruiting bodies present. Ivy obscuring stems. Branch unions not visible. Leaf cover and vigour good.	Additional detailed arboricultural inspection recommended,Ivy management to facilitate future tree inspections	10 +	C	2	6	112
C05	T4375	1	4	483	Sycamore - Acer pseudoplatanus	12	3	3	4	4	0	NW	0.5	Early-mature	Normal	Moderate	Ivy obscuring much of stems. Decay column in central stem and decay in lower part of northernmost stem. Branch unions good where visible. Vigour and leaf cover good.	Ivy management to facilitate future tree inspections,Additional detailed arboricultural inspection recommended	20 +	B	2	5.8	106
C05	T4376	1	2	654	Sycamore - Acer pseudoplatanus	14	2	3	4	4	1	SW	0.5	Early-mature	Normal	Moderate	Ivy obscuring lower stem. Partially occluded pruning wounds on stem to Southeast. Branch unions good. Good vigour and leaf cover.	Ivy management to facilitate future tree inspections	20 +	B	2	7.8	193
C05	T4377	1	1	440	Sycamore - Acer pseudoplatanus	13	5	3	2	2	4	N	3	Early-mature	Normal	Moderate	Fencing wire embedded in lower stem. Ivy obscuring lower stem. Crown asymmetric to North. Branch unions good. Leaf cover moderate.	Ivy management to facilitate future tree inspections	20 +	B	2	5.3	88
C05	T4378	1	2	341	Sycamore - Acer pseudoplatanus	12	3	4	4	2	0	N	1.5	Early-mature	Normal	Moderate	Ivy obscuring lower stems. Branch unions good where visible. Good vigour and leaf cover.	Ivy management to facilitate future tree inspections	20 +	B	2	4.1	53
C05	T4379	1	2	678	Ash - Fraxinus excelsior	16	6	5	5	4	3	NW	3	Mature	Poor	Fair	Ivy obscuring lower stems. Cankers on stem and main branches. Deadwood present on North side of tree. Very sparsely leaved in upper crown. Reiterative growth from lower branches.	Partially remove the tree leaving a snag (monolith) for wildlife habitat	10 +	C	2	8.1	208
C05	T4380	1	1	780	Sycamore - Acer pseudoplatanus	13	6	6	4	5	2	E	1.5	Mature	Normal	Moderate	Lapsed pollard leaning to North. Codominant from 2m. Ivy obscuring stem and branch unions. Broad spreading crown with good vigour and leaf cover.	Ivy management to facilitate future tree inspections	20 +	B	2	9.4	275
C05	T4381	1	3	675	Sycamore - Acer pseudoplatanus	15	6	5	3	5	2	NW	0	Early-mature	Normal	Moderate	Soil level altered around base of tree. Fungal fruiting bodies (Cerioporus squamosus) growing from enormous pruning wound at base to Southeast. Secondary fungi also present. Partially occluded pruning wounds to South. Crown asymmetric to North. Excellent vigour and leaf cover.	Additional detailed arboricultural inspection recommended	20 +	B	2	8.1	206
C05	T4382	1	2	240	Sycamore - Acer pseudoplatanus	12	4	4	3	4	1	W	0	Early-mature	Normal	Moderate	Growing from base of wall adjacent stream. Branch unions good. Vigour and leaf cover moderate.	No work presently required	10 +	C	2	2.9	26
C05	T4383	1	1	580	Copper Beech - Fagus sylvatica 'Purpurea'	13	3	4	5	4	1	W	3	Early-mature	Poor	Poor	Bark necrosis at base of stem. Fungal fruiting bodies of Ganoderma sp. on lower stem. Large dead limb at West from 1m. Christmas lights entangled in upper stems. Branch unions good. Poor vigour. Sparsely leaved, leaves very small for species.	Remove and grind stump	< 10	U	2	7	152
C05	H4384			50	Ash - Fraxinus excelsior, Hawthorn - Crataegus monogyna, Elm spp - Ulmus spp	2					0		0	Semi-mature	Normal	Moderate	Managed Hawthorn hedge bordering stream on Northwest.	No work presently required	10 +	C	2	0.6	1
C05	T4385	1	1	200	Sycamore - Acer pseudoplatanus	11	3	3	3	4	0	W	1	Early-mature	Normal	Moderate	Growing from stream bank. Ivy obscuring stem and branch unions. Good vigour and leaf cover.	Ivy management to facilitate future tree inspections	20 +	B	2	2.4	18
C05	T4386	1	1	480	Ash - Fraxinus excelsior	13	5	2	6	6	4	S	2	Early-mature	Poor	Poor	Damage to root buttress. Extensive canker throughout crown. Major deadwood from 4m. Leaves chlorotic and sparse. Evidence of Ash dieback.	Partially remove the tree leaving a snag (monolith) for wildlife habitat	10 +	C	2	5.8	104

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C05	T4387	1	1	370	Ash - Fraxinus excelsior	14	2	3	3	4	6	NW	9	Early-mature	Fair	Moderate	Occluded damage to lower stem at North. Partially occluded pruning wound to South. Good branch unions. Minor deadwood throughout crown. Leaf cover sparse.	No work presently required	10 +	C	2	4.4	62
C05	T4388	1	1	450	Sycamore - Acer pseudoplatanus	12	2	3	5	5	4	S	3	Early-mature	Normal	Moderate	Ivy vine growing on stem into crown. Good branch unions where visible. Crown asymmetric. Good vigour and leaf cover.	No work presently required	20 +	B	2	5.4	92
C05	T4389	1	1	340	Ash - Fraxinus excelsior	3	1	1	2	1	2	W	1	Early-mature	Fair	Fair	Previously pollarded tree with large basal cavity. Reiterative growth present.	No work presently required	10 +	C	2	4.1	52
C05	T4390	1	1	390	Horse chestnut - Aesculus hippocastanum	14	1	3	5	5	5	E	3	Early-mature	Normal	Moderate	Partially occluded damage on lower stem to East. asymmetric crown. Good branch unions. Good vigour and leaf cover.	No work presently required	20 +	B	2	4.7	69
C05	T4391	1	1	600	Horse chestnut - Aesculus hippocastanum	14	9	3	3	9	5	NE	1.5	Mature	Normal	Moderate	Good root flare at base. Main branch unions good. Full spreading asymmetric crown. Good vigour and leaf cover. Chestnut leaf miner present.	No work presently required	20 +	B	2	7.2	163
C05	T4392	1	1	560	Horse chestnut - Aesculus hippocastanum	14	5	7	3	2	4	E	2	Mature	Poor	Moderate	Crown asymmetric to East. Considerable dieback throughout upper crown. Branch unions good. Leaves chlorotic. Chestnut leaf miner present.	Clean crown of deadwood and defective branches,Reduce end weight on over extended limbs	10 +	C	2	6.7	142
C05	T4393	1	2	615	Small - leaved Lime - Tilia cordata	18	4	5	3	4	4	S	0	Mature	Normal	Moderate	Codominant stems from base. Included bark at union. Epicormic shoots at base. Occluded wounds on both stems at 6m. Hanging deadwood in lower crown. Good branch unions. Minor deadwood on branch tips. Good vigour and leaf cover.	No work presently required	20 +	B	2	7.4	171
C05	T4394	1	1	980	Horse chestnut - Aesculus hippocastanum	17	5	7	9	7	3	SW	0	Mature	Normal	Good	Good root flare at base of stem on bank of stream. Epicormic growth on lower stem. Good major branch unions. Open spreading crown structure. Good vigour and leaf cover.	No work presently required	40 +	A	2	11.8	434
C05	T4395	1	1	80	Pedunculate oak - Quercus robur	5	2	2	1	1	2	NE	1.5	Young	Fair	Moderate	Tree growing in waterlogged ground. Stake and ties attached. Numerous partially occluded pruning wounds on stem. Extensive minor deadwood throughout crown. Leaf cover sparse. Moderate vigour.	Remove tree tie/stake	10 +	C	2	1	3
C05	T4396	1	1	440	Small - leaved Lime - Tilia cordata	12	4	4	3	3	4	E	0	Early-mature	Good	Moderate	Epicormic shoots surrounding base of stem. Good branch unions. Excellent vigour and leaf cover.	Remove branch conflict with adjacent infrastructure	20 +	B	2	5.3	88
C05	T4397	1	1	680	Sycamore - Acer pseudoplatanus	16	5	2	6	5	2	NW	3	Mature	Good	Good	Ivy present on lower stem. Codominant from 4m with good union. Good branch unions throughout asymmetric crown. Good vigour and leaf cover.	No work presently required	20 +	B	2	8.2	209
C05	T4398	1	1	990	Small - leaved Lime - Tilia cordata	26	7	6	12	7	2	S	0	Mature	Good	Good	Epicormic shoots at base of tree. Partially occluded damage to lowest main branch. Dead ivy present on stem. Good branch unions in open spreading crown. Good vigour and leaf cover.	Remove branch conflict with adjacent infrastructure	40 +	A	2	11.9	443
C05	T4399	1	1	1070	Horse chestnut - Aesculus hippocastanum	27	11	7	7	6	4	W	2	Mature notable	Good	Good	Partially occluded damage to lower stem on North. Soil compaction on North. Codominant from 4m with good union. Good branch unions. Minor deadwood throughout crown. Minor deadwood throughout open spreading crown. Good vigour and leaf cover.Chestnut leaf miner present,.	Shorten deadwood	40 +	A	2	12.8	518
C05	T4400	1	1	680	Wych Elm - Ulmus glabra	17	3	4	5	5	4	W	0	Mature	Normal	Moderate	Growing from bank of stream Epicormic growth at base. Partially occluded pruning wounds on lower stem. Codominant from 1.5m with included bark and reaction wood. Deadwood present in crown at Northeast. Good vigour and leaf cover.	Shorten deadwood	20 +	B	2	8.2	209
C05	T4401	1	1	360	Sycamore - Acer pseudoplatanus	12	2	2	4	3	5	W	2	Early-mature	Normal	Moderate	Codominant from 2m. Good branch unions. Good vigour and leaf cover.	No work presently required	20 +	B	2	4.3	59
C05	T4402	1	1	760	Horse chestnut - Aesculus hippocastanum	15	9	11	8	5	2	E	2	Mature	Good	Moderate	Tree forks at 2m with good unions. Open spreading crown with good branch unions. Chestnut leaf miner present. Good vigour and leaf cover.	No work presently required	20 +	B	2	9.1	261
C05	T4403	1	1	680	Common Beech - Fagus sylvatica	21	8	8	7	5	5	W	2	Mature	Good	Good	Soil compaction on South. Good root flare. Numerous names carved into bark. Good branch unions and structure in open spreading crown. Good vigour and leaf cover.	No work presently required	40 +	A	3	8.2	209

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C05	T4404	1	1	1360	Sycamore - Acer pseudoplatanus	20	8	9	5	4	3	E	1.5	Mature notable	Good	Moderate	Good flare at base of stem. Ivy on lower stem. Evidence of historic storm damage at 6m on East. Historic extensive pruning on West. Codominant from 5m with good union. Good branch unions throughout crown. Good vigour and leaf cover.	No work presently required	40 +	A	2	16.3	837
C05	T4405	1	2	371	Elm spp - Ulmus spp	12	1	5	6	2	5	S	3	Early-mature	Poor	Moderate	Codominant tree with natural bracing. Ivy present on lower stem. Leaves dying from Elm disease.	Partially remove the tree leaving a snag (monolith) for wildlife habitat	10 +	C	2	4.5	62
C05	T4406	1	1	170	Elm spp - Ulmus spp	12	1	5	1	1	7	W	2	Early-mature	Normal	Moderate	Ivy covered stem. Tree leaning to East.	No work presently required	10 +	C	2	2	13
C05	T4407	1	1	460	Common Beech - Fagus sylvatica	18	6	3	7	6	6	W	2	Early-mature	Normal	Moderate	Good flare at base. Stem lean to West. Good branch unions. Good vigour and leaf cover.	No work presently required	20 +	B	2	5.5	96
C05	T4408	1	1	650	Horse chestnut - Aesculus hippocastanum	18	7	7	6	5	3	SW	2	Early-mature	Normal	Moderate	Ivy obscuring stem and main union.Good branch unions where visible. Good vigour and leaf cover.	No work presently required	20 +	B	2	7.8	191
C05	T4409	1	1	920	Pedunculate oak - Quercus robur	22	8	8	9	9	5	E	3	Mature	Good	Good	Partially occluded cavity at base of tree on Northwest. Partially occluded cavity on lower stem at East. Good branch unions throughout crown. Minor deadwood present throughout crown. Open spreading crown structure. Good vigour and leaf cover.	No work presently required	40 +	A	2	11	383
C05	T4410	1	1	90	Pedunculate oak - Quercus robur	6	2	2	2	1	2	N	2.5	Young	Normal	Moderate	Good branch unions. Open spreading crown. Good leaf size and cover. Vigorous growth. Stake attached.	Remove tree tie/stake	20 +	B	2	1.1	4
C05	T4411	1	2	494	Alder - Alnus glutinosa	15	4	3	5	4	5	S	3	Mature	Good	Moderate	Codominant stems from 1m. Reaction wood present. Ivy on lower stem. Good branch unions. Good vigour and leaf cover.	No work presently required	20 +	B	2	5.9	110
C05	T4412	1	9	292	Sycamore - Acer pseudoplatanus	14	5	3	5	4	4	SW	3	Early-mature	Normal	Moderate	Multi-stemmed tree growing from stream bank. Dense spreading crown. Some Ivy present. Good vigour and leaf cover.	No work presently required	20 +	B	2	3.5	39
C05	T4413	1	1	420	Sycamore - Acer pseudoplatanus	14	4	3	4	5	5	W		Early-mature	Normal	Moderate	Ivy obscuring lower stem. Asymmetric crown with good branch unions. Minor deadwood present. Good vigour and leaf cover.	No work presently required	20 +	B	2	5	80
C05	T4414	1	2	325	Alder - Alnus glutinosa	14	2	2	5	4	10	NW	0	Early-mature	Normal	Moderate	Epicormic growth at base of stems. Codominant from 1m. Minor deadwood in upper crown. Good vigour and leaf cover.	No work presently required	20 +	B	2	3.9	48
C05	T4415	1	1	460	Sycamore - Acer pseudoplatanus	15	3	3	5	4	4	SE	2	Early-mature	Normal	Moderate	Good flare at base of stem. Codominant from 7m with good union. Good branch unions, vigour and leaf cover.	No work presently required	20 +	B	2	5.5	96
C05	T4416	1	1	310	Sycamore - Acer pseudoplatanus	13	3	3	4	3	3	N	3	Early-mature	Normal	Moderate	Ivy on lower stem. Good flare at base. Vigorous crown with good leaf cover.	No work presently required	20 +	B	2	3.7	43
C05	T4417	1	1	340	Sycamore - Acer pseudoplatanus	14	2	3	3	4	5	SE	0	Early-mature	Normal	Moderate	Dead Ivy obscuring stem. Epicormic growth at base. Good branch unions. Good vigour and leaf.	No work presently required	20 +	B	2	4.1	52
C05	T4418	1	1	340	Sycamore - Acer pseudoplatanus	12	3	3	5	4	4	SE	0	Early-mature	Normal	Moderate	Epicormic growth at base at South. Good branch unions. Good vigour and leaf cover.	No work presently required	20 +	B	2	4.1	52
C05	T4419	1	1	420	Sycamore - Acer pseudoplatanus	13	3	3	5	4	4	S	3	Early-mature	Normal	Moderate	Codominant stems from 4m. Major deadwood from 4m. Moss and ferns colonising crown. Good branch unions. Good vigour and leaf cover.	Shorten deadwood	20 +	B	2	5	80
C05	T4420	1	1	460	Sycamore - Acer pseudoplatanus	15	3	3	6	2	3	SE	2	Early-mature	Good	Moderate	Asymmetric crown to South. Good branch unions. Excellent vigour and leaf cover.	No work presently required	20 +	B	2	5.5	96
C05	T4421	1	1	460	Sycamore - Acer pseudoplatanus	14	3	6	6	1	4	SE	2	Early-mature	Normal	Moderate	Codominant stems from 2m with good union. Good branch unions in asymmetric crown. Vigorous growth and good leaf cover.	No work presently required	20 +	B	2	5.5	96
C05	T4422	1	2	341	Ash - Fraxinus excelsior	13	2	2	6	7	4	NW	0	Early-mature	Normal	Moderate	Asymmetric crown with stems leaning to West and South. Vigorous growth with good leaf cover.	No work presently required	20 +	B	2	4.1	53
C05	T4423	1	1	620	Sycamore - Acer pseudoplatanus	15	1	4	8	4	6	S	7	Mature	Normal	Moderate	Ivy obscuring stem. Codominant from 4m. Union not visible. Crown asymmetric to South. Major deadwood overhanging footpath from 7m. Good vigour and leaf cover.	Remove deadwood,Ivy management to facilitate future tree inspections	20 +	B	2	7.4	174
C05	T4424	1	1	930	Horse chestnut - Aesculus hippocastanum	18	6	7	7	4	5	NE	3	Mature	Normal	Fair	Spreading buttress with partially occluded damage at South. Large partially occluded wound at base on East. Lower stem leans to East. Good branch unions. Broad spreading crown with good vigour and leaf cover.	Additional detailed arboricultural inspection recommended	20 +	B	2	11.2	391



Water course Identifier	Feature ID	No of Trees	Stem Count	Stem Diameter (mm)	Tree Species	Height (m)	Crown Spread N (m)	Crown Spread E (m)	Crown Spread S (m)	Crown Spread W (m)	FSB ht (m)	FSB Dir	Canopy clearance ht (m)	Life stage	Vitality Class	Structural Condition	Observations	Preliminary management recommendations	Remaining contribution in yrs	Retention Category	Retention Sub category	RPR-Root Protection Radius (m)	RPA-Root Protection Area (m²)
C05	T4425	1	1	1120	Sycamore - Acer pseudoplatanus	26	9	10	7	7	4	SE	2	Mature notable	Good	Moderate	Well formed buttresses. Codominant stems from 2m with reaction wood present. Larger stem forking at 6m with good unions. Open spreading crown colonised with moss and ferns. Minor deadwood in lower crown over footpath. Good vigour and leaf cover.	Remove deadwood	40 +	A	2	13.4	567
C05	T4426	1	1	640	Sycamore - Acer pseudoplatanus	20	4	6	7	4	4	N	3	Mature	Normal	Moderate	Well formed buttresses. Ivy obscuring main branch union at 2m. Good branch unions where visible. Full spreading asymmetric crown with good vigour and leaf cover.	Ivy management to facilitate future tree inspections	20 +	B	2	7.7	185
C05	T4427	1	1	550	Sycamore - Acer pseudoplatanus	18	4	3	2	2	6	SW	4	Early-mature	Fair	Moderate	Large burrs on lower stem. Ivy present to 5m. Minimal branch formation in lower crown. Leaf cover good in upper crown.	Ivy management to facilitate future tree inspections	20 +	B	2	6.6	137
C05	T4428	1	2	702	Horse chestnut - Aesculus hippocastanum	21	8	7	4	3	3	W	2	Mature	Normal	Moderate	Codominant stems from 1m. Northernmost stem sweeping to North across footpath. Major deadwood overhanging footpath with fungal fruiting bodies (Daldinia concentrica) present. Good branch unions. Good vigour and leaf cover.	Remove deadwood	20 +	B	2	8.4	223
C05	T4429	1	1	740	Sycamore - Acer pseudoplatanus	21	4	5	5	5	4	W	2	Mature	Normal	Moderate	Well formed buttresses. Ivy present on lower stem. Codominant from 2m with little reaction growth. Good branch unions. Good vigour and leaf cover.	No work presently required	20 +	B	2	8.9	248
C05	T4430	1	1	650	Sycamore - Acer pseudoplatanus	22	3	7	4	4	5	SE	5	Mature	Normal	Moderate	Ivy obscuring major branch unions. Large burr on union at 7m. Moderate leaf cover in upper crown. Good branch unions where visible.	Ivy management to facilitate future tree inspections	20 +	B	2	7.8	191
C05	T4431	1	1	420	Sycamore - Acer pseudoplatanus	20	3	3	5	2	2	S	3	Mature	Normal	Moderate	Well formed buttresses. Ivy obscuring stem to 7m. Good branch unions. Good vigour and leaf cover.	Ivy management to facilitate future tree inspections	20 +	B	2	5	80
C05	T4432	1	1	320	Sycamore - Acer pseudoplatanus	18	3	4	4	3	2	SW	3	Early-mature	Normal	Moderate	Well formed buttresses. Good major branch unions. Good leaf cover and vigour.	No work presently required	20 +	B	2	3.8	46
C05	T4433	1	1	470	Sycamore - Acer pseudoplatanus	20	2	5	3	3	2	N	2	Mature	Normal	Moderate	Codominant stems from 10m with good union. Good branch unions throughout narrow crown. Minor deadwood present. Good vigour and leaf cover.	No work presently required	20 +	B	2	5.6	100
C05	T4434	1	1	540	Sycamore - Acer pseudoplatanus	21	4	7	7	2	4	E	3	Mature	Normal	Moderate	Well formed buttresses. Exposed surface roots on North with reaction growth on lower stem to South. Ivy obscuring branch unions to 10m. Branch unions good where visible. Full asymmetric crown with good vigour and leaf cover.	No work presently required	20 +	B	2	6.5	132
C05	T4435	1	1	1010	Common Beech - Fagus sylvatica	9	5	5	4	6	4	W	1	Mature notable	Normal	Moderate	Enormous well formed buttresses. Tree has been pollarded at 9m. Ivy on stem to 6m. Vigorous reiterative growth throughout crown.	No work presently required	20 +	B	2	12.1	461
C05	T4436	1	1	770	Sycamore - Acer pseudoplatanus	23	5	2	5	7	9	SE	6	Mature	Good	Moderate	Well formed buttresses. Clear stem to 9m. Good branch unions throughout crown. Asymmetrical due to historic suppression. Good vigour and leaf cover.	No work presently required	40 +	A	2	9.2	268
C05	T4437	1	1	580	Horse chestnut - Aesculus hippocastanum	21	4	5	6	9	4	SW	2	Mature	Fair	Moderate	Vertical cracks on lower stem, partially occluded with strips of dead bark attached. Historic pruning wounds to lowest branches on Southwest. Good branch unions throughout crown. Good vigour and leaf cover.Chest ut leaf miner present.	No work presently required	20 +	B	2	7	152
C05	T4438	1	1	440	Sycamore - Acer pseudoplatanus	18	7	5	5	4	12	SE	12	Early-mature	Normal	Moderate	Well formed buttresses. Partially occluded wound on lower stem to North. Clear stem to 12m. Good branch unions. Crown vigorous with good leaf cover.	No work presently required	20 +	B	2	5.3	88
C05	T4439	1	1	440	Sycamore - Acer pseudoplatanus	20	6	4	5	2	10	SE	8	Mature	Normal	Moderate	Well formed buttresses. Stem leans to Northwest in a series of curves to 10m. Good branch unions throughout crown. Good vigour and leaf cover.	No work presently required	20 +	B	2	5.3	88
C05	T4440	1	1	590	Sycamore - Acer pseudoplatanus	24	5	3	5	5	13	S	12	Mature	Good	Moderate	Well formed buttresses. Ivy obscuring lower stem. Stem clear to 13m. Good branch unions throughout compact crown. Good vigour and leaf cover.	No work presently required	20 +	B	2	7.1	157
C05	T4441	1	1	1070	Small - leaved Lime - Tilia cordata	25	7	7	7	6	2	NW	0	Mature notable	Good	Moderate	Epicormic growth at base of tree. Codominant from 6m with good union. Shoot growth throughout crown typical for species with good vigour and leaf cover.	No work presently required	40 +	A	2	12.8	518
C05	T4442	1	1	570	Sycamore - Acer pseudoplatanus	24	7	7	4	5	14	N	6	Mature	Normal	Moderate	Epicormic growth at base of tree. Ivy on stem to 8m. Codominant from 5m with reaction growth present. Deadwood overhanging footpath at 15m. Good branch unions throughout crown. Good vigour and leaf cover.	Remove deadwood,Ivy management to facilitate future tree inspections	20 +	B	2	6.8	147

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C05	T4443	1	1	980	Horse chestnut - Aesculus hippocastanum	24	10	9	7	8	7	N	2	Mature notable	Good	Good	Well formed buttresses with minor occluded damage to North. Epicormic growth around base and lower stem. Good branch unions in broad spreading crown. Good vigour and leaf cover.	No work presently required	40 +	A	2	11.8	434
C05	T4444	1	1	540	Sycamore - Acer pseudoplatanus	22	6	5	5	6	10	S	10	Mature	Normal	Fair	Well formed buttresses. Ivy on lower stem to 5m. Codominant from 6m. Union is damaged with bark necrosis present. Good branch unions in upper crown.	Additional detailed arboricultural inspection recommended	20 +	B	2	6.5	132
C05	T4445	1	1	890	Sycamore - Acer pseudoplatanus	24	8	9	8	10	10	NE	9	Mature	Normal	Good	Well formed buttresses. Partially occluded pruning wound on West at 3m. Codominant stems from 6m with good union. Good branch unions throughout crown. Colonised with moss and ferns. Branch overhanging footpath with dead tip. Minor deadwood in crown. Good vigour and leaf cover.	Remove fractured limb(s)	40 +	A	2	10.7	358
C05	T4446	1	1	600	Sycamore - Acer pseudoplatanus	23	4	5	6	6	10	S	9	Mature	Good	Moderate	Well formed buttresses. Codominant from 12m with good union. Good branch unions throughout crown. Good vigour and leaf cover.	No work presently required	20 +	B	2	7.2	163
C05	T4447	1	1	680	Horse chestnut - Aesculus hippocastanum	21	5	5	5	5	5	S	3	Mature	Normal	Moderate	Well formed buttresses. Lowest branch on South has historic pruning wounds. Branch unions good throughout crown. Good vigour and leaf cover.	No work presently required	20 +	B	2	8.2	209
C05	T4448	1	1	880	Horse chestnut - Aesculus hippocastanum	24	8	10	10	9	3	SE	2	Mature	Good	Moderate	Well formed buttresses. Codominant stems from 2m on West with included bark. Evidence of natural bracing in upper crown. Good branch unions. Good vigour and leaf cover.Chestnut leaf miner present.	No work presently required	20 +	B	2	10.6	350
C05	T4449	1	1	840	Sycamore - Acer pseudoplatanus	23	7	6	7	8	5	S	3	Mature	Good	Good	Well formed buttresses. Ivy obscuring stem to 6m. Branch on South at 6m has partially occluded tearout. Good unions throughout crown. Good vigour and leaf cover.	No work presently required	40 +	A	2	10.1	319
C05	T4450	1	1	650	Horse chestnut - Aesculus hippocastanum	20	6	6	5	7	4	W	2	Mature	Normal	Moderate	Well formed buttresses. Stem leans to East. Good branch unions. Good vigour and leaf cover. Chestnut leaf miner present.	No work presently required	20 +	B	2	7.8	191
C05	T4451	1	1	450	Sycamore - Acer pseudoplatanus	18	7	4	4	4	5	N	5	Early-mature	Normal	Moderate	Bird box nailed to tree at 3m. Good branch unions. Compact crown with good leaf cover and vigour.	No work presently required	20 +	B	2	5.4	92
C05	TG4452	15		300	Ash - Fraxinus excelsior, Horse chestnut - Aesculus hippocastanum	12					0		0	Early-mature	Poor	Fair	Group of 15 trees with understorey of Hazel, Grey Willow and Alder within fenced area.	No work presently required	10 +	C	2	3.6	41
C05	T4453	1	1	610	Common Beech - Fagus sylvatica	20	2	4	7	6	8	S	2	Mature	Normal	Moderate	Stem leans to South with evidence of historic movement around rootplate. Good branch unions throughout crown. Leaves smaller than normal for species.	Additional detailed arboricultural inspection recommended	20 +	B	2	7.3	168
C05	T4454	1	1	420	Sycamore - Acer pseudoplatanus	17	1	3	5	4	10	SE	10	Early-mature	Normal	Fair	Large partially occluded wound at 2m on South. Codominant from 6m with good union. Minor deadwood throughout crown. Good vigour and leaf cover throughout compact crown.	Additional detailed arboricultural inspection recommended	20 +	B	2	5	80
C05	T4455	1	1	420	Sycamore - Acer pseudoplatanus	14	4	0	5	7	4	W	5	Early-mature	Normal	Moderate	Crown asymmetric to West due to suppression by neighbouring tree. Good branch structure. Good vigour and leaf cover.	No work presently required	20 +	B	2	5	80
C05	T4456	1	1	980	Pedunculate oak - Quercus robur	25	7	10	13	6	12	SE	3	Mature notable	Good	Good	Reiterative growth from pruning wounds on stem to 10m. Asymmetric crown spreading southwards with good branch unions, good vigour and leaf cover.	No work presently required	40 +	A	2	11.8	434
C05	T4457	1	2	637	Sycamore - Acer pseudoplatanus	15	5	4	4	5	12	N	7	Early-mature	Normal	Moderate	Codominant from ground level with partially occluded cavity on Easternmost stem at base. Both stems codominant from 6m with good unions. Good branch unions throughout crown. Minor deadwood present. Good vigour and leaf cover.	No work presently required	20 +	B	2	7.6	184
C05	T4458	1	1	470	Horse chestnut - Aesculus hippocastanum	15	7	5	6	5	3	SW	3	Mature	Fair	Fair	Partially occluded damage to lower stem at Southeast. Good branch unions. Sparsely leaved with dieback in upper crown. Poor vigour.	No work presently required	10 +	C	2	5.6	100
C05	T4459	1	1	540	Horse chestnut - Aesculus hippocastanum	19	6	6	5	6	3	SE	3	Mature	Normal	Moderate	Historic storm damage in crown to East at 9m. Codominant stems from 10m with good union. Good vigour and leaf cover.	No work presently required	20 +	B	2	6.5	132
C05	T4460	1	1	860	Horse chestnut - Aesculus hippocastanum	18	7	7	6	8	5	N	2	Mature	Normal	Fair	Well formed buttresses. Epicormic shoots on lower stem. Historic and current storm damage present with large limb hanging in tree and resting on ground at East. Good branch unions throughout crown. Good vigour and leaf cover.	Remove fractured limb(s),Remove deadwood	20 +	B	1	10.3	335



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C05	T4461	1	2	762	Sycamore - Acer pseudoplatanus	21	6	5	5	5	10	S	5	Mature	Normal	Moderate	2 stems from ground level. Smaller Northern stem curving to North. Southern stem upright and enveloped in dead Ivy. Good branch unions. Good vigour and leaf cover.	No work presently required	20 +	B	2	9.1	263
C05	T4462	1	1	700	Sycamore - Acer pseudoplatanus	18	6	5	5	4	8	E	7	Mature	Normal	Moderate	Well formed buttresses with some bark damage to North. Well proportioned crown with good branch unions. Minor deadwood on West at 10m. Good vigour and leaf cover.	No work presently required	20 +	B	2	8.4	222
C05	T4463	1	1	680	Sycamore - Acer pseudoplatanus	19	6	4	4	5	4	N	3	Mature	Normal	Moderate	Well formed buttresses. Crown opens at 3m into 3 stems with good union. Good branch unions in upper crown. Minor deadwood at 10m. Good vigour and leaf cover.	No work presently required	20 +	B	2	8.2	209
C05	T4464	1	2	528	Sycamore - Acer pseudoplatanus	19	3	3	4	2	8	W	7	Mature	Normal	Moderate	Codominant stems from 0.5m with good union. Southernmost stem with decaying broken branch at 3m. Good branch unions. Good vigour and leaf cover.	No work presently required	20 +	B	2	6.3	126
C05	T4465	1	1	760	Sycamore - Acer pseudoplatanus	19	5	4	5	6	4	E	2	Mature	Normal	Moderate	Codominant stems from 1.5m. Westernmost stem dominates with good branch unions on both stems. Partially occluded cavity on base at North. Good vigour and leaf cover.	No work presently required	20 +	B	2	9.1	261
C05	T4466	1	1	600	Sycamore - Acer pseudoplatanus	20	5	6	8	6	4	E	0	Mature	Normal	Moderate	Well formed buttresses. Codominant from 7m with ferns colonising the union. Good branch unions throughout crown. Good vigour and leaf cover.	No work presently required	20 +	B	2	7.2	163
C05	T4467	1	1	480	Sycamore - Acer pseudoplatanus	20	4	4	4	5	3	N	2	Mature	Normal	Moderate	Well formed buttresses. Partially occluded wound on lower stem at Northeast. Good branch unions throughout crown. Good vigour and leaf cover.	No work presently required	20 +	B	2	5.8	104
C05	T4468	1	1	870	Horse chestnut - Aesculus hippocastanum	19	3	4	7	7	3	S	1	Mature	Normal	Good	Well formed buttresses. Minor partially occluded bark damage to Northwest at base. Codominant from 6m with good union. Good branch unions throughout crown. Good vigour and leaf cover. Chestnut leaf miner present.	No work presently required	40 +	A	2	10.4	342
C05	T4469	1	1	690	Horse chestnut - Aesculus hippocastanum	19	7	8	8	5	4	SW	0.5	Mature	Normal	Moderate	Well formed buttresses. Ivy present on lower stem. Dead branch tip on lower branch to Southeast. Branch unions good. Minor deadwood in upper crown. Good vigour and leaf cover. Chestnut leaf miner present.	No work presently required	20 +	B	2	8.3	215
C05	T4470	1	1	690	Horse chestnut - Aesculus hippocastanum	18	8	4	4	6	4	E	1	Mature	Fair	Moderate	Well formed buttresses with partially occluded wounds on lower stem to South. Partially occluded vertical crack in stem to South at 7m. Branch unions good throughout crown. Leaf cover sparse. Chestnut leaf miner present.	No work presently required	20 +	B	2	8.3	215
C05	T4471	1	1	930	Sycamore - Acer pseudoplatanus	21	6	5	6	6	10	S	5	Mature	Good	Moderate	Well formed buttresses. Codominant stems from 0.5m. Included bark at union with reaction wood. Epicormic shoots at base on North. Good branch unions throughout open spreading crown. Good vigour and leaf cover.	No work presently required	20 +	B	2	11.2	391
C05	T4472	1	1	410	Sycamore - Acer pseudoplatanus	18	5	6	6	1	7	E	4	Early-mature	Normal	Moderate	Well formed buttresses. Epicormic growth at base. Major deadwood at 5m to Northeast. Good branch unions throughout asymmetric crown. Good vigour and leaf cover.	No work presently required	20 +	B	2	4.9	76
C05	T4473	1	1	770	Horse chestnut - Aesculus hippocastanum	22	5	8	8	5	4	SE	1	Mature	Normal	Good	Well formed buttresses. Ivy obscuring base of stem to 3m. Good major and secondary branch unions throughout open spreading crown. Partially occluded vertical wound on stem to Northwest at 5m. Good vigour and leaf cover. Chestnut leaf miner present.	No work presently required	40 +	A	2	9.2	268
C05	T4474	1	1	850	Small - leaved Lime - Tilia cordata	25	5	6	5	5	4	SW	0	Mature	Good	Good	Epicormic growth obscuring base of stem. Full dense columar crown with minor deadwood at top to South. Good branch unions where visible. Ivy present throughout crown. Excellent vigour and leaf cover.	Ivy management to facilitate future tree inspections	40 +	A	2	10.2	327
C05	T4475	1	1	870	Sycamore - Acer pseudoplatanus	21	6	6	5	6	5	W	4	Mature	Fair	Moderate	Well formed buttresses. Ivy obscuring stem to 10m. Codominant from 6m. Union not visible. Deadwood present at Southeast from 8m. Bark necrosis on lower stem to North. Branch unions good. Sparsely leaved with dead branch tips throughout crown. Poor vigour.	Additional detailed arboricultural inspection recommended	20 +	C	2	10.4	342

Water course Identifier	Feature ID	No of Trees	Stem Count	Stem Diameter (mm)	Tree Species	Height (m)	Crown Spread N (m)	Crown Spread E (m)	Crown Spread S (m)	Crown Spread W (m)	FSB ht (m)	FSB Dir	Canopy clearance ht (m)	Life stage	Vitality Class	Structural Condition	Observations	Preliminary management recommendations	Remaining contribution in yrs	Retention Category	Retention Sub category	RPR-Root Protection Radius (m)	RPA-Root Protection Area (m²)
C05	T4476	1	1	870	Horse chestnut - Aesculus hippocastanum	23	10	5	7	8	3	NW	2	Mature	Normal	Moderate	Well formed buttresses. Reiterative growth from pruning wounds on lower stem to East. Vertical cracking on stem to North with occlusion. Lowest branch sweeping northwards across footpath. Codominant from 5m with good union. Good branch unions throughout crown. Good vigour and leaf cover. Chestnut leaf miner present.	Reduce end weight on over extended limbs	20 +	B	2	10.4	342
C05	T4477	1	1	500	Sycamore - Acer pseudoplatanus	19	5	3	4	5	4	NE	0	Early-mature	Normal	Moderate	Epicormic growth at base of stem. Ivy on stem to 9m. Good branch unions in upper crown. Good vigour and leaf cover.	No work presently required	20 +	B	2	6	113
C05	T4478	1	1	370	Sycamore - Acer pseudoplatanus	15	6	4	1	5	6	NW	3	Early-mature	Normal	Moderate	Well formed buttresses. Ivy obscuring stem to 6m. Crown extremely asymmetric to North with epicormic growth on stem to 8m. Good vigour and branch unions.	Ivy management to facilitate future tree inspections	20 +	B	2	4.4	62
C05	T4479	1	1	420	Sycamore - Acer pseudoplatanus	21	4	3	4	4	9	E	9	Mature	Normal	Moderate	Epicormic growth on lower stem. Evidence of historic damage to first main branch. Branch unions good throughout symmetrical compact crown. Good vigour and leaf cover.	No work presently required	20 +	B	2	5	80
C05	T4480	1	1	420	Sycamore - Acer pseudoplatanus	20	4	3	1	4	8	N	7	Mature	Normal	Moderate	Well formed buttresses. Epicormic growth on base at Northwest. Ivy obscuring stem to 7m. Minor deadwood on stem from 7m. Good branch unions throughout crown. Good vigour and leaf cover.	No work presently required	20 +	B	2	5	80
C05	T4481	1	1	470	Sycamore - Acer pseudoplatanus	21	4	1	3	4	18	S	9	Mature	Normal	Moderate	Well formed buttresses. Epicormic growth at base of stem. Codominant stems from 6m with good union. Epicormic growth on upper stems. Major deadwood overhanging footpath at 16m. Good branch unions throughout compact crown. Good vigour and leaf cover.	Remove deadwood	20 +	B	2	5.6	100
C05	T4482	1	1	600	Sycamore - Acer pseudoplatanus	22	7	6	2	5	4	N	4	Mature	Normal	Moderate	Well formed buttresses. Ivy obscuring stem to 5m. Codominant stems from 5m with good union. Major deadwood from 6m to Northeast. Branch unions good throughout crown. Good vigour and leaf cover.	Shorten deadwood,Ivy management to facilitate future tree inspections	20 +	B	2	7.2	163
C05	T4483	1	1	540	Sycamore - Acer pseudoplatanus	22	5	7	4	5	9	NE	6	Mature	Normal	Moderate	Ivy obscuring stem to 4m. Codominant from 4m with union not visible. Minor deadwood throughout crown. Branch unions good. Good vigour and leaf cover.	No work presently required	20 +	B	2	6.5	132
C05	T4484	1	2	684	Sycamore - Acer pseudoplatanus	21	6	7	5	5	8	NE	3	Mature	Normal	Moderate	Well formed buttresses. Twin stemmed from ground level. Ivy covered to 8m. Northernmost stem codominant at 8m. Minor deadwood on southern stem from 10m. Good branch unions throughout crown. Good vigour and leaf cover.	Ivy management to facilitate future tree inspections	20 +	B	2	8.2	212
C05	T4485	1	2	522	Sycamore - Acer pseudoplatanus	20	5	6	6	4	6	NE	2.5	Mature	Normal	Moderate	Twin stemmed from ground level with well formed buttresses. Ivy obscuring stems to 9m. Epicormic growth to 9m. Minor deadwood throughout crown. Good branch unions. Good vigour and leaf cover.	Ivy management to facilitate future tree inspections	20 +	B	2	6.3	123
C05	T4486	1	1	730	Sycamore - Acer pseudoplatanus	22	7	5	7	7	13	NW	13	Mature	Good	Moderate	Well formed buttresses. Ivy obscuring stem to 9m. Codominant from 6m, union not visible. Stem colonised with moss and ferns. Minor deadwood throughout crown. Good branch unions. Good vigour and leaf cover.	Ivy management to facilitate future tree inspections	20 +	B	2	8.8	241
C05	T4487	1	2	631	Sycamore - Acer pseudoplatanus	21	8	5	5	6	3	NE	3.5	Mature	Normal	Moderate	Twin stemmed from ground level with included bark and reaction wood. Well formed buttresses with occluded damage on South. Ivy obscuring stems to 6m. Bird box attached at 3m. Good branch unions where visible. Minor deadwood throughout crown. Good vigour and leaf cover.	Ivy management to facilitate future tree inspections	20 +	B	2	7.6	180
C05	T4488	1	1	700	Sycamore - Acer pseudoplatanus	20	7	8	7	5	3	SE	2	Mature	Normal	Moderate	Well formed buttresses. Ivy obscuring stem to 4m. Stem leans to Northeast. Minor deadwood throughout crown. Good branch unions. Good vigour and leaf cover.	Ivy management to facilitate future tree inspections	20 +	B	2	8.4	222
C05	T4489	1	1	740	Sycamore - Acer pseudoplatanus	18	7	4	5	6	7	W	0	Mature	Normal	Moderate	Epicormic growth at base of tree and stem to 10m. Ivy obscuring stem to 10m. Branch unions good where visible. Vigorous dense crown with good leaf cover.	Ivy management to facilitate future tree inspections	20 +	B	2	8.9	248
C05	T4490	1	1	470	Sycamore - Acer pseudoplatanus	17	8	3	3	7	6	NE	0	Mature	Normal	Moderate	Epicormic growth from base to 9m. Ivy obscuring stem to 9m. Moss and ferns colonising crown from 9m. Good branch unions where visible. Good vigour and leaf cover.	Ivy management to facilitate future tree inspections	20 +	B	2	5.6	100

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C05	T4491	1	1	710	Sycamore - Acer pseudoplatanus	18	8	7	8	4	8	E	0	Mature	Normal	Moderate	Well formed buttresses. Epicormic growth at base. Ivy obscuring stem to 6m. Moss and ferns colonising from 6m. Crown spreads at 7m with good unions throughout. Good vigour and leaf cover.	Ivy management to facilitate future tree inspections	20 +	B	2	8.5	228
C05	T4492	1	1	640	Sycamore - Acer pseudoplatanus	19	3	6	8	5	4	S	2	Mature	Normal	Moderate	Well formed buttresses. Epicormic growth at base of stem. Ivy on stem to 6m. Minor deadwood on stem to South at 6m. Good branch unions throughout crown. Good vigour and leaf cover.	Ivy management to facilitate future tree inspections	20 +	B	2	7.7	185
C05	T4493	1	1	740	Sycamore - Acer pseudoplatanus	21	8	7	7	8	4	SE	2	Mature	Good	Moderate	Well formed buttresses. Epicormic growth at base of stem. Codominant stems from 10m with good union. Moss and ferns colonising from 10m. Included union at 10m with reaction wood present. Good branch unions throughout crown. Excellent vigour and leaf cover.	No work presently required	20 +	B	2	8.9	248
C05	T4494	1	1	990	Sycamore - Acer pseudoplatanus	20	6	5	5	6	9	W	0	Mature	Good	Moderate	Well formed buttresses. Reiterative growth from large pruning wound to North at 1.5m. Codominant stems from 7m with good union. Moss and ferns colonising from 7m. Good branch unions where visible through dense crown. Excellent vigour and leaf cover.	No work presently required	20 +	B	2	11.9	443
C05	T4495	1	1	440	Horse chestnut - Aesculus hippocastanum	17	2	3	7	7	5	W	0.5	Early-mature	Normal	Moderate	Well formed buttresses. Partially occluded wound on lower stem to South. Epicormic growth on lower stem. Stem leans to Southwest. Good branch unions throughout crown. Good vigour and leaf cover.	No work presently required	20 +	B	2	5.3	88
C05	T4496	1	2	657	Sycamore - Acer pseudoplatanus	20	7	5	3	5	5	N	3	Mature	Normal	Moderate	Codominant stems from ground level with included union with reaction wood. Pruning cut near base on Northwest. Reiterative growth on stem from 3m. Westernmost stem codominant from 4m with good union. Minor deadwood from 7m. Good branch unions throughout crown. Good vigour and leaf cover.	Ivy management to facilitate future tree inspections	20 +	B	2	7.9	195
C05	T4497	1	1	810	Horse chestnut - Aesculus hippocastanum	19	7	6	5	8	4	W	1	Mature	Normal	Moderate	Well formed buttresses. Partially occluded damage on base on South and North. Crown forks at 4m with good union. Good branch unions throughout crown. Slightly sparsely leaved. Chestnut leaf miner present.	No work presently required	20 +	B	2	9.7	297
C05	T4498	1	1	810	Horse chestnut - Aesculus hippocastanum	19	6	5	8	8	3	SW	0.5	Mature	Normal	Moderate	Well formed buttresses. Ivy obscuring stem and much of crown. Main unions not visible. Branch unions good where visible. Good vigour and leaf cover. Chestnut leaf miner present.	Ivy management to facilitate future tree inspections	20 +	B	2	9.7	297
C05	T4499	1	1	400	Sycamore - Acer pseudoplatanus	17	6	4	6	6	6	W	4	Mature	Good	Moderate	Well formed buttresses. Ivy obscuring stem to 6m. Codominant stems from 6m with good union. Good branch unions throughout dense crown. Excellent vigour and leaf cover.	Ivy management to facilitate future tree inspections	20 +	B	2	4.8	72
C05	T4500	1	1	640	Sycamore - Acer pseudoplatanus	18	6	4	5	5	9	E	9	Mature	Good	Good	Well formed buttresses. Ivy obscuring stem to 7m. Crown forks at 10m with good union. Good branch unions throughout well proportioned crown. Good vigour and leaf cover.	Ivy management to facilitate future tree inspections	20 +	B	2	7.7	185
C05	T4501	1	1	700	Sycamore - Acer pseudoplatanus	19	5	5	5	5	8	NE	7	Mature	Good	Moderate	Well formed buttresses. Codominant stems at 7m with good union. Well proportioned crown with good branch unions throughout. Good vigour and leaf cover.	No work presently required	20 +	B	2	8.4	222
C05	T4502	1	1	420	Sycamore - Acer pseudoplatanus	18	5	5	2	5	4	E	2	Early-mature	Normal	Moderate	Well formed buttresses with epicormic growth. Good branch unions throughout crown. Good vigour and leaf cover.	No work presently required	20 +	B	2	5	80
C05	T4503	1	1	620	Sycamore - Acer pseudoplatanus	19	5	5	5	5	6	NE	5	Mature	Good	Good	Growing with dead Wych Elm at base. Ivy obscuring stem to 5m. Well proportioned crown with good branch unions. Ferns colonising upper crown. Good vigour and leaf cover.	Ivy management to facilitate future tree inspections	20 +	B	2	7.4	174
C05	T4504	1	1	720	Sycamore - Acer pseudoplatanus	16	8	8	8	8	4	SW	3	Mature	Good	Good	Well formed buttresses. Reiterative growth at base at site of pruning cuts. Partially occluded pruning wounds on stem to 4m. Codominant stems at 6m with included union and natural bracing. Good branch unions throughout well proportioned crown. Excellent vigour and leaf cover.	No work presently required	40 +	A	2	8.6	234



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C05	T4505	1	1	590	Horse chestnut - Aesculus hippocastanum	13	7	7	8	8	3	SW	0	Mature	Normal	Moderate	Occluded wounds on buttresses to West. Partially occluded pruning wounds on stem to Northeast. Occluded vertical cracking on lower stem and main branches to North. Codominant stems at 4m with good union. Good branch unions throughout. Squat spreading crown. Good vigour and leaf cover. Chestnut leaf miner present.	No work presently required	20 +	B	2	7.1	157
C05	T4506	1	1	570	Sycamore - Acer pseudoplatanus	16	4	5	4	4	4	N	2	Mature	Normal	Moderate	Well formed buttresses. Ivy obscuring stem to 7m. Good branch unions where visible Dense compact crown with good vigour and leaf cover.	Ivy management to facilitate future tree inspections	20 +	B	2	6.8	147
C05	T4507	1	1	330	Sycamore - Acer pseudoplatanus	14	4	5	6	4	3	SE	2	Early-mature	Normal	Moderate	Ivy obscuring stem to 5m. Good branch unions throughout crown. Good vigour and leaf cover.	Ivy management to facilitate future tree inspections	20 +	B	2	4	49
C05	T4508	1	1	850	Ash - Fraxinus excelsior	19	8	8	7	8	4	N	4	Mature	Fair	Moderate	Well formed buttresses. Large partially occluded pruning wound on stem Northeast at 2m. Tree is lapsed pollard with multiple stems at 5m. Tree overhangs neighbouring property. Good branch unions. Entire crown is sparsely leaved with evidence indicating Ash dieback disease.	Partially remove the tree leaving a snag (monolith) for wildlife habitat	10 +	C	2	10.2	327
C05	T4509	1	1	380	Horse chestnut - Aesculus hippocastanum	12	5	5	4	5	4	W	0.5	Early-mature	Normal	Moderate	Partially occluded wound at base of stem at South. Partially occluded pruning wound on stem at 3m to South. Good branch unions throughout crown. Minor deadwood present. Good vigour and leaf cover. Chestnut leaf miner present.	No work presently required	20 +	B	2	4.6	65
C05	T4510	1	3	647	Sycamore - Acer pseudoplatanus	14	5	4	4	4	3	E	1.5	Early-mature	Normal	Moderate	Growing from bank of stream. Ivy obscuring stems into upper crown. Branch unions good where visible. Good vigour and leaf cover.	Ivy management to facilitate future tree inspections	20 +	B	2	7.8	189
C05	T4511	1	2	554	Ash - Fraxinus excelsior	14	5	6	7	6	3	SE	2.5	Early-mature	Normal	Moderate	Growing from bank of stream. Northernmost stem curving upwards across stream. Southernmost stem ivy covered to 6m. Sparsely leaved with evidence of Ash dieback disease at tips. Branch unions good where visible.	No work presently required	20 +	B	2	6.6	139
C05	T4512	1	1	980	Horse chestnut - Aesculus hippocastanum	16	9	7	8	8	4	NE	0	Mature	Normal	Moderate	Well formed buttresses with compacted soil surrounding root plate. Lower branches sweeping towards ground and stream. Good branch unions throughout crown .Evidence of historic pruning on lower southern branches. Broad spreading crown with good vigour and leaf cover.	No work presently required	20 +	B	2	11.8	434
C05	T4513	1	1	870	Sycamore - Acer pseudoplatanus	15	6	6	7	6	2	E	2	Mature	Normal	Moderate	Partially occluded pruning wound on stem to Southwest. Codominant stems from 4m. Natural grafting and bracing from 6m. Good branch unions throughout crown. Good vigour and leaf cover.	No work presently required	20 +	B	2	10.4	342
C05	T4514	1	1	800	Sycamore - Acer pseudoplatanus	9	4	5	6	5	3	SW	2	Mature	Normal	Moderate	Growing from bank of stream. Codominant from 2m with obscured union. Ivy growing high into crown. Branch unions good where visible. Minor deadwood present. Good vigour and leaf cover.	Ivy management to facilitate future tree inspections	20 +	B	2	9.6	289
C05	T4515	1	1	870	Pedunculate oak - Quercus robur	17	10	6	5	6	3	S	1.5	Mature	Normal	Moderate	Branch unions good throughout crown. Minor deadwood in crown to South. Ferns colonising crown from 4m. Asymmetric to North with good vigour and leaf cover.	No work presently required	20 +	B	2	10.4	342
C05	PT4529	1	4	557	Sycamore - Acer pseudoplatanus	17	4	3	5	5	5	N	5	Early-mature	Normal	Moderate	Multi stem 0.5 m from ground level, large stump, moderate unions. Northern stem has a spiral growth pattern, weighted to the north. The other three stems are weighted over the water course. Visible branch unions generally appear good. Leaf area and vigour appear normal.	No work presently required	20 +	B	2	6.7	140
C05	PT4530	1	4	351	Ash - Fraxinus excelsior	16	4	3	4	3	2	N	1.5	Early-mature	Fair	Poor	Multi stem at ground level, unions are heavily obscured by ivy. Northern stems have strong sweep and poor form, heavily over extended. Codominance in the southern stems, unions are obscured by ivy. Leaf area and vigour are generally fair, light deadwood accumulating in the crown.	Reduce end weight on over extended limbs	10 +	C	2	4.2	56
C05	PT4531	1	4	278	Ash - Fraxinus excelsior	16	7	2	2	2	3	N	1	Early-mature	Fair	Poor	Multi stem at ground level, unions are not visible, stems are heavily obscured by ivy. All stems have a very strong sweep and lean to the north, poor stem form. Crown is weighted to the north, leaf area and vigour appear fair.	No work presently required	10 +	C	2	3.3	35

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C05	PT4532	1	1	360	Sycamore - Acer pseudoplatanus	18	3	3	4	2	2	E	3	Early-mature	Normal	Moderate	Stem has minor sweep and ivy coverage. Codominance around 6 m from ground level, union is not visible. Light branch framework, visible unions generally appear good. Leaf area and vigour appear normal.	No work presently required	20 +	B	2	4.3	59
C05	PT4533	1	4	427	Sycamore - Acer pseudoplatanus	17	4	3	6	2	2	N	2	Early-mature	Normal	Fair	Multi stem at ground level, unions are not visible, epicormic growth and ivy at the base of the stem. Crown is partially suppressed by neighbouring trees, over extension to the north and south, branch unions are not visible. Leaf area and vigour generally appears normal.	No work presently required	10 +	C	2	5.1	82
C05	PT4534	1	1	340	Sycamore - Acer pseudoplatanus	16	6	3	3	3	5	N	4	Early-mature	Normal	Moderate	Stem has a strong sweep, moderate ivy coverage, lower branch unions are not visible. Crown is partially suppressed by neighbouring trees, weighted to the north, light over extension on the branches. Leaf area and vigour generally appears normal.	No work presently required	20 +	B	2	4.1	52
C05	PT4535	1	3	412	Sycamore - Acer pseudoplatanus	16	6	4	4	2	4	N	0.5	Early-mature	Normal	Moderate	Multi stem at ground level, unions are not visible, stems are heavily obscured by ivy. Branch unions are obscured by ivy. Crown is partially suppressed by neighbouring trees, weighted to the north, over extension on the branches. Moderate chlorosis and white spots on the leaves, leaf area appears normal.	No work presently required	20 +	B	2	4.9	77
C05	PT4536	1	1	250	Ash - Fraxinus excelsior	14	4	2	3	2	4	N	1.5	Semi-mature	Fair	Fair	Stem and branch unions are heavily obscured by ivy. Crown is partially suppressed by neighbouring trees, over extension in the branches, poor crown form. Leaf area and vigour are fair.	No work presently required	10 +	C	2	3	28
C05	PT4537	1	2	192	Ash - Fraxinus excelsior	8	6	2	2	2	3	N	2	Semi-mature	Fair	Poor	Stems are heavily obscured by ivy. Crown is partially suppressed by neighbouring trees, weighted to the north, poor stem and crown form, over extension. Leaf area is fair, vigour appears normal.	Removal recommended	10 +	C	2	2.3	17
C05	PT4538	1	3	351	Sycamore - Acer pseudoplatanus	17	5	2	4	3	2	N	2.5	Early-mature	Normal	Fair	Multi stem at ground level, unions are not visible, ivy and epicormic growth. Branch unions are obscured by ivy, light over extension to the north. Crown is partially suppressed by neighbouring trees. Leaf area and vigour appear normal.	No work presently required	10 +	C	2	4.2	56
C05	PT4539	1	2	565	Sycamore - Acer pseudoplatanus	18	6	6	5	2	1	E	0.5	Early-mature	Normal	Moderate	Codominant stems 0.5 m from ground level, union has a bark inclusion. Further codominance higher in the crown, moderate unions. Visible branch unions generally appear good. Crown is partially suppressed by neighbouring trees, weighted to the north and east. Leaf area and vigour appear normal.	No work presently required	20 +	B	2	6.8	144
C05	PT4540	1	3	463	Sycamore - Acer pseudoplatanus	17	6	4	6	5	3	N	1	Early-mature	Normal	Moderate	Multi stem at ground level, unions are not visible, stems are heavily obscured by ivy. Crown breaks around 3 m from ground level, over extension on some of the branches, branch unions are not visible. Leaf area and vigour generally appear normal.	No work presently required	20 +	B	2	5.6	97
C05	PT4541	1	1	260	Hawthorn - Crataegus monogyna	8	3	1	3	4	3	W	2	Early-mature	Normal	Fair	Stem is heavily obscured by ivy, crown breaks around 3 m from ground level, branch unions are not visible. Crown is partially suppressed by neighbouring trees, weighted to the west. Leaf area and vigour appear normal.	No work presently required	10 +	C	2	3.1	31
C05	PT4542	1	5	701	Sycamore - Acer pseudoplatanus	18	6	6	6	6	2	N	1.5	Mature	Normal	Moderate	Multi stem at ground level, unions are not visible, stump is buried and obscured by ivy. Southern stems have strong sweep and are weighted over the water course. Branch unions are obscured by ivy. Crown has an even spread, light over extension in places. Leaf area and vigour appear good.	No work presently required	20 +	B	2	8.4	222
C05	PT4543	1	1	150	Brewers (Weeping) spruce - Picea breweriana	8	2	3	2	1.5	2	N	1	Semi-mature	Fair	Fair	Stem is heavily obscured by ivy, codominance 5 m from ground level, moderate union. Light branch framework, unions are not visible. Crown is heavily suppressed by a neighbouring tree, leaf area and vigour appear fair.	No work presently required	10 +	C	2	1.8	10

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C05	PT4544	1	1	130	Oriental spruce - Picea orientalis	3	1.5	1.5	2	1.5	1	S	1	Semi-mature	Fair	Fair	Lower stem is obscured by ivy, crown breaks around 1.5 m from ground level, branch unions appear good. Codominance 3 m from ground level, moderate union. Heavily topped in the past, poor crown form. Leaf area and vigour appear fair.	No work presently required	10 +	C	2	1.6	8
C05	PT4545	1	1	310	Cherry spp - Prunus spp	4	3	3	3	3	1	N	1.5	Early-mature	Normal	Fair	Stem is obscured by ivy, codominance 1.5 m from ground level, unions are not visible. Heavily topped in the past leaving large stubs and tears, sprouting from the stubs. Light branch framework, foliage area is moderate but the vigour appears normal.	No work presently required	10 +	C	2	3.7	43
C05	PT4546	1	1	450	Copper Beech - Fagus sylvatica 'Purpurea'	11	5.5	5.5	5.5	5.5	2	SE	2	Early-mature	Normal	Fair	Codominant stems 1.5 m from ground level, union has a large bark inclusion. Appears to have been topped in the past, regrowth from the pruning wounds has restored the crown. Branch unions are generally moderate. Crown has a good even spread, leaf area and vigour appear good.	No work presently required	20 +	B	2	5.4	92
C05	PT4547	1	1	300	Beech spp - Fagus spp	10	5	3	4	4	2	E	0.5	Early-mature	Normal	Moderate	Weeping beech. Stem is heavily obscured by ivy, codominance 2.5 m from ground level, union is not visible. Stems have a weeping form, foliage is almost touching the ground. Light over extension in some of the branches. Leaf area and vigour generally appear normal.	No work presently required	20 +	B	2	3.6	41
C05	PT4548	1	4	255	Japanese maple - Acer palmatum	4	3	3	2.5	3	1	N	1	Semi-mature	Normal	Moderate	Multi stem 0.5 m from ground level, moderate unions. Crown has been heavily topped in the past for a communications cable, sprouting from the stubs. Leaf vigour generally appears normal.	No work presently required	10 +	C	2	3.1	29
C05	PT4549	1	1	400	Weeping willow - Salix babylonica	4	3	3	3	3	2	E	1.5	Early-mature	Normal	Moderate	Stem has a slight spiral growth pattern, crown breaks around 2.5 m from ground level, moderate unions. Lighter branches have a weeping form, crown appears to have been topped regularly. Regrowth from the pruning wounds has restored an attractive crown. Leaf area and vigour appear normal.	No work presently required	40 +	A	2	4.8	72
C01	PT4550	2	3	377	Alder - Alnus glutinosa, Elder - Sambucus nigra	11	4	3	3	4	2	NW	2	Early-mature	Normal	Moderate	Two trees have effectively fused together, alder stems are growing through the elder. Codominance at ground level and 1 m from ground level, unions are obscured by ivy. Leaf area and vigour is fair to normal.	No work presently required	10 +	C	2	4.5	64
C01	PT4551	1	3	346	Hawthorn - Crataegus monogyna	6	4	2	3	4.5	2	N	1	Early-mature	Poor	Poor	Multi stem 0.5 m from ground level, unions are obscured by ivy. Crown is suppressed by neighbouring trees leading to poor stem form and over extension to the west. Branch unions are obscured by ivy. Leaf area and vigour are poor.	No work presently required	10 +	C	2	4.2	54
C01	PT4552	1	4	758	Ash - Fraxinus excelsior	18	5	3.5	5	7	5	W	0.5	Mature	Normal	Fair	Multi stem at ground level, unions have bark inclusions, hollowing and decay in the stump. Tear out wound on the stump from a previous stem failure. Western stems are weighted over the water course, eastern stems are weighted towards the ESB yard. Moderate ivy coverage, branch unions are not visible. Leaf area and vigour are fair to normal.	No work presently required	10 +	C	2	9.1	260
C01	PT4553	1	1	500	Ash - Fraxinus excelsior	16	3	5	3	7	2	W	1	Mature	Fair	Poor	Stem has a strong sweep and poor growth pattern, codominance 2.5 m from ground level, poor union. Moderate ivy coverage on the stem, branch unions are not visible. Medium sized deadwood accumulating in the crown. Leaf area and vigour are fair.	No work presently required	10 +	C	2	6	113
C01	PT4554	1	3	304	Ash - Fraxinus excelsior	15	3	2	4	6	1	W	2	Early-mature	Fair	Fair	Codominant stems 1 m from ground level, unions are obscured by ivy. All stems are weighted to the west over the water course, strong sweep and poor form. Leaf area and vigour appear fair.	No work presently required	10 +	C	2	3.6	42
C01	PT4555	1	1	600	Sycamore - Acer pseudoplatanus	15	3	6	9	10	0	S	0.5	Mature	Fair	Fair	Codominance at ground level, large lateral limb extending to the south, union is obscured by ivy. Heavy ivy coverage in the crown, branch unions are not visible. Southern and western stems are over extended. Leaf area and vigour are fair.	No work presently required	10 +	C	2	7.2	163



Water course Identifier	Feature ID	No of Trees	Stem Count	Stem Diameter (mm)	Tree Species	Height (m)	Crown Spread N (m)	Crown Spread E (m)	Crown Spread S (m)	Crown Spread W (m)	FSB ht (m)	FSB Dir	Canopy clearance ht (m)	Life stage	Vitality Class	Structural Condition	Observations	Preliminary management recommendations	Remaining contribution in yrs	Retention Category	Retention Sub category	RPR-Root Protection Radius (m)	RPA-Root Protection Area (m²)
C01	PT4556	1	5	572	Sycamore - Acer pseudoplatanus	18	7	5	8	7	0	S	0	Early-mature	Normal	Fair	Multi stem at ground level, unions are not visible, stems are obscured by ivy. Codominance in the crown, moderate to good unions. Stems have natural leans in the four cardinal directions, over extension in some. Leaf area and vigour generally appears normal.	No work presently required	20 +	B	2	6.9	148
C01	PT4557	1	3	644	Sycamore - Acer pseudoplatanus	18	4	5	7	4	2	S	1	Early-mature	Fair	Fair	Multi stem at ground level, unions are not visible, stems are heavily obscured by ivy. Codominance in the crown, unions are not visible. Leaf area and vigour in the southern part of the crown is poor, remaining crown vigour appears normal.	No work presently required	10 +	C	2	7.7	188
C01	PH4558			500	Leyland cypress - Cupressocyparis leylandii	8					0		0	Early-mature	Normal	Moderate	Boundary hedge of the ESB yard. Trees were established at an approximately 2 m spacing. The width of the hedge is approximately 8 m. Regularly maintained by topping and side pruning, good foliage area and vigour.	No work presently required	20 +	B	2	6	113
C06	PH4596	27		150	Hawthorn - Crataegus monogyna, English elm - Ulmus procera, Grey willow - Salix cinerea	8					0		0	Semi-mature	Fair	Fair	Boundary hedge, mostly dead elms. The vitality of the hawthorn and willows are normal. Light sprouting from the elms in places.	Remove deadwood	10 +	C	2	1.8	10
C06	PH4597	50		200	Ash - Fraxinus excelsior, Elder - Sambucus nigra, Hawthorn - Crataegus monogyna, English elm - Ulmus procera, Grey willow - Salix cinerea	12					0		0	Early-mature	Normal	Moderate	Dense boundary hedge of mainly hawthorn and elder, number of dead elms. Crowns of the hawthorn and elder have a good spread, the leaf area and vigour appears normal to good, most trees are producing good fruit. Dense bramble in the understorey. Hedge has good nesting potential.	Remove deadwood	20 +	B	2	2.4	18
C06	PT4598	1	3	572	Ash - Fraxinus excelsior	22	8	8	8	8	7	E	3.5	Mature	Normal	Moderate	Codominant stems 0.5 m from ground level, unions are not visible, stems are heavily obscured by ivy. Crown breaks around 5 m from ground level, lower limb unions are not visible, higher branch unions generally appear good. Southern stem has a natural lean to the south and is weighted over the road. Light deadwood in the inner crown. Leaf area and vigour appear good.	Ivy management to facilitate future tree inspections,Reduce end weight on over extended limbs	20 +	B	2	6.9	148
C06	PT4599	1	1	350	Ash - Fraxinus excelsior	10	6	7	6	6	3	NE	1.5	Early-mature	Fair	Fair	Lower stem is heavily obscured by ivy and bramble. Crown breaks around 3 m from ground level, branch unions are not visible. Light deadwood in the inner crown, light dieback around the crown periphery. Remaining leaf vigour is fair to normal.	No work presently required	10 +	C	2	4.2	55
C06	PH4600	5		150	Ash - Fraxinus excelsior, Sycamore - Acer pseudoplatanus, Hawthorn - Crataegus monogyna	6					0		0	Semi-mature	Fair	Moderate	Hedge is regularly topped and side pruned, three semi mature sycamores are free growing. Hedge is mostly bramble and small thorn. The vitality of the sycamores is good.	No work presently required	10 +	C	2	1.8	10
C06	PH4601	50		300	Ash - Fraxinus excelsior, Hawthorn - Crataegus monogyna, English elm - Ulmus procera	12					0		0	Semi-mature	Fair	Fair	Boundary hedge of mostly dead elms. The western portion of the hedge has been removed, the remaining eastern section has many dead elms overhanging the road side. Light understorey of thorn and some elm sprouting.	Remove deadwood	10 +	C	2	3.6	41
C06	PT4602	1	1	450	Western Balsam - poplar - Populus trichocarpa	25	4.5	4.5	4	4	9	S	10	Early-mature	Normal	Moderate	Lower stem is obscured by ivy, crown breaks around 9 m from ground level, moderate branch unions, higher branch unions generally appear good. Light deadwood accumulating in the inner crown and on the main stem. Signs of light dieback around the crown periphery. Remaining leaf area and vigour generally appears normal.	Ivy management to facilitate future tree inspections	20 +	B	2	5.4	92
C06	PT4603	1	1	300	Ash - Fraxinus excelsior	12	2	4	4	3	3	S	5	Semi-mature	Normal	Fair	Stem is obscured by ivy, crown breaks around 3 m from ground level, branch unions are not visible. Codominance higher in the crown, moderate unions. Crown is partially suppressed by neighbouring tree, extending to the east and south, over extension in some of the limbs. Light deadwood in the inner crown. Leaf area and vigour generally appears normal.	Ivy management to facilitate future tree inspections	10 +	C	2	3.6	41

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C06	PT4604	1	1	350	Western Balsam - poplar - Populus trichocarpa	15	3	3.5	3	3	4	S	4	Early-mature	Normal	Moderate	Stem is heavily obscured by ivy, crown breaks around 4 m from ground level, limb union is not visible. Light branch framework, unions generally appear good. Leaf area and vigour appear normal.	Ivy management to facilitate future tree inspections	20 +	B	2	4.2	55
C06	PT4605	1	1	530	Western Balsam - poplar - Populus trichocarpa	30	4.5	5	7	5	6	S	6	Mature	Normal	Moderate	Lower stem is heavily obscured by ivy, crown breaks around 6 m from ground level, branch unions are not visible. Codominance higher in the crown, union is not visible. Light deadwood in the inner crown, some signs of light dieback around the crown periphery. Branch framework is generally light, visible unions generally appear good. Leaf area and vigour generally appears normal.	Ivy management to facilitate future tree inspections	20 +	B	2	6.4	127
C06	PT4606	1	2	438	Ash - Fraxinus excelsior	16	3	7	7	5	1	S	1	Early-mature	Normal	Fair	Codominant stems at ground level, union appears to have a bark inclusion, obscured by ivy. Both stems have a strong sweep and are weighted to the south. Most limbs and branches are extending to the south away from the road. Light deadwood in the inner crown. Leaf area and vigour appear normal.	Ivy management to facilitate future tree inspections,Remove deadwood	10 +	C	2	5.3	87
C06	PT4608	1	3	295	Elder - Sambucus nigra	5	3	2	3	3	0	N	0.5	Early-mature	Normal	Moderate	Multi stem at ground level, unions are not visible, ivy on the stems. Light branch framework, unions generally appear good. Light deadwood in the inner crown. Leaf area and vigour appear normal.	No work presently required	20 +	B	2	3.5	39
C06	PH4609	20		150	Ash - Fraxinus excelsior, Hawthorn - Crataegus monogyna, English elm - Ulmus procera	10					0			Semi-mature	Normal	Moderate	Boundary hedge of mostly hawthorn, a few dead elms and one or two light Ash. The vitality of the hawthorn is normal, the trees have a good crown spread and the leaf area appears normal. The elms are standing dead.	Remove deadwood	20 +	B	2	1.8	10
C06	PT4610	1	2	562	Ash - Fraxinus excelsior	18	8	9	8	7	1	NE	1.5	Early-mature	Normal	Moderate	Codominant stems at ground level, union is obscured by ivy. Main crown break is around 4 m from ground level, limb unions are not visible, visible branch unions higher in the crown generally appear good. Over extension in the limbs to the east. Good crown spread, leaf area and vigour generally appear normal.	No work presently required	20 +	B	2	6.7	143
C06	PT4611	1	2	424	Ash - Fraxinus excelsior	12	2	6	6	6	2	S	2	Early-mature	Normal	Fair	Codominant stems at ground level, moderate union. Crown is heavily suppressed by neighbouring trees, extending to the south. Stems have a heavy lean and are over extended. Leaf area and vigour appears normal for the crown size.	No work presently required	10 +	C	2	5.1	81
C06	PH4612	16	16	250	Leyland cypress - Cupressocyparis leylandii	7					1			Semi-mature	Normal	Fair	Line of cypress trees regularly topped. Most stems have codominance and many are multi stemmed. Branches are beginning to over extend to the west. Leaf area and vigour generally appears normal.	No work presently required	10 +	C	2	3	28
C06	PT4613	1	1	470	Western Balsam - poplar - Populus trichocarpa	20	3	5	4	4	5	W	4.5	Mature	Normal	Moderate	Large wound at the base of the stem, partially occluded. Crown breaks around 5 m from ground level, branch unions generally appear good. Codominance higher in the crown, moderate union. Leaf area and vigour appear normal.	No work presently required	20 +	B	2	5.6	100
C06	PH4614	40	40	150	Leyland cypress - Cupressocyparis leylandii	4					0			Semi-mature	Fair	Fair	Hedge line is routinely topped and side pruned, foliage cover along the western and northern sides are poor.	No work presently required	10 +	C	2	1.8	10
C06	PT4615	1	1	500	Western Balsam - poplar - Populus trichocarpa	25	5	4	3	5	4	NW	3	Mature	Normal	Moderate	Straight stem, crown breaks around 4 m from ground level, limb unions generally appear good. Codominance high in the crown, union is not visible. Branches to the north are beginning to over extend. Leaf area and vigour generally appears normal.	No work presently required	20 +	B	2	6	113
C06	PT4616	1	1	350	Western Balsam - poplar - Populus trichocarpa	20	4	3	4	3	7	N	7	Early-mature	Normal	Moderate	Stem is heavily obscured by ivy, crown breaks around 7 m from ground level, branch unions are not visible. Leaf area and vigour generally appears normal.	Ivy management to facilitate future tree inspections	20 +	B	2	4.2	55
C08	PH4617			150	Grey willow - Salix cinerea, Alder - Alnus glutinosa, Other -	6					0			Semi-mature	Fair	Fair	Dense line of semi mature trees, almost all stems are heavily obscured by ivy, bramble, climbers and other vegetation. The vitality of the alders is generally low, the willows appear normal. The general structure of the trees is fair with heavy crown competition and poor crown form.	No work presently required	10 +	C	2	1.8	10

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C08	PH4618	10		150	Alder - Alnus glutinosa, Hawthorn - Crataegus monogyna, Alder - Alnus glutinosa, Hawthorn - Crataegus monogyna, Elder - Sambucus nigra	8					0		0	Semi-mature	Normal	Moderate	Line of multi stem trees, stems and unions are heavily obscured by ivy and bramble. Branch unions are generally not visible. Heavy crown competition leading to poor crown form and over extended branches. Leaf area and vigour generally appears normal.	No work presently required	10 +	C	2	1.8	10
C08	PT4619	1	1	200	Scots pine - Pinus sylvestris	9	4	3	3.5	4.5	2	W	2	Semi-mature	Normal	Moderate	Stem is heavily obscured by ivy and bramble. Crown raised in the past leaving stubs. Crown breaks around 2 m from ground level, visible branch unions generally appear good. Foliage area and vigour appear good.	Ivy management to facilitate future tree inspections	20 +	B	2	2.4	18
C08	PT4620	1	1	200	Alder - Alnus glutinosa	9	3	2	3	3	2	N	2	Semi-mature	Normal	Moderate	Lower stem is heavily obscured by ivy and bramble. Crown breaks around 2.5 m from ground level, branch unions generally appear good. Slight spiral growth pattern in the stem, minor codominance. Leaf area and vigour are generally normal.	Ivy management to facilitate future tree inspections	20 +	B	2	2.4	18
C08	PTG4621	10	12	150	Ash - Fraxinus excelsior, Scots pine - Pinus sylvestris, Pedunculate oak - Quercus robur, Grey willow - Salix cinerea, Chilean myrtle - Luma apiculata	9					0		0	Semi-mature	Normal	Moderate	Dense copse of semi mature trees. Almost all stems are heavily obscured by dense bramble. Heavy crown competition, some of the weaker trees are heavily suppressed. The vitality of the Ash, oak and Scots pine appears normal. Two of the Ash trees have escaped the crown competition and their crowns are developing evenly. Leaf area and vigour is generally normal.	No work presently required	10 +	C	2	1.8	10
C08	PH4622	25		200	Ash - Fraxinus excelsior, Pedunculate oak - Quercus robur, Hawthorn - Crataegus monogyna, English elm - Ulmus procera	12					0		0	Semi-mature	Normal	Fair	Boundary hedge, 50% dead elms. Leaf area and vigour on the hawthorn appears normal, the two Ash trees and the oak have good vitality. Most of the trees are multi stemmed, the stems and unions are heavily obscured by ivy and bramble.	Remove deadwood	10 +	C	2	2.4	18
C08	PH4623			75	Ash - Fraxinus excelsior, Hazel - Corylus avellana, Hawthorn - Crataegus monogyna	6					0		0	Semi-mature	Normal	Moderate	Dense hedge which is regularly maintained, topped and side pruned. Dense bramble in the hedge obscuring the stems. Leaf area and vigour are good. Good nesting potential.	No work presently required	10 +	C	2	0.9	3
C05	PT4624	1	1	1000	Black poplar - Populus nigra	30	8	10	12	8	4	W	4	Mature	Normal	Moderate	Stem is heavily obscured by ivy, branch unions are not visible. Crown breaks around 4 m from ground level, large branch framework, light deadwood in the inner crown. Large crown spread, over extension in some of the limbs. Leaf area and vigour appear normal.	Ivy management to facilitate future tree inspections	20 +	B	2	12	452
C05	PW4625	215		400	Alder - Alnus glutinosa, Sycamore - Acer pseudoplatanus, Norway maple - Acer platanoides, Sitka spruce - Picea sitchensis	25					0		0	Early-mature	Normal	Moderate	Small woodland of mostly sycamore. Most stems are heavily obscured by ivy, a number of stems have codominance and unions with bark inclusions. The understorey is almost absent, a few small scattered hawthorn and small beech, the forest floor has heavy ivy coverage. Number of partially failed trees and hanging deadwood. The leaf area and vigour in most trees appears good.	No work presently required	20 +	B	2	4.8	72
C05	PT4626	1	1	440	Ash - Fraxinus excelsior	12	3	4	5	3	5	S	3	Early-mature	Fair	Moderate	Stem has a natural lean over the water course, heavily obscured by ivy. Crown breaks around 4 m from ground level, branch unions are not visible. Light dieback around the crown periphery, light deadwood in the inner crown. Leaf area and vigour are fair to normal.	No work presently required	10 +	C	2	5.3	88
C05	PT4627	1	1	350	Alder - Alnus glutinosa	10	3.5	1.5	2.5	3.5	4	NW	2.5	Early-mature	Fair	Moderate	Stem has a natural sweep, heavily obscured by ivy. Crown breaks around 4 m from ground level, lower branch unions are not visible, higher branch unions generally appear good. Light dieback around the crown periphery, remaining leaf area and vigour appear good.	No work presently required	20 +	B	2	4.2	55
C05	PT4628	1	1	300	Alder - Alnus glutinosa	12	4.5	4.5	4	2.5	4	E	2	Early-mature	Normal	Moderate	Minor natural lean in the stem to the east. Codominance around 8 m from ground level, moderate union, branch unions generally appear good. Light dieback around the crown periphery, remaining leaf area and vigour appear normal.	No work presently required	20 +	B	2	3.6	41



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C05	PT4629	1	4	432	Laurel spp	5	4.5	4.5	3.5	4.5	0	S	0	Early-mature	Normal	Moderate	Multi stem 0.5 m from ground level, unions are not visible. Light branch framework, unions generally appear good. Leaf area and vigour generally appears normal.	No work presently required	10 +	C	2	5.2	84
C05	PT4630	1	2	320	Leyland cypress - Cupressocyparis leylandii	9	3	3	3	3	0	W	0.5	Early-mature	Normal	Moderate	Codominant stems 0.5 m from ground level, unions are not visible, stems are obscured by ivy. Dense branching in the inner crown, branch unions are not visible. Over extension in some of the branches, leading to poor crown form. Foliage area and vigour appears normal.	No work presently required	10 +	C	2	3.8	46
C05	PT4631	1	3	364	Leyland cypress - Cupressocyparis leylandii	9	3	3	3	3	0	S	0	Early-mature	Normal	Fair	Multi stem 0.5 m from ground level, conjoined unions with bark inclusions. Dense branching in the inner crown, number of partially failed over extended branches leaving large gaps in the crown. Crown and stem structure is generally fair. Foliage area and vigour appear normal.	Crown raise to improve headroom	10 +	C	2	4.4	60
C05	PT4632	1	4	348	Leyland cypress - Cupressocyparis leylandii	8	3	3	3	3	0	S	0	Early-mature	Normal	Moderate	Multi stem 0.5 m from ground level, unions are heavily obscured by ivy. Dense branching in the inner crown, light over extension. Foliage area and vigour appear normal.	No work presently required	20 +	B	2	4.2	55
C05	PT4633	1	1	230	Leyland cypress - Cupressocyparis leylandii	8	1.5	1.5	1	1.5	2	N	1.5	Early-mature	Fair	Fair	Stump and stems are heavily obscured by ivy, stem unions are not visible. Southern portion of the tree is missing, a number of stems appear to have failed in the past. Light branch framework in the remaining crown. Foliage vigour appears normal but the area is low.	No work presently required	10 +	C	2	2.8	24
C05	PT4634	1	3	617	Alder - Alnus glutinosa	12	3.5	4	4	3.5	0	N	0.5	Early-mature	Poor	Fair	Multi stem at ground level, unions are not visible, stems are heavily obscured by ivy. Two of the stems appear to have historic storm damage and have been reduced in height. The other two stems are weighted towards the water course, heavy dieback in the crowns. Leaf area and vigour are poor.	Partially remove the tree leaving a snag (monolith) for wildlife habitat	10 +	C	3	7.4	172
C05	PT4635	1	1	460	Sycamore - Acer pseudoplatanus	17	6.5	3	5	5	2	S	2.5	Early-mature	Normal	Moderate	Lower stem has a slight natural lean, codominance 2.5 m from ground level, moderate unions. Visible branch unions generally appear good. Leaf area and vigour appear normal.	No work presently required	20 +	B	2	5.5	96
C05	PT4636	1	1	480	Ash - Fraxinus excelsior	16	4.5	4	4	5.5	2	W	0.5	Early-mature	Fair	Moderate	Stem has a natural lean over the water course, heavily obscured by ivy. Crown breaks around 2.5 m from ground level, branch unions are not visible, codominance higher in the crown, union is obscured by ivy. Light deadwood in the inner crown, dieback around the crown periphery. Leaf area is fair but the vigour appears normal.	No work presently required	10 +	C	2	5.8	104
C05	PT4637	1	1	290	Alder - Alnus glutinosa	12	3	3	3	4	0	SW	0	Early-mature	Fair	Moderate	Stem has a natural lean to the west, heavily obscured by ivy, branch unions are not visible. Light deadwood in the inner crown, dieback around the crown periphery, remaining leaf vigour appears normal.	No work presently required	10 +	C	2	3.5	38
C01	PT4641	1	1	300	Sycamore - Acer pseudoplatanus	14	3.5	3.5	3	2	2	W	1	Semi-mature	Normal	Moderate	Stem and branch unions are heavily obscured by ivy. Crown is partially suppressed by neighbouring tree, extending over the water course. Leaf area and vigour appear normal.	Ivy management to facilitate future tree inspections	20 +	B	2	3.6	41
C01	PT4642	1	2	291	Ash - Fraxinus excelsior	15	2.5	2.5	2.5	2.5	9	N	7	Semi-mature	Fair	Fair	Codominant stems at ground level, union is not visible. Stem has sweep and a natural lean over the water course. Dieback is progressing around the crown periphery, numerous dead branches. Sprouting in the inner crown, indicating retrenchment. Leaf area is fair but the vigour appears normal.	No work presently required	10 +	C	2	3.5	38
C01	PT4643	1	2	347	Ash - Fraxinus excelsior	16	5	2	4	4	6	NW	8	Early-mature	Poor	Poor	Codominant stems at ground level, union is not visible. Crown breaks around 6 m from ground level, unions are not visible. Severe dieback in the crown, only 10% live crown remaining.	Removal recommended	< 10	U	2	4.2	54

Water course Identifier	Feature ID	No of Trees	Stem Count	Stem Diameter (mm)	Tree Species	Height (m)	Crown Spread N (m)	Crown Spread E (m)	Crown Spread S (m)	Crown Spread W (m)	FSB ht (m)	FSB Dir	Canopy clearance ht (m)	Life stage	Vitality Class	Structural Condition	Observations	Preliminary management recommendations	Remaining contribution in yrs	Retention Category	Retention Sub category	RPR-Root Protection Radius (m)	RPA-Root Protection Area (m²)
C01	PT4644	1	1	450	Alder - Alnus glutinosa	14	4	2	4	3	4	NE	3.5	Mature	Fair	Fair	Trunk and stems are heavily obscured by ivy. Crown breaks around 4 m from ground level, branch unions are not visible. Major dieback in the upper crown, most of the main stems are dead. Approximately 10% live crown remaining on one of the stems.	Shorten deadwood	10 +	C	3	5.4	92
C01	PH4645			400	Ash - Fraxinus excelsior, Lawson cypress - Chamaecyparis lawsoniana, Hawthorn - Crataegus monogyna, Elder - Sambucus nigra, Poplar spp - Populus spp, Sycamore - Acer pseudoplatanus	4					0		0	Early-mature	Normal	Moderate	Roadside boundary hedge of early mature trees. Recently topped heavily to 4 m from ground level.	No work presently required	10 +	C	2	4.8	72
C01	PT4646	1	1	140	Alder - Alnus glutinosa	5	2.5	2.5	2.5	2.5	2	E	2	Semi-mature	Good	Moderate	Stem has a lean to the east, crown conflict with the overhead communications cable. Topped in the past, regrowth from the pruning wounds has restored the crown. Leaf area and vigour appear normal.	No work presently required	10 +	C	2	1.7	9
C01	PTG4647	10	20	150	Alder - Alnus glutinosa	7					0		0	Semi-mature	Normal	Moderate	Alder group providing natural screening to the neighbouring property. Leaf area and vigour appear normal.	No work presently required	20 +	B	2	1.8	10
C01	PT4648	1	1	350	Lawson cypress - Chamaecyparis lawsoniana	9	3	2.5	2.5	2.5	2	E	2.5	Early-mature	Normal	Moderate	Stem and branch unions are heavily obscured by ivy. Crown breaks around 2.5 m from ground level, light deadwood in the inner crown. Foliage area and vigour appear normal.	No work presently required	20 +	B	2	4.2	55
C01	PT4649	1	1	320	Sycamore - Acer pseudoplatanus	11	4	4	4	4	5	SE	3.5	Early-mature	Good	Moderate	Stem has sweep and is obscured by ivy. Crown breaks around 5 m from ground level, branch unions are not visible. Crown has a good spread, leaf area and vigour appear good.	Ivy management to facilitate future tree inspections	20 +	B	2	3.8	46
C01	PH4650	10	15	150	Lawson cypress - Chamaecyparis lawsoniana, Sycamore - Acer pseudoplatanus, Ash - Fraxinus excelsior, English elm - Ulmus procera	6					0		0	Semi-mature	Normal	Moderate	Roadside boundary hedge, some of the elms are dead. Lower section of the hedge is routinely maintained.	No work presently required	10 +	C	2	1.8	10
C01	PT4651	1	1	530	Western red cedar - Thuja plicata	16	4	4	4	4	5	S	4	Early-mature	Normal	Moderate	Stem and branch unions are heavily obscured by ivy. Crown breaks around 3.5 m from ground level, light deadwood in the inner crown. Foliage area and vigour appear normal.	No work presently required	20 +	B	2	6.4	127
C01	PT4652	1	1	530	Western red cedar - Thuja plicata	16	4.5	4	3.5	4	4	NE	2.5	Early-mature	Normal	Moderate	Stem and branch unions are heavily obscured by ivy. Crown breaks around 4 m from ground level, light deadwood in the inner crown. Foliage area and vigour appear normal.	No work presently required	20 +	B	2	6.4	127
C01	PH4653			50	Kapuka - Griselinia	2							0	Semi-mature	Normal	Moderate	Well maintained boundary hedge between the dwelling houses and the water course.	No work presently required	10 +	C	2	0.6	1
C08	PT4654	1	1	260	Scots pine - Pinus sylvestris	10	2	3.5	3	2	4	SW	4	Semi-mature	Normal	Moderate	Lower stem is heavily obscured by bramble. Crown breaks around 4 m from ground level, branch unions generally appear good. Light fractured branch hanging in the crown. Foliage area and vigour appear normal.	Clean crown of deadwood and defective branches	20 +	B	2	3.1	31
C08	PT4655	1	1	300	Scots pine - Pinus sylvestris	12	2.5	3	2	2	3	S	3.5	Semi-mature	Normal	Fair	Codominant stems 1.5 m from ground level, union has a large bark inclusion. Crown breaks around 3.5 m from ground level, visible branch unions generally appear good. Light deadwood accumulating in the inner crown. Foliage area and vigour are fair to normal.	No work presently required	10 +	C	2	3.6	41
C05	T4656	1	1	720	Sycamore - Acer pseudoplatanus	21	9	4	3	5	4	SW	2	Mature	Normal	Moderate	Well formed buttresses obscured by Ivy. Good branch unions. Crown asymmetric to Northeast. Major deadwood overhanging footpath. Good vigour and leaf cover.	Shorten deadwood	20 +	B	2	8.6	234
C05	T4657	1	1	290	Sycamore - Acer pseudoplatanus	8	0	1	6	1	4	S	1	Early-mature	Normal	Fair	Tree growing from bank and leaning across stream. Ivy obscuring codominant union. Good leaf cover.	No work presently required	10 +	C	2	3.5	38

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C02	T4658	1	1	230	Pedunculate oak - Quercus robur	8	4	4	4	2	2	S	2.5	Semi-mature	Normal	Moderate	Good flare at base of stem. Partially occluded tearout on South at 2m. Minor deadwood present throughout crown. Good branch unions. Good vigour and leaf cover.	No work presently required	20 +	B	2	2.8	24



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C03	PT4091	1	2	670	Ash - Fraxinus excelsior	22	Mature	Normal	Moderate	Codominant stems at ground level, union is obscured by ivy. Crown breaks around 2.5 m from ground level, heavy lower limbs, unions are obscured by ivy. Branch unions are obscured by ivy. Light deadwood hanging in the crown. Leaf area and vigour appear normal.	B	2	8	203
C03	PT4092	1	1	700	Ash - Fraxinus excelsior	20	Mature	Fair	Fair	Codominant stems 1.5 m from ground level, union has a bark inclusion and is partially open. Stem and branch unions are heavily obscured by ivy. Medium sized deadwood in the crown. Dieback around the crown periphery, leaf area and vigour are fair.	C	2	8.4	222
C03	PT4093	1	2	420	Ash - Fraxinus excelsior	18	Early-mature	Fair	Fair	Codominant stems at ground level, union is not visible. Stem and branch unions are obscured by ivy. Medium sized deadwood in the crown. Leaf area is fair but the vigour generally appears normal.	C	2	5	80
C03	PT4094	1	3	590	Ash - Fraxinus excelsior	25	Mature	Good	Moderate	Codominant stems at ground level, unions are not visible. Stems and branch unions are heavily obscured by ivy. Medium sized deadwood accumulating in the crown. Two of the stems are over extended over the water course. Leaf area and vigour appear good.	B	2	7.1	157
C03	PT4095	1	1	360	Ash - Fraxinus excelsior	25	Early-mature	Normal	Moderate	Natural sweep in the stem and heavy ivy. Crown breaks around 12 m from ground level, branch unions are not visible. Crown is suppressed by neighbouring trees, medium sized deadwood. Leaf area and vigour appear normal for the crown size.	C	2	4.3	59
C03	PT4096	1	1	750	Ash - Fraxinus excelsior	25	Mature	Good	Moderate	Large lower trunk breaks into two major stems 2 m from ground level, union is not visible. Stems are obscured by ivy. Limbs on the western stem are extending over the water course. Crown conflict with the overhead electricity network, routinely pruned. Leaf area and vigour appear good.	B	2	9	254
C03	PT4097	1	2	381	Alder - Alnus glutinosa	12	Early-mature	Good	Moderate	Codominant stems at ground level, union is not visible. Crown breaks around 2.5 m from ground level, branch unions generally appear good. Leaf area and vigour appear good.	B	2	4.6	66
C03	PH4098			120	Hawthorn - Crataegus monogyna, English elm - Ulmus procera	6	Semi-mature	Normal	Moderate	Roadside hedge, bramble, thorn, elm. Many dead stems.	C	2	1.4	7
C03	PT4099	1	1	370	Ash - Fraxinus excelsior	20	Early-mature	Normal	Moderate	Lower stem is heavily obscured by ivy. Crown breaks around 4 m from ground level, limb unions are not visible. Branch unions higher in the crown generally appear good. Leaf area and vigour appear normal.	B	2	4.4	62

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C03	PT4100	1	1	290	Ash - Fraxinus excelsior	12	Early-mature	Normal	Moderate	Stem has a natural sweep, leaning away from the road. Crown breaks around 4 m from ground level, limb unions are not visible. Lighter branch unions higher in the crown generally appear good. Leaf area and vigour appear normal.	C	2	3.5	38
C03	PTG4101	8	12	300	Ash - Fraxinus excelsior, Ash - Fraxinus excelsior, Alder - Alnus glutinosa, Sitka spruce - Picea sitchensis	18	Early-mature	Normal	Moderate	Road side ash with the tag has codominant stems at ground level, unions are not visible. Lower stems are heavily obscured by ivy. Minor deadwood and a fractured branch hanging in the crown over the road. Some of the higher branches are beginning to over extend over the road. The stems of the alders and spruce are heavily obscured by ivy. Leaf area and vigour generally appears normal. Management recommendations, remove deadwood and fractured branch in the crown of the road side ash.	C	2	3.6	41
C03	PTG4102	5	5	300	Ash - Fraxinus excelsior, Alder - Alnus glutinosa	17	Early-mature	Normal	Moderate	Four alders and one Ash, light dead elm stems. Moderate ivy coverage on the stems. One of the alders has codominance at ground level, union is not visible. Minor dieback around the crown periphery on the Ash. Leaf area and vigour on the alders is good.	C	2	3.6	41
C03	PW4103	42	42	450	Sitka spruce - Picea sitchensis	22	Early-mature	Normal	Good	Spruce wood, most stems are obscured by ivy. Light deadwood accumulating in the lower crowns. Dead stems and snags in the understorey. A few standing dead trees, the foliage area and vigour appears normal on the other trees.	B	2	5.4	92
C03	PT4104	1	2	456	Alder - Alnus glutinosa	14	Mature	Good	Moderate	Codominant stems at ground level, union is not visible. River bank at the base of the stems is partially eroded exposing the root system. The western stem is heavily obscured by ivy, branch unions are not visible. Eastern stem is weighted over the water course. Leaf area and vigour appear good.	B	2	5.5	94
C03	PT4105	1	1	290	Alder - Alnus glutinosa	16	Early-mature	Normal	Moderate	Established on a small sand bank in the water course. Stem has a natural sweep. Asymmetric crown, all branches extending to the north. Leaf area and vigour appear normal.	B	2	3.5	38
C03	T4106	1	1	470	Alder - Alnus glutinosa	12	Mature	Normal	Moderate	Crown breaks around 1 m from ground level, moderate ivy coverage on the stem and branches. Crown is partially suppressed by neighbouring trees, main limbs are extending to the north. Leaf area and vigour appear normal, very minor dieback.	B	2	5.6	100

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C03	PT4107	1	4	613	Alder - Alnus glutinosa	15	Mature	Normal	Moderate	Codominant stems at ground level, unions are not visible. Moderate ivy coverage on the stems, visible branch unions higher in the crown generally appear good. Leaf area and vigour appear normal.	B	2	7.4	170
C03	PT4108	1	1	370	Alder - Alnus glutinosa	15	Early-mature	Normal	Moderate	Stem and lower branch unions are obscured by ivy. Visible branch unions higher in the crown generally appear good. Crown is partially suppressed by neighbouring trees extending to the north. Leaf area and vigour appear normal.	B	2	4.4	62
C03	PT4109	1	2	553	Alder - Alnus glutinosa	14	Mature	Normal	Moderate	Codominant stems 1 m from ground level, union is not visible. Moderate ivy coverage on the stems, visible branch unions generally appear good. Leaf area and vigour appear normal, very minor dieback.	B	2	6.6	138
C03	PT4110	1	5	631	Alder - Alnus glutinosa	14	Mature	Normal	Moderate	Multi stem at ground level, unions are not visible. Moderate ivy coverage on the stems and in the crown, branch unions are not visible. Two of the stems are weighted over the water course, the other three are weighted to the north. Leaf area and vigour generally appears normal, dieback in the crown of one of the stems.	B	2	7.6	180
C03	PT4111	1	2	615	Alder - Alnus glutinosa	16	Mature	Normal	Moderate	Codominant stems at ground level, further codominance 1.5 m from ground level, unions are heavily obscured by ivy and bramble. Moderate ivy coverage higher on the stems. Visible branch unions generally appear good. Leaf area and vigour appear normal.	B	2	7.4	171
C03	PT4112	1	2	422	Alder - Alnus glutinosa	15	Mature	Normal	Moderate	Codominant stems at ground level, union is not visible. Southern stem has a heavy lean over the water course, northern stem has a natural sweep and is obscured by ivy. Visible branch unions higher in the crown generally appear good. Leaf area and vigour appear normal.	B	2	5.1	81
C03	PTG4116	16	16	450	Sitka spruce - Picea sitchensis	16	Early-mature	Fair	Moderate	Small stand of spruce trees, most stems are heavily obscured by ivy. Light deadwood in the lower crowns Foliage area and vigour is generally fair, a number of standing dead trees. Understorey of elder.	C	2	5.4	92
C03	T4118*	1	1	750	Ash - Fraxinus excelsior	20	Mature	Normal	Moderate	Stem and limbs are heavily obscured by ivy. Crown breaks around 4 m from ground level, branch unions are not visible. Crown has an even spread, minor dieback in the crown periphery. Leaf area and vigour are fair to normal.	B	2	9	254

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C03	PT4119	1	2	438	Ash - Fraxinus excelsior	16	Early-mature	Normal	Moderate	Codominant stems at ground level, union is not visible, both stems are obscured by ivy. Crown breaks around 2.5 m from ground level, branch unions are not visible. Leaf area and vigour appear normal.	B	2	5.3	87
C03	PT4120	1	1	220	Horse chestnut - Aesculus hippocastanum	12	Semi-mature	Fair	Moderate	Minor sweep in the stem, very minor codominance. Branch unions generally appear good. Leaf area is normal but the vigour is fair, leaf blotch (guignardia aesculi).	C	2	2.6	22
C03	PT4121	1	2	582	Ash - Fraxinus excelsior	18	Early-mature	Normal	Moderate	Codominant stems at ground level, union is not visible, stems are obscured by ivy. Crown breaks around 3.5 m from ground level, branch unions are not visible. Crown spread is good to the east, south and west. Leaf area and vigour appear normal.	B	2	7	153
C03	PT4122	1	1	360	Ash - Fraxinus excelsior	18	Early-mature	Fair	Moderate	Stem and branch unions are heavily obscured by ivy. Light deadwood in the crown. Leaf area and vigour are fair.	C	2	4.3	59
C03	PT4123	1	2	460	Ash - Fraxinus excelsior	10	Early-mature	Fair	Fair	Codominant stems at ground level, union is not visible, stems are heavily obscured by ivy. Eastern stem has a strong sweep and is weighted to the east, western stem also has poor form. Leaf area and vigour are fair, dieback in the crown periphery.	C	2	5.5	96
C03	PT4124	1	1	320	Sitka spruce - Picea sitchensis	13	Early-mature	Fair	Moderate	Stem and branch unions are heavily obscured by ivy. Crown breaks around 1 m from ground level, crown is partially suppressed by neighbouring trees, extending to the south. Foliage area and vigour are fair.	C	2	3.8	46
C03	PT4125	1	1	260	Sitka spruce - Picea sitchensis	10	Early-mature	Fair	Moderate	Stem and branch unions are heavily obscured by ivy. Crown is partially suppressed by neighbouring tree, branches are extending to the south. Foliage area and vigour are fair.	C	2	3.1	31
C03	PT4126	1	1	650	Ash - Fraxinus excelsior	15	Mature	Fair	Moderate	Stem is obscured by ivy, codominance 2 m from ground level, union is not visible. Branch unions are obscured by ivy. Medium sized deadwood in the lower crown, dieback is progressing around the crown periphery. Sprouting in the inner crown, indicating retrenchment. Leaf area and vigour are fair.	C	3	7.8	191
C03	PTG4127	12	18	350	Ash - Fraxinus excelsior, Sitka spruce - Picea sitchensis	18	Early-mature	Fair	Fair	Group of multi stemmed Ash and single stemmed spruce trees. Almost all stems have heavy ivy coverage, unions are not visible. Dieback is progressing on a number of the Ash trees, only 20% live crown remaining. Foliage area and vigour on the spruce trees is normal.	C	2	4.2	55

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C01	PTG4128	5	5	280	Lawson cypress - Chamaecyparis lawsoniana	12	Semi-mature	Normal	Good	Small line of lawson cypress, straight stems with clear leaders, one of the trees has minor codominance higher in the crown. Foliage area and vigour appear normal.	B	2	3.4	35
C01	PT4129	1	3	382	Sycamore - Acer pseudoplatanus	12	Semi-mature	Normal	Moderate	Codominant stems at ground level, unions are not visible, stems are obscured by ivy. Crown breaks around 3 m from ground level, branch unions are obscured by ivy. Limbs extending to the east are beginning to over extend. Leaf area and vigour appear normal.	B	2	4.6	66
C01	PT4130	1	1	550	Tasmanian blue gum - Eucalyptus globulus	12	Early-mature	Fair	Fair	Lower trunk is obscured by bramble and other vegetation. Crown breaks around 4 m from ground level, limb unions appear good. Codominance higher in the crown, unions generally appear good. Topped and stub cut in the past, regrowth from the pruning wounds has partially restored the crown. The regrowth stems are over extended and the leaf area is fair, dieback is progressing around the crown.	C	2	6.6	137
C01	PT4131	1	1	630	Tasmanian blue gum - Eucalyptus globulus	15	Early-mature	Normal	Moderate	Trunk has a minor sweep and slight spiral growth pattern. Codominance around 5 m from ground level, moderate union. Further codominance higher in the crown, unions generally appear good. Some of the branches are beginning to over extend to the east. Leaf area and vigour appear normal.	B	2	7.6	180
C01	PT4132	1	4	582	Sycamore - Acer pseudoplatanus	14	Early-mature	Good	Moderate	Codominant stems at ground level, unions are obscured by epicormic growth. Crown breaks around 2.5 m from ground level, branch unions generally appear good. Crown has a good spread, extending over the water course and to the north and east. Leaf area and vigour appear normal.	B	2	7	153
C01	PT4133	1	4	694	Ash - Fraxinus excelsior	15	Early-mature	Good	Moderate	Multi stem at ground level, unions are not visible, soil level appears to have been modified. The eastern stem has codominance and the union has a bark inclusion, the stems appear to have grafted above the union. The western stems are weighted towards the water course. The branches have a weeping form and the crown is almost at ground level. Appears to have been topped in the past, regrowth has restored the crown. Leaf area and vigour are good.	B	2	8.3	218



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C01	PT4134	1	1	600	Ash - Fraxinus excelsior	14	Mature	Good	Moderate	Lower trunk has sweep, codominance 2.5 m from ground level, union appears good. Crown raised in the past, large lower limbs removed, occlusion is occurring. Minor deadwood in the crown, topped in the past, regrowth from the pruning wounds has restored the crown. Leaf area and vigour are good.	B	2	7.2	163
C01	PT4206	1	2	381	Alder - Alnus glutinosa	9	Early-mature	Normal	Moderate	Dbh estimated, lower stems are not visible, tree is established between a 2 m high wall and the water course. Visible branch unions generally appear good. Light dieback in parts of the crown, light deadwood. Leaf vigour appears normal.	C	2	4.6	66
C01	PT4207	1	2	250	Sycamore - Acer pseudoplatanus	6	Semi-mature	Normal	Moderate	Dbh estimated, lower stem is not visible, tree is established between a 2 m high wall and the water course. Visible branch unions generally appear good. Leaf area and vigour appear normal.	C	2	3	28
C01	PT4208	1		150	Grey willow - Salix cinerea	6	Semi-mature	Normal	Moderate	Dbh estimated, lower stem is not visible, tree is established between a 2 m high wall and the water course. Light branching in the upper crown, visible unions generally appear good. Leaf area and vigour appear normal.	C	2	1.8	10
C01	PT4209*	1		250	Osier Willow - Salix viminalis	8	Semi-mature	Normal	Moderate	Dbh estimated, lower stem is not visible, tree is established between a 2 m high wall and the water course. Codominance around 2.5 m from ground level, union is not visible. Fractured branch hanging in the crown. Main stems are over extended and have a poor growth pattern. Leaf area and vigour are moderate.	C	2	3	28
C01	PT4210*	1		200	Osier Willow - Salix viminalis	8	Semi-mature	Normal	Moderate	Dbh estimated, lower stem is not visible, tree is established between a 2 m high wall and the water course. Main stem is weighted to the east over the boundary wall. Visible branch unions are moderate. Leaf area and vigour are moderate.	C	2	2.4	18
C01	PT4211	1	1	700	Tasmanian blue gum - Eucalyptus globulus	16	Early-mature	Good	Moderate	Large lower trunk, codominant stems around 2.5 m from ground level, union appears good. Branch unions generally appear good. Light deadwood accumulating in the lower and inner crown. Crown conflict with the neighbouring communications pole and cable. Some over extension on the main limbs. Leaf area and vigour appear normal.	B	2	8.4	222

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C01	PT4212	1	1	210	Cabbage palm - Cordyline australis	5	Semi-mature	Normal	Moderate	Straight stem, crown breaks around 2 m from ground level, codominant stems, union has a bark inclusion. Higher branch union has a bark inclusion. Crown is partially suppressed by neighbouring tree but the foliage area and vigour generally appears normal for the species.	B	2	2.5	20
C01	PT4213	1	1	630	Weeping willow - Salix babylonica	10	Mature	Fair	Moderate	Large lower trunk, first major limb 1.5 m from ground level, union appears good. Crown has a wide spread and the limbs and branches are extending downwards into the water course. Number of partially fractured branches hanging in the crown, light deadwood in the inner crown. Leaf area and vigour are moderate.	B	2	7.6	180
C01	PT4214	1	3	216	Chilean myrtle - Luma apiculata	5	Semi-mature	Good	Moderate	Multi stem at ground level, unions are not visible, obscured by epicormic growth and bramble. Light branch framework, moderate to good unions. Leaf area and vigour appear good, abundant flowering.	B	2	2.6	21
C01	PT4215	1	1	570	Weeping willow - Salix babylonica	10	Mature	Fair	Moderate	First limb breaks around 1.5 m from ground level, union appears good. Codominance 2.5 m from ground level, union appears good. Evidence of historic limb failures, large tear out wound, partially occluded. Medium sized deadwood in the inner crown, number of partially fractured branches. Leaf area is moderate, signs of dieback around the crown periphery, vigour is generally moderate.	B	2	6.8	147
C01	T4227	1	3	379	Sycamore - Acer pseudoplatanus	15	Early-mature	Good	Moderate	Codominant stems at ground level, one of the unions has a large bark inclusion. Further codominance higher in the crown, moderate union. Branch unions generally appear good. Leaf area and vigour appear good.	C	2	4.5	65
C01	T4228	1	1	200	Ash - Fraxinus excelsior	10	Semi-mature	Fair	Moderate	Lower stem has sweep, codominance 2 m from ground level, moderate union. Crown is partially suppressed by neighbouring trees leading to a poor growth pattern. Crown conflict with the neighbouring electrical network. Leaf area and vigour appear fair.	C	2	2.4	18
C01	T4229	1	1	400	Alder - Alnus glutinosa	9	Early-mature	Normal	Fair	Lower stem breaks into multiple stems around 2 m from ground level, heavily topped in the past for the electricity network. Unions are not visible, heavily obscured by ivy. Major crown conflict with the overhead electricity network. Leaf area and vigour appear normal.	C	2	4.8	72

Watercourse Identifier	Feature ID	No of Trees	Stem Count	Stem Diameter (mm)	Tree Species	Height (m)	Life stage	Vitality Class	Structural Condition	Observations	Retention Category	Retention Sub category	RPR-Root Protection Radius (m)	RPA-Root Protection Area (m²)
C01	T4230	1	1	400	Ash - Fraxinus excelsior	13	Early-mature	Fair	Fair	Straight stem, crown breaks around 5 m from ground level, branch unions are not visible. Heavily topped in the past for the electricity network, regrowth from the pruning wounds has partially restored the crown. Crown is heavily suppressed by neighbouring trees, leaf area and vigour appear fair.	C	2	4.8	72
C01	T4231	1	2	320	Osier Willow - Salix viminalis	11	Semi-mature	Normal	Fair	Codominant stems at ground level, unions are not visible. Stems have a poor growth pattern. Major crown conflict with the overhead electricity network, likely to have been topped in the past. Leaf area and vigour appear normal.	C	2	3.8	46
C01	T4232	1	4	482	Alder - Alnus glutinosa	18	Early-mature	Normal	Moderate	Codominant stems at ground level, unions are not visible, obscured by ivy. Branch unions are obscured by ivy. Leaf area and vigour appear normal.	C	2	5.8	105
C01	T4233	1	1	450	Common Beech - Fagus sylvatica	16	Early-mature	Normal	Moderate	Trunk is heavily obscured by ivy, minor codominance 1 m from ground level, union is not visible. Branch unions are obscured by ivy. Leaf area and vigour appear normal.	B	2	5.4	92
C01	T4234	1	1	180	Horse chestnut - Aesculus hippocastanum	8	Semi-mature	Fair	Fair	Stem has a strong lean to the west, crown is weighted to the west over the water course. Crown is partially suppressed by neighbouring trees. Major leaf blotch on the foliage, vigour is fair.	C	2	2.2	15
C01	TG4235	3	3	200	Hawthorn - Crataegus monogyna	8	Early-mature	Normal	Moderate	Small group of hawthorn, stems are heavily obscured by ivy. Crown breaks around 2.5 m from ground level, branch unions are not visible. Heavy ivy in the crown. Leaf area and vigour appear normal, fruit production appears normal.	B	2	2.4	18
C01	TG4236	8		250	Ash - Fraxinus excelsior, Alder - Alnus glutinosa, Common Beech - Fagus sylvatica, Hawthorn - Crataegus monogyna, Osier Willow - Salix viminalis	10	Semi-mature	Normal	Fair	Dense group of multi stemmed trees established on a steep embankment above the water course. Stems are heavily obscured by ivy. Tree form is generally fair, crowns are suppressed by neighbouring trees. Leaf area and vigour generally appears normal.	C	2	3	28
C01	PT4237	1	2	565	Silver Birch - Betula pendula	15	Mature	Poor	Poor	Codominant stems at ground level, union is not visible, stems are obscured by ivy. Decay, small hollows, and wounds around the base of the eastern stem. Severe dieback in the main stems in the top of the crown, medium sized deadwood accumulating. Lower limbs have some foliage but are slightly over extended. Leaf area and vigour appear fair.	C	3	6.8	144

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C01	PT4238	1	1	1040	Horse chestnut - Aesculus hippocastanum	18	Mature notable	Fair	Moderate	Large lower trunk, breaks into 3 major stems 2 m from ground level. One of the unions has a large bark inclusion. Crown breaks around 3.5 m from ground level, moderate to good branch unions. Topped in the past, regrowth from the pruning wounds has restored the crown. Fractured branch hanging in the crown. Leaf area is normal but major leaf blotch.	B	2	12.5	489
C01	PT4239	1	1	700	Sycamore - Acer pseudoplatanus	19	Mature	Normal	Moderate	Lower trunk has minor sweep, codominance 4 m from ground level, moderate union, partially obscured by ivy. Heavily topped in the past, regrowth from the pruning wounds has restored the crown. Branch unions are generally moderate. Leaf area and vigour appear normal.	B	2	8.4	222
C01	TG4240	25		250	Alder - Alnus glutinosa, Ash - Fraxinus excelsior, English elm - Ulmus procera	18	Early-mature	Poor	Poor	Tree group established on an island, foot access is not possible. Stems are heavily obscured by ivy, other climbers, and dense bramble. 85% of the trees are standing dead, all elms. Remaining live trees are generally of a low quality.	C	2	3	28
C01	PT4241*	1	4	406	Alder - Alnus glutinosa	10	Semi-mature	Good	Moderate	Dbh estimated, tree is established between a boundary wall and the water course. Multi stem at ground level, unions are not visible, stems are obscured by ivy. Branch unions are not visible. Leaf area and vigour appear good.	B	2	4.9	75
C01	PT4242*	1	3	226	Osier Willow - Salix viminalis	10	Semi-mature	Normal	Moderate	Dbh estimated, tree is established between a boundary wall and the water course. Multi stem at ground level, unions are not visible. Light branch framework, some over extension on the main stems. Leaf area and vigour appear good.	B	2	2.7	23
C01	PT4243*	1	2	531	Ash - Fraxinus excelsior	16	Early-mature	Normal	Moderate	Dbh estimated, tree is established between a boundary wall and the water course. Codominant stems at ground level, union is not visible, stems are obscured by ivy. Branch unions are not visible. Crown is weighted to the west over the water course. Light dieback around the crown periphery, remaining leaf vigour generally appears normal.	B	2	6.4	128
C01	T4244	1	3	163	Alder - Alnus glutinosa	6	Semi-mature	Normal	Fair	Codominant stems 0.5 m from ground level, moderate unions. Light branch framework, unions generally appear good. Moderate leaf area, shot holes in the leaves, some minor leaf browning.	C	2	2	12

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C01	T4245	1	2	216	Alder - Alnus glutinosa	8	Semi-mature	Good	Moderate	Whorl of branches at the base of the stem, unions generally appear good. Codominance 0.5 m from ground level, union appears good. Light branch framework, unions generally appear good. Leaf area and vigour appear good.	B	2	2.6	21
C01	T4246	1	1	210	Ash - Fraxinus excelsior	8	Semi-mature	Normal	Moderate	Minor ivy coverage, codominance 2 m from ground level, one of the unions has a partial bark inclusion. Branch unions generally appear good. Light dieback around the crown periphery, remaining leaf area and vigour appear normal.	B	2	2.5	20
C01	T4247	1	1	230	Sycamore - Acer pseudoplatanus	10	Semi-mature	Normal	Moderate	Likely to be a self seeded tree, established near a boundary wall. Minor codominance 1 m from ground level, union appears good. Light branch framework, unions generally appear good, light over extension. Leaf area and vigour appear normal.	C	2	2.8	24
C01	PT4248	1	1	500	Eucalyptus spp	16	Early-mature	Normal	Moderate	Dbh estimated, tree is established in the garden of a private dwelling house, boundary wall obstructs access to the lower stem. Codominance 2 m from ground level, unions are not visible. Over extension in the main stems. Light crown conflict with the neighbouring communications cable. Foliage area and vigour generally appear normal, light dieback in a small portion of the crown.	B	2	6	113
C01	T4280	1	1	550	Large - leaved Lime - Tilia platyphyllos	16	Early-mature	Good	Moderate	Lower trunk is obscured by ivy, codominance 2.5 m from ground level, union is not visible. Further codominance 3.5 m from ground level, moderate union. Epicormic growth around the base of the stem, minor conflict with foot path. Branch unions generally appear good. Leaf area and vigour appear good. Crown conflict with the street light.	B	2	6.6	137
C01	TG4281	2	3	369	Alder - Alnus glutinosa, Sycamore - Acer pseudoplatanus	12	Semi-mature	Normal	Moderate	Two trees have effectively fused together. The alder is growing up between the two sycamore stems. Lower stems are obscured by ivy. Visible branch unions generally appear good. Leaf area and vigour appear normal.	B	2	4.4	62
C01	T4282	1	2	320	Alder - Alnus glutinosa	8	Semi-mature	Normal	Moderate	Codominant stems at ground level, union is not visible, stems are obscured by ivy and other vegetation. Visible branch unions generally appear good. Light dieback on the southern stem, remaining leaf area and vigour appear normal.	C	2	3.8	46



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C01	T4283	1	2	531	Alder - Alnus glutinosa	16	Early-mature	Fair	Moderate	Codominant stems at ground level, union is not visible, stems are heavily obscured by ivy. Northern stem is dead. Dieback in the crown of the southern stem, medium sized deadwood accumulating. Leaf area and vigour of the remaining live crown appears normal.	C	2	6.4	128
C01	T4284	1	3	583	Alder - Alnus glutinosa	16	Mature	Fair	Moderate	Multi stem at ground level, unions are heavily obscured by ivy. Eastern stem has a natural lean towards the road and pavement. Crown breaks around 2.5 m from ground level, branch unions are not visible. Light dieback around the crown periphery. Leaf area and vigour in the remaining live crown appears normal. Ivy management recommended.	C	2	7	154
C01	T4285	1	4	636	Ash - Fraxinus excelsior	18	Mature	Fair	Fair	Multi stem at ground level, unions are not visible, stems are heavily obscured by ivy. Eastern stem has a natural lean to the east towards the road and pavement, some over extension in the stem. Crown breaks around 2.5 m from ground level, branch unions are not visible. Western portion of the crown extends over the water course. Medium sized deadwood in the crown, dieback around the crown periphery. Leaf area and vigour are fair. Ivy management recommended.	C	2	7.6	183
C01	T4286	1	1	290	Elder - Sambucus nigra	5	Early-mature	Normal	Fair	Stem has a strong lean to the northeast and sweep, moderate ivy coverage. Crown breaks around 2.5 m from ground level, branch unions are not visible. Historic storm damage in the upper crown, main stem has a tear scar, fungal activity on the wound. Leaf area and vigour on the remaining live crown appear good.	C	2	3.5	38
C01	T4287	1	1	700	Sycamore - Acer pseudoplatanus	18	Mature	Normal	Moderate	Lower trunk has a natural sweep, codominance 2 m from ground level, union appears good. Crown breaks 4 m from ground level, branch unions generally appear good. Crown has a good even spread, leaf area and vigour appear normal.	A	2	8.4	222

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C01	T4288	1	1	330	Cherry spp - Prunus spp	5	Early-mature	Normal	Fair	Stem has a slight lean to the east, codominance 1.5 m from ground level, union has a bark inclusion. Further codominance 2 m from ground level, moderate unions. Crown raised in the past leaving stub cuts. Main limbs are over extended to the east over the road and pavement. Leaf area and vigour appear normal. Recommended tree management works - Reduce end weight on the over extended limbs to the east, clean crown of any deadwood or defective branches.	C	2	4	49
C01	T4289	1	1	250	Purpled leaved Plum - Prunus cerasifera Nigra	6	Early-mature	Good	Moderate	Lower stem has sweep and a slight spiral growth pattern. Crown breaks around 2 m from ground level, one of the unions has a bark inclusion. Dense branching in the inner crown, light over extension on the eastern limb. Leaf area and vigour appear good.	B	2	3	28
C01	PH4290	13		350	Ash - Fraxinus excelsior, Alder - Alnus glutinosa, Sycamore - Acer pseudoplatanus	5	Early-mature	Fair	Fair	Line of multi stemmed early mature trees, heavily topped in the past. Most stems are obscured by ivy. Sprouting from the historic pruning wounds. Leaf area is generally fair, vigour is moderate to fair, dieback in many of the stems.	C	2	4.2	55
C02	T4291	1	1	460	Large - leaved Lime - Tilia platyphyllos	10	Semi-mature	Normal	Moderate	Lower stem is obscured by ivy, codominance 2 m from ground level, union appears to have a bark inclusion. Branch unions are obscured by ivy. Light over extension on the branches in the eastern side of the canopy. Leaf area and vigour appear normal.	B	2	5.5	96
C02	T4292	1	1	250	Whitebeam - Sorbus aria	7	Semi-mature	Normal	Fair	Stem and branch unions are heavily obscured by ivy. Crown is partially suppressed by neighbouring tree, extending to the west. Leaf area and vigour appear normal for the crown size.	C	2	3	28
C02	H4293			150	Ash - Fraxinus excelsior, Alder - Alnus glutinosa, Sycamore - Acer pseudoplatanus, Common Beech - Fagus sylvatica, Grey willow - Salix cinerea	6	Semi-mature	Normal	Fair	Boundary hedge along the water course, southern side of the canopy is regularly pruned, maintained. Northern side of the canopy extends over the water course. Number of multi stem and single stemmed trees. Leaf area and vigour generally appears normal.	C	2	1.8	10
C02	PT4294	1	2	282	Elder - Sambucus nigra	7	Early-mature	Normal	Fair	Codominant stems at ground level, unions are not visible, stems are heavily obscured by ivy. Branch unions are obscured by ivy. Crown is partially suppressed by neighbouring tree. Leaf area and vigour appear normal for the crown size.	C	2	3.4	36

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C02	PT4295	1	1	200	Hawthorn - Crataegus monogyna	4	Semi-mature	Fair	Fair	Stem is heavily obscured by ivy, crown breaks around 1.5 m from ground level, branch unions are not visible. Crown is heavily suppressed by neighbouring trees leading to poor crown form. Leaf area is fair but the vigour appears normal. Bird nest in the crown.	C	2	2.4	18
C02	PT4296	1	3	291	Sycamore - Acer pseudoplatanus	10	Semi-mature	Normal	Fair	Multi stem at ground level, unions are not visible, stems are heavily obscured by ivy. Branch unions are obscured by ivy. Western stems are weighted over the water course, eastern stem is weighted towards the yard. Leaf area and vigour appear normal.	C	2	3.5	38
C02	PT4297*	1	2	494	Ash - Fraxinus excelsior	11	Early-mature	Normal	Fair	Codominant stems at ground level, unions are not visible, stems are heavily obscured by ivy. Visible branch unions higher in the crown generally appear good, light over extension to the east. Western stems extend over the water course. Leaf area and vigour generally appears normal.	C	2	5.9	110
C02	PT4298	1	2	250	Alder - Alnus glutinosa	5	Semi-mature	Fair	Poor	Codominant stems at ground level, union is not visible, stems are heavily obscured by ivy. Topped in the past, regrowth from the pruning wounds has partially restored the crown. Light deadwood accumulating in the crown. Leaf area is fair, dieback is progressing.	C	2	3	28
C02	PT4299	1	1	150	Sycamore - Acer pseudoplatanus	5	Semi-mature	Normal	Fair	Codominant stems 1.5 m from ground level, union is not visible, stems are heavily obscured by ivy. Branch unions are obscured by ivy. Leaf area and vigour appear normal.	C	2	1.8	10
C02	PTG4300	5	8	350	Sycamore - Acer pseudoplatanus, Alder - Alnus glutinosa, Elder - Sambucus nigra	11	Early-mature	Normal	Fair	Small tree group established on a steep embankment. The largest tree is a sycamore, it has codominant stems 1.5 m from ground level with a bark inclusion, the northern stem has failed and is hung up on the neighbouring trees. Most stems are heavily obscured by ivy and weighted over the water course. Leaf area and vigour generally appears normal. Management recommendations - remove fractured stem.	C	2	4.2	55
C02	PT4301	1	1	250	Alder - Alnus glutinosa	7	Semi-mature	Poor	Poor	Lower stem is not visible, heavily obscured by ivy, bramble and other vegetation. Only 2% live crown remaining, tree is almost dead.	U	2	3	28
C02	PT4302	1	1	300	Alder - Alnus glutinosa	7	Semi-mature	Fair	Fair	Stem and branch unions are heavily obscured by ivy. Light deadwood accumulating in the crown, light dieback around the crown periphery. Leaf area is fair but the vigour appears normal.	C	2	3.6	41

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C05	PTG4516	4	8	400	Alder - Alnus glutinosa	15	Early-mature	Normal	Moderate	Line of single stem and multi stemmed alder trees. Lower stems are obscured by ivy, bramble and epicormic growth. The most western tree has medium sized deadwood in the crown, dieback is progressing around the crown periphery, leaf area is fair. The other trees in the group appear to have normal to good physiological condition. Visible branch unions generally appear good.	B	2	4.8	72
C05	PT4517	1	1	630	Ash - Fraxinus excelsior	25	Mature	Normal	Moderate	Lower stem is not visible, obscured by a boundary wall. Codominance around 2 m from ground level, union appears good. Crown breaks around 2.5 m from ground level, branch unions generally appear good. Light deadwood in the inner crown, minor signs of dieback around the crown periphery. Good crown spread, leaf vigour generally appears normal.	A	2	7.6	180
C05	PT4518	1	1	500	Ash - Fraxinus excelsior	18	Early-mature	Normal	Moderate	Trunk and crown are heavily obscured by ivy, branch unions are not visible. Over extension of the limbs to the west and east. Leaf area and vigour generally appears normal, very minor signs of dieback. Ivy management recommended.	B	2	6	113
C05	PT4519	1	2	417	Ash - Fraxinus excelsior	16	Early-mature	Normal	Fair	Codominant stems 0.5 m from ground level, moderate union. Further codominance 1.5 m from ground level, poor union with a bark inclusion. Crown is partially suppressed by neighbouring trees weighted to the west and east, over extension in the limbs. Leaf area and vigour generally appears normal.	C	2	5	79
C05	PT4520	1	3	345	Ash - Fraxinus excelsior	18	Early-mature	Normal	Fair	Codominant stems at ground level, one of the unions has a large bark inclusion. Crown is partially suppressed by neighbouring trees, extending to the west and east, over extension in the western stems. Visible branch unions generally appear good. Leaf area and vigour appear normal.	C	2	4.1	54
C05	PT4521	1	1	800	Pedunculate oak - Quercus robur	15	Mature	Fair	Moderate	Stem and branch unions are heavily obscured by ivy. Historic storm damage in the crown, appears to have lost its leader, regrowth from the wounds. Light dieback around the crown periphery, light deadwood. Remaining leaf vigour generally appears normal.	B	3	9.6	289
C05	PT4522*	1	1	170	Ash - Fraxinus excelsior	10	Semi-mature	Good	Moderate	Lower stem is not visible, obscured by a boundary wall. Stem has sweep, crown breaks around 2.5 m from ground level, branch unions generally appear good, light branch framework. Leaf area and vigour appear good.	B	2	2	13

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C05	PT4523	1	1	750	Pedunculate oak - Quercus robur	12	Mature	Normal	Moderate	Lower stem is not visible, obscured by a boundary wall. Historic storm damage in the crown, dense sprouting from the stubs. Limbs to the north are slightly over extended, branch unions are generally not visible. Leaf area and vigour appear good, dense inner crown.	B	3	9	254
C05	PT4524	1	1	700	Pedunculate oak - Quercus robur	25	Mature	Good	Moderate	Lower stem is obscured by a boundary wall, epicormic growth on the lower stem and in the crown. Crown breaks around 6 m from ground level, partial codominance, union appears good. Branch unions are obscured by epicormic growth on the stem. Historic storm damage in the crown, large stub with a tear scar. Leaf area and vigour appear good.	A	3	8.4	222
C05	PT4525	1	1	800	Pedunculate oak - Quercus robur	17	Mature	Fair	Moderate	Trunk is obscured by ivy, codominance 2.5 m from ground level, union is not visible. Crown is partially suppressed by neighbouring tree, extending to the east and south. Evidence of historic storm damage in the crown, stubs and tear scars. Light deadwood in the crown, signs of dieback around the crown periphery. Appears to be some chlorosis in the leaves.	B	3	9.6	289
C05	PT4526	1	1	400	Alder - Alnus glutinosa	10	Early-mature	Good	Moderate	Stem is obscured by a boundary fence. Crown breaks around 3.5 m from ground level, branch unions generally appear good. Stem has a natural sweep, crown is weighted to the east. Leaf area and vigour appear good.	B	2	4.8	72
C05	PT4527*	1	1	650	Grey poplar - Populus x canescens	22	Mature	Normal	Moderate	Lower stem is not visible, obscured by a boundary fence, moderate ivy coverage on the stem. Crown breaks around 8 m from ground level, branch unions generally appear good. Good crown spread, leaf area and vigour appear normal.	A	2	7.8	191
C05	PH4528	9		200	Ash - Fraxinus excelsior, Sycamore - Acer pseudoplatanus, English elm - Ulmus procera, Grey willow - Salix cinerea	6	Semi-mature	Fair	Fair	Line of multi stem trees, mostly dead elms. Stems are obscured by climbers and other vegetation. Leaf area and vigour of the live trees appears normal.	C	2	2.4	18
C09	PW4559	100		250	Ash - Fraxinus excelsior, Alder - Alnus glutinosa	14	Early-mature	Normal	Moderate	Small dense woodland of multi stem and single stemmed trees. Heavy ivy coverage on most stems. Ash trees are established around the periphery, most of the wood is alder. A few of the alders have a low leaf area and vigour but the majority appear normal to good.	B	2	3	28



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C09	PH4560	100		270	Ash - Fraxinus excelsior, Alder - Alnus glutinosa, Pedunculate oak - Quercus robur, Hawthorn - Crataegus monogyna, Ash - Fraxinus excelsior, Alder - Alnus glutinosa, Pedunculate oak - Quercus robur, Grey willow - Salix cinerea, Hawthorn - Crataegus monogyna, English elm - Ulmus procera	12	Early-mature	Normal	Moderate	Dense line of early mature trees established on a raised embankment. Most trees are multi stemmed, dense ivy, bramble, climbers, and other vegetation around the base of the trees. Elms are mostly dead, light sprouting in places. Ash trees generally have good physiological condition, dieback around the crown periphery in one or two trees. Leaf area and vigour on the willows and oaks appears normal.	B	2	3.2	33
C09	PT4561	1	1	370	Aspen - Populus Tremula	16	Early-mature	Normal	Good	Stem has a natural lean to the east, crown breaks around 8 m from ground level, unions appear good. Branch unions generally appear good. Leaf area and vigour appear normal.	A	2	4.4	62
C09	PT4562	1	1	320	Wild Crab - Malus sylvestris	12	Mature	Normal	Moderate	Main stem has a strong sweep, heavily obscured by ivy, branch unions are not visible. Dense ivy in the crown. Leaf area and vigour generally appears normal, tree is producing fruit.	B	2	3.8	46
C09	PT4563	1	2	424	Ash - Fraxinus excelsior	14	Early-mature	Normal	Moderate	Codominant stems 0.5 m from ground level, union appears good. Crown breaks around 4.5 m from ground level, branch unions generally appear good. Leaf area and vigour appear normal.	B	2	5.1	81
C09	PT4564	1	1	370	Wild Crab - Malus sylvestris	14	Mature	Normal	Fair	Stem has a strong sweep and spiral growth pattern. Crown is suppressed by neighbouring trees, poor stem form. Light deadwood in the crown, moderate branch unions. Leaf area and vigour appear normal.	B	2	4.4	62
C09	PT4565	1	1	410	Aspen - Populus Tremula	14	Early-mature	Normal	Moderate	Codominant stems at ground level, one of the stems has been removed. Crown raised in the past leaving large stubs and bark damage. Crown breaks around 9 m from ground level, stem unions generally appear good. Leaf area and vigour appear normal.	B	2	4.9	76
C09	PT4566	1	1	550	Ash - Fraxinus excelsior	14	Early-mature	Normal	Fair	Trunk breaks into 3 major stems 2.5 m from ground level, the central stem has been removed, leaving large stubs, sprouting from the stubs. Branches are beginning to over extend, unions are generally moderate. Leaf area and vigour appear normal.	C	2	6.6	137
C09	PT4567	1	1	440	Alder - Alnus glutinosa	14	Early-mature	Normal	Good	Compaction around the base of the stem from livestock, also some mild bark damage from scratching. Straight stem with a clear leader, crown breaks around 2.5 m from ground level, branch unions generally appear good. Leaf area and vigour appear normal.	A	2	5.3	88

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C09	PT4568	1	2	813	Ash - Fraxinus excelsior	25	Mature	Good	Moderate	Very large stump, codominant stems 0.5 m from ground level, moderate union. Further codominance higher in the crown, unions appear good. Branch unions generally appear good. Crown raised in the past leaving stubs. Leaf area and vigour appear good.	A	2	9.8	299
C09	PT4569	1	1	340	Common Beech - Fagus sylvatica	12	Semi-mature	Fair	Moderate	Stem has a natural sweep, crown is suppressed by neighbouring trees. Light branch framework, unions generally appear good. Leaves are small in size, evidence of chlorosis and leaf browning.	C	2	4.1	52
C09	PT4570	1	1	300	Ash - Fraxinus excelsior	20	Early-mature	Normal	Fair	Stem has sweep and a spiral growth pattern, cavity at the base of the stem. Codominance 7 m from ground level, moderate union. Evidence of historic storm damage, stubs and tear scars. Crown is partially suppressed by neighbouring trees, weighted to the south. Leaf area and vigour are moderate to fair.	C	2	3.6	41
C09	PT4571	1	1	500	Ash - Fraxinus excelsior	20	Mature	Fair	Moderate	Codominant stems 3 m from ground level, unions appear good. Crown raised in the past leaving stubs, fractured branches hanging in the crown. Over extension on some of the limbs. Light dieback around the crown periphery, leaf area and vigour appear moderate.	B	2	6	113
C09	PT4572	1	2	531	Ash - Fraxinus excelsior	25	Early-mature	Good	Moderate	Multi stem at ground level, one of the stems has been removed, one of the remaining stems is heavily obscured by ivy. Crown breaks around 6 m from ground level, branch unions generally appear good. Leaf area and vigour are good.	B	2	6.4	128
C09	PT4573	1	2	583	Ash - Fraxinus excelsior	18	Mature	Normal	Fair	Codominant stems at ground level, moderate union, ivy on the northern stem, branch unions are not visible. Crown form is generally fair, weighted to the west with some over extension. Light dieback around the crown periphery, remaining leaf area and vigour appear normal.	C	2	7	154
C09	PT4574	1	1	1300	Common Beech - Fagus sylvatica	8	Ancient	Poor	Poor	Large lower trunk, heavily obscured by ivy. Crown breaks around 5 m from ground level, branch unions are not visible. Most of the crown is missing, only 10% live crown remaining and the leaf area and vigour are poor. Deadwood and dead stubs around the stem, likely to have a hollow trunk.	C	3	19.5	1194
C09	PT4575	1	1	480	Ash - Fraxinus excelsior	20	Early-mature	Good	Moderate	Stem has a slight spiral growth pattern, crown breaks around 5 m from ground level, unions appear good. Branch unions higher in the crown generally appear good, light deadwood in the inner crown. Leaf area and vigour appear good.	A	2	5.8	104

Watercourse Identifier	Feature ID	No of Trees	Stem Count	Stem Diameter (mm)	Tree Species	Height (m)	Life stage	Vitality Class	Structural Condition	Observations	Retention Category	Retention Sub category	RPR-Root Protection Radius (m)	RPA-Root Protection Area (m²)
C09	PT4576	1	2	576	Ash - Fraxinus excelsior	20	Early-mature	Normal	Fair	Codominant stems at ground level, moderate union. Southern stem has a strong lean to the south, over extension. Northern stem is obscured by ivy, limbs and branches are beginning to over extend. Crown is partially suppressed by neighbouring trees, poor crown form. Leaf vigour appears normal.	C	2	6.9	150
C09	PT4577	1	2	558	Ash - Fraxinus excelsior	18	Early-mature	Fair	Fair	Codominant stems at ground level, moderate union. Ivy on the stems and in the crown, branch unions are not visible. Leaf area and vigour are fair.	C	2	6.7	141
C09	PT4578	1	1	390	Ash - Fraxinus excelsior	15	Early-mature	Fair	Moderate	Light ivy coverage on the stem, crown breaks around 2.5 m from ground level, branch unions generally appear good. Light deadwood in the inner crown, light dieback around the crown periphery. Remaining leaf area and vigour generally appears normal.	C	2	4.7	69
C09	PT4579	1	3	768	Common Beech - Fagus sylvatica	16	Mature	Fair	Fair	Evidence of excavation and root severance close to the base of the stem. Multi stem at ground level, codominance higher on the stems, unions have bark inclusions and have also self grafted in places. Crown raised in the past leaving stubs, light deadwood in the inner crown. Leaf area and vigour are poor.	C	2	9.2	267
C09	PT4580	1	3	632	Pedunculate oak - Quercus robur	14	Early-mature	Fair	Fair	Multi stem at ground level, evidence of excavation and root severance close to the base of the stem. One of the main stems has been removed. The northern stem has a strong lean and is heavily over extended. The southern stem has a large wound, evidence of decay. Crown is suppressed by neighbouring trees.	C	2	7.6	181
C09	PT4581	1	1	370	Ash - Fraxinus excelsior	15	Early-mature	Fair	Moderate	Evidence of decay and fungal activity around the base of the stem and in one of the buttresses. Codominance 2.5 m from ground level, moderate union. Light deadwood in the inner crown, dieback is progressing around the crown periphery. Leaf area and vigour are fair.	C	2	4.4	62
C09	PH4582			100	Hawthorn - Crataegus monogyna	4	Semi-mature	Fair	Moderate	Scattered hawthorn trees forming an understorey to the mature tree line.	C	2	1.2	5
C09	PT4583	1	1	700	Pedunculate oak - Quercus robur	15	Mature	Normal	Moderate	Stem has a strong natural lean to the west, compaction around the base of the stem from livestock. Codominance 4 m from ground level, union appears good. Branch unions generally appear good. Leaf area and vigour appear normal.	B	2	8.4	222

Watercourse Identifier	Feature ID	No of Trees	Stem Count	Stem Diameter (mm)	Tree Species	Height (m)	Life stage	Vitality Class	Structural Condition	Observations	Retention Category	Retention Sub category	RPR-Root Protection Radius (m)	RPA-Root Protection Area (m²)
C09	PH4584	26		300	Alder - <i>Alnus glutinosa</i> , Common Beech - <i>Fagus sylvatica</i> , Pedunculate oak - <i>Quercus robur</i> , Hawthorn - <i>Crataegus monogyna</i>	10	Early-mature	Normal	Moderate	Line of semi mature to early mature trees established on a raised embankment. Most of the beech and alder are multi stemmed. Number of snags with veteran features along the embankment. Three of the oak trees are dead, the rest of the oaks have normal vitality. Alders are in fair to poor condition.	C	2	3.6	41
C09	PT4585	1	1	600	Pedunculate oak - <i>Quercus robur</i>	14	Early-mature	Fair	Moderate	Tree is established on a steep embankment, codominance 4 m from ground level, moderate unions. One of the lower limbs has been removed leaving a large tear scar. Main limbs have a strong lean to the west, some over extension. Light deadwood in the inner crown, signs of dieback around the crown periphery. Leaf area and vigour are moderate.	C	2	7.2	163
C09	PT4586	1	1	640	Pedunculate oak - <i>Quercus robur</i>	15	Early-mature	Fair	Moderate	Straight stem, minor codominance 4 m from ground level, union is not visible, stems are heavily obscured by ivy. Crown breaks around 6 m from ground level, branch unions are not visible. Light deadwood in the inner crown. Leaf area and vigour appear fair.	B	2	7.7	185
C09	PW4587			80	Alder - <i>Alnus glutinosa</i> , Silver Birch - <i>Betula pendula</i> , Oak spp - <i>Quercus</i> spp, Willow spp - <i>Salix</i> spp	5	Young	Good	Good	Broadleaf forestry established approximately 8 to 10 years ago. Approximately 2 x 2 plant spacing. Crowns are more or less closed. Tree vitality appears good.	C	2	1	3
C09	T4588	1	1	700	Pedunculate oak - <i>Quercus robur</i>	15	Mature	Normal	Moderate	Lower trunk breaks into 3 major stems 1.5 m from ground level, unions are not visible. Crown reduced in the past leaving stubs, sprouting is active on the stubs. Medium sized deadwood in the crown, light dieback around the crown periphery. Epicormic growth in the inner crown. Leaf area is moderate but the vigour appears normal. Veteran features on the tree.	B	3	8.4	222
C09	T4589	1	3	408	Pedunculate oak - <i>Quercus robur</i>	10	Early-mature	Normal	Moderate	Codominant stems 0.5 m from ground level, moderate unions. Further codominance 2 m from ground level, union has a partial bark inclusion. Branch unions generally appear good. Sprouting in the inner crown, leaf area and vigour generally appear normal.	B	2	4.9	75
C09	T4590	1	1	520	Aspen - <i>Populus Tremula</i>	14	Mature	Normal	Moderate	Trunk has sweep and a spiral growth pattern, codominance 2 m from ground level, moderate unions. Light deadwood accumulating in the inner crown. Leaf area is moderate, concentrated around the crown periphery, vigour is moderate, evidence of leaf browning.	B	2	6.2	122

Watercourse Identifier	Feature ID	No of Trees	Stem Count	Stem Diameter (mm)	Tree Species	Height (m)	Life stage	Vitality Class	Structural Condition	Observations	Retention Category	Retention Sub category	RPR-Root Protection Radius (m)	RPA-Root Protection Area (m²)
C09	H4591	40		250	Ash - Fraxinus excelsior, Alder - Alnus glutinosa, Pedunculate oak - Quercus robur, Grey willow - Salix cinerea	12	Early-mature	Normal	Moderate	Line of early mature multi stem trees established on a raised embankment. Codominance at ground level for most trees, moderate ivy coverage. Leaf area and vigour generally appears normal.	B	2	3	28
C09	H4592	40		200	Ash - Fraxinus excelsior, Alder - Alnus glutinosa, Pedunculate oak - Quercus robur, Hawthorn - Crataegus monogyna, Grey willow - Salix cinerea	12	Early-mature	Fair	Moderate	Line of early mature multi stem trees. Moderate ivy coverage and epicormic growth. Leaf area and vigour on the hawthorn and alders are fair, dieback is progressing on the Ash trees.	C	2	2.4	18
C09	T4593	1	2	420	Pedunculate oak - Quercus robur	14	Early-mature	Fair	Moderate	Codominant stems 0.5 m from ground level, union has a bark inclusion. Moderate ivy coverage, visible branch unions generally appear good. Light dieback around the crown periphery, leaf area is below optimal, leaf vigour appears normal.	B	2	5	80
C09	T4594	1	1	500	Pedunculate oak - Quercus robur	8	Early-mature	Fair	Moderate	Trunk breaks into two main stems 1.5 m from ground level, union appears good. Codominance in the crown, unions generally appear good. Light deadwood in the crown. Leaf area is fair but the vigour appears normal.	C	2	6	113
C09	T4595	1	2	537	Pedunculate oak - Quercus robur	14	Early-mature	Fair	Moderate	Codominant stems at ground level, union is not visible. Crown breaks around 3.5 m from ground level, branch unions generally appear good. Light to medium sized deadwood in the crown, light dieback around the crown periphery. Leaf area and vigour are moderate.	B	2	6.4	130
C06	PH4607	4		150	Ash - Fraxinus excelsior, Elder - Sambucus nigra, Hawthorn - Crataegus monogyna, Grey willow - Salix cinerea	9	Semi-mature	Fair	Moderate	Most of the hedge is bramble and small hawthorn approximately 2 m in height. There are 5 free grown trees, two Ash, two elder and one hawthorn. The vitality of the Ash is low, the hawthorn is normal and the elders are fair to normal.	C	2	1.8	10
C03	PH4638	5		150	Leyland cypress - Cupressocyparis leylandii	3	Semi-mature	Good	Moderate	Small hedge line established in the private garden of a dwelling house. Foliage area and vigour appear normal.	C	2	1.8	10
C03	PH4639			50	Common Beech - Fagus sylvatica	3	Young	Good	Moderate	Boundary hedge established in the front garden of a private dwelling house. Leaf area and vigour appear good.	C	2	0.6	1
C03	PH4640			50	Common Beech - Fagus sylvatica	3	Young	Good	Moderate	Boundary hedge established in the front garden of a private dwelling house. Leaf area and vigour appear good.	C	2	0.6	1
C05	PT4659	1	1	800	Pedunculate oak - Quercus robur	4	Mature	Good	Moderate	Mature oak stump with coppice growth. Tree was recently felled leaving a 1 m stump. Sprouting is active on the stump, shoots have moderate unions, leaf area and vigour appear good.	C	2	9.6	289

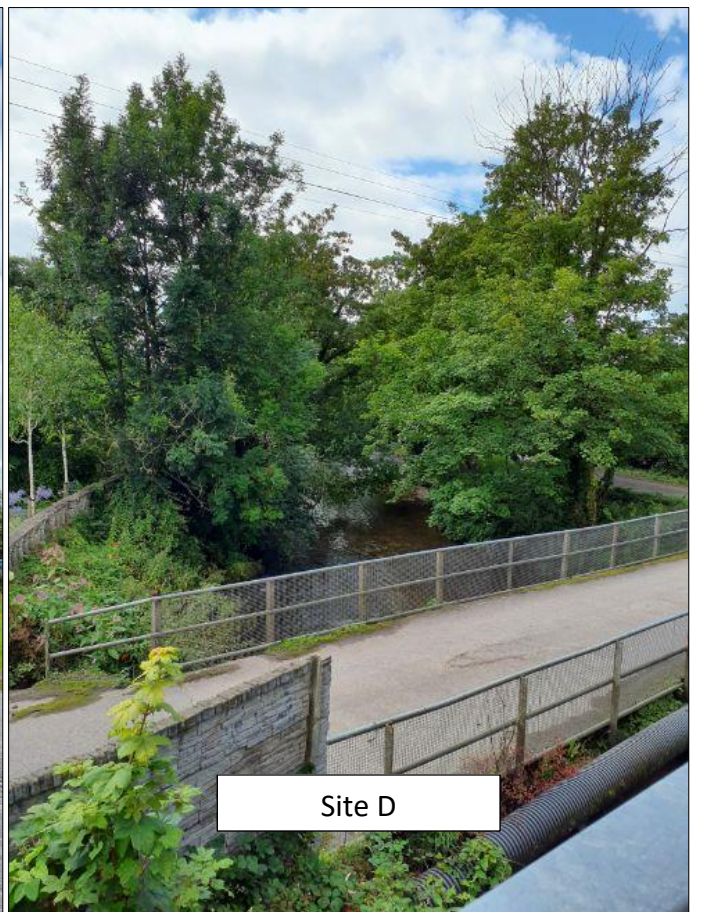
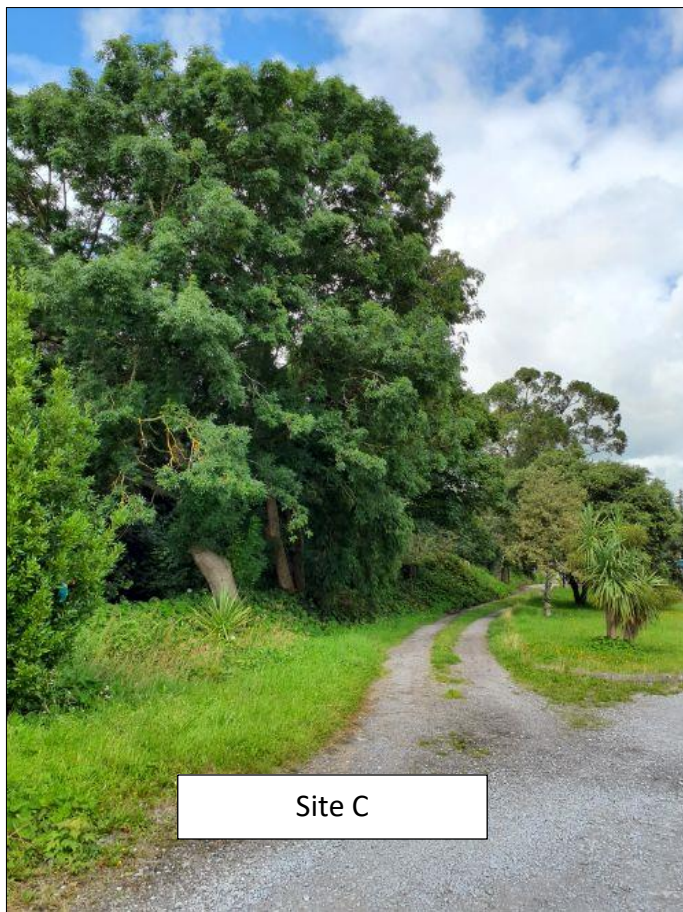
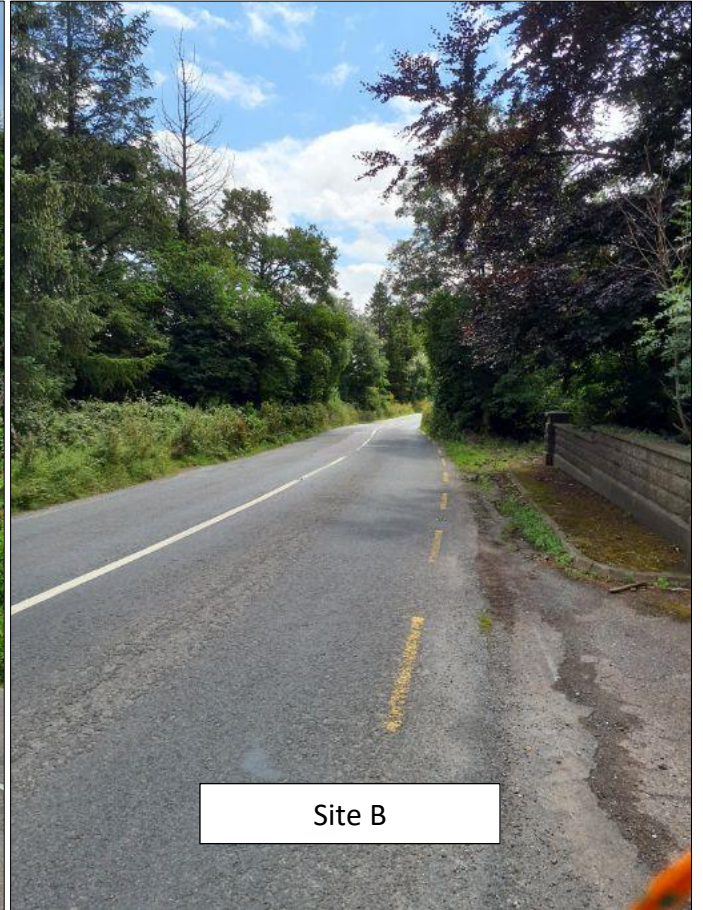
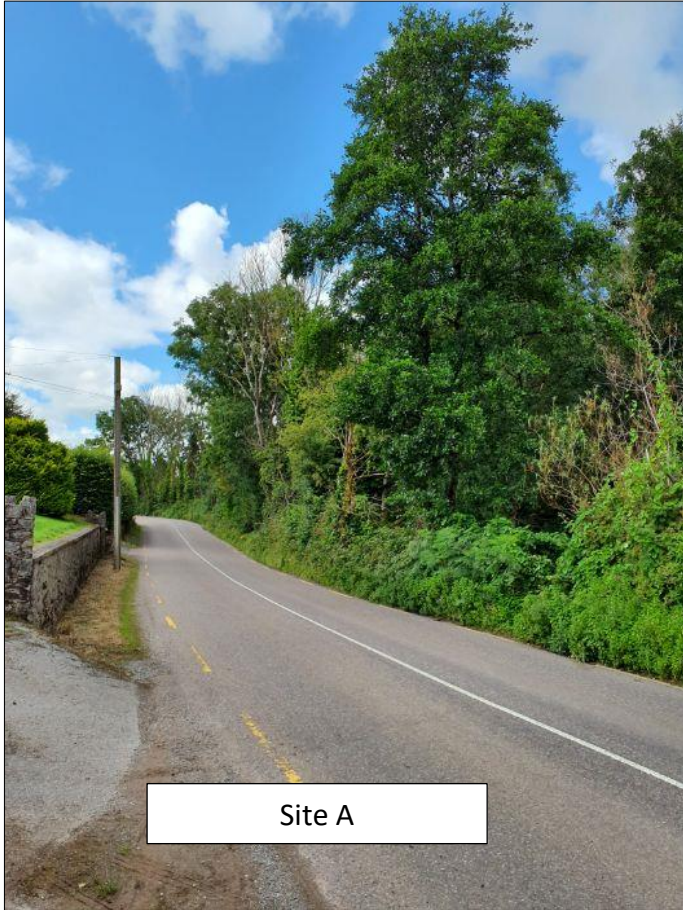


Watercourse Identifier	Feature ID	No of Trees	Stem Count	Stem Diameter (mm)	Tree Species	Height (m)	Life stage	Vitality Class	Structural Condition	Observations	Retention Category	Retention Sub category	RPR-Root Protection Radius (m)	RPA-Root Protection Area (m²)
C09	PT4660	1	2	662	Ash - Fraxinus excelsior	20	Early-mature	Fair	Moderate	Codominant stems at ground level, union appears good. Further codominance 6 m from ground level, unions appear good. Branch unions generally appear good, light deadwood accumulating in the crown. Signs of dieback around the crown periphery, leaf area is moderate but the vigour appears normal.	C	2	7.9	198
C09	PT4661	1	1	700	Ash - Fraxinus excelsior	25	Mature	Normal	Moderate	Codominant stems 1.5 m from ground level, union appears good. Crown breaks around 6 m from ground level, branch unions generally appear good, light over extension in places. Leaf area and vigour generally appear good.	A	2	8.4	222
C09	PT4662	1	2	487	Ash - Fraxinus excelsior	20	Early-mature	Normal	Fair	Multi stem at ground level, three of the stems have been removed leaving large stubs. One of the remaining stems is heavily obscured by ivy. Crown is suppressed by neighbouring trees leading to poor stem and crown form. Leaf area and vigour are moderate.	C	2	5.8	107
C09	PT4663	1	2	413	Ash - Fraxinus excelsior	15	Early-mature	Normal	Fair	Codominant stems at ground level, union is not visible. One of the stems has a large wound, evidence of decay and hollowing. Crown is suppressed by neighbouring trees leading to poor stem form, very strong sweep and lean to the north. Leaf area and vigour appear normal for the crown size.	C	2	5	77
C09	PT4664	1	1	420	Common Beech - Fagus sylvatica	12	Early-mature	Normal	Fair	Epicormic growth around the base of the stem, one of the stems appears to have been removed. Codominance 3 m from ground level, moderate union. Crown is heavily suppressed by neighbouring trees leading to poor crown form. Leaf area and vigour appear normal for the crown size.	C	2	5	80
C09	PT4665	1	1	340	Wild Crab - Malus sylvestris	9	Mature	Fair	Poor	Tree is partially uprooted, heavy lean to the east, evidence of root severance and decay. Codominance 2 m from ground level, union is not visible, stems are obscured by ivy. Leaf area is fair but the vigour appears normal, tree is producing fruit.	C	2	4.1	52
C09	PT4666	1	3	323	Hawthorn - Crataegus monogyna	8	Early-mature	Fair	Moderate	Evidence of excavation work and root severance close to the base of the stem. Codominance 0.5 m from ground level, unions are not visible. Crown breaks around 4 m from ground level, branch unions are obscured by ivy. Leaf area and vigour appear moderate.	C	2	3.9	47

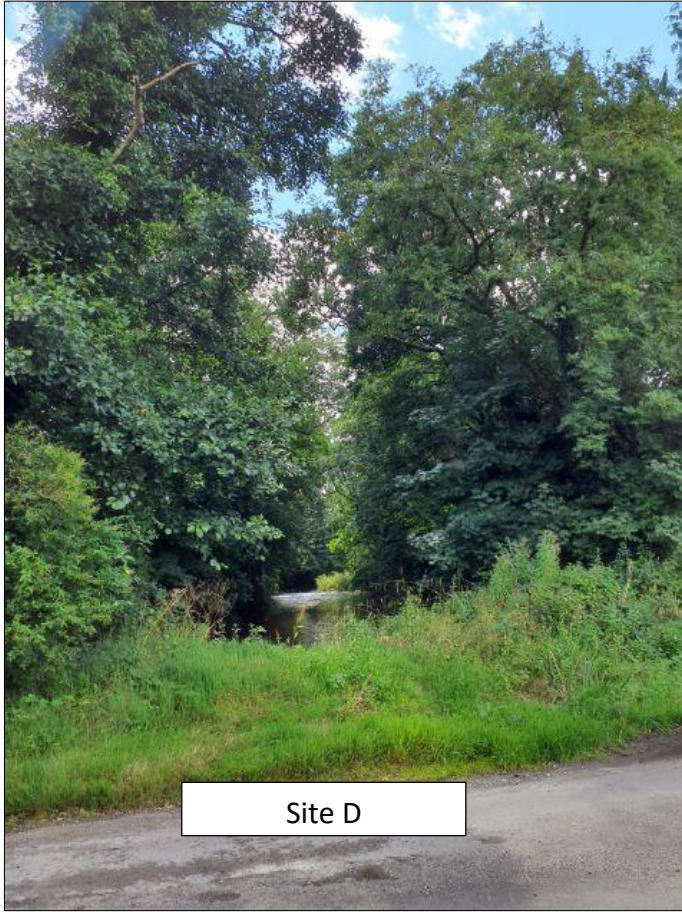
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C09	PT4667	1	1	360	Sycamore - Acer pseudoplatanus	10	Early-mature	Normal	Fair	Tree may have partially uprooted in the past, base of the stem is obscured by soil and brash piling. Stem has a strong sweep, crown is suppressed by neighbouring trees. Codominance in the crown, moderate union. Leaf area and vigour appear normal.	C	2	4.3	59
C09	PT4668	1	1	450	Common Beech - Fagus sylvatica	10	Early-mature	Normal	Poor	Stem has a very heavy lean and an L shaped growth pattern, likely to have partially uprooted in the past, evidence of root severance. Codominance 2 m from ground level, stems have a spiral growth pattern and a bark inclusion. Crown is suppressed by neighbouring trees, leaf area and vigour appear normal for the crown size.	C	2	5.4	92

# Appendix 4

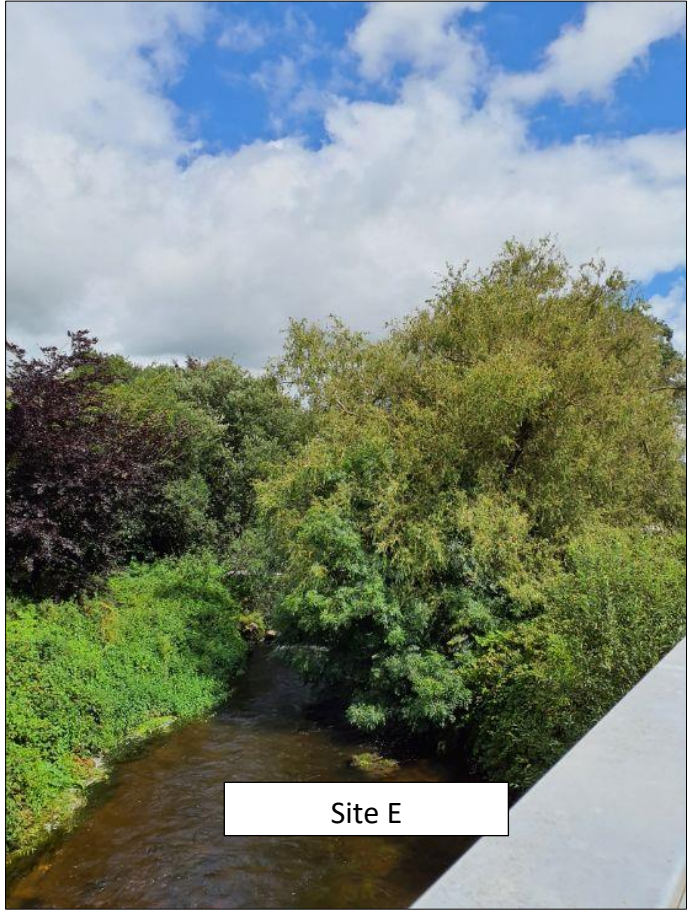








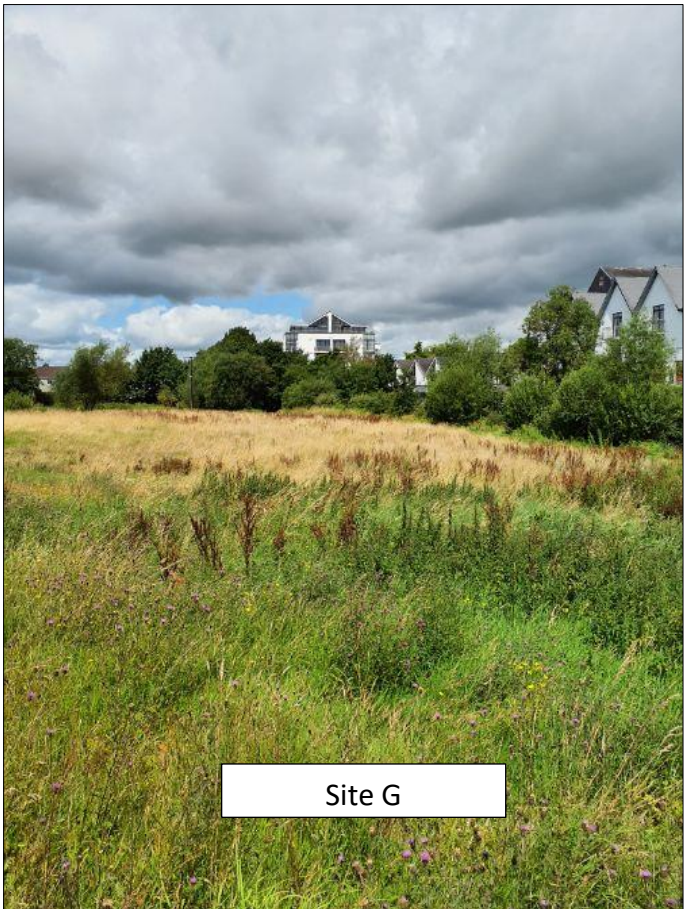
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Site E

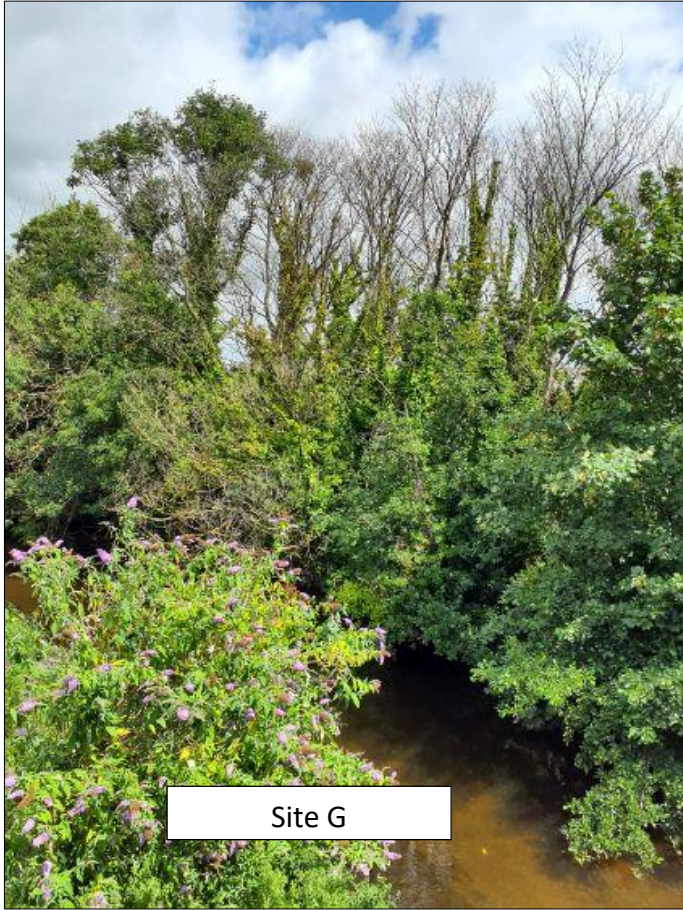


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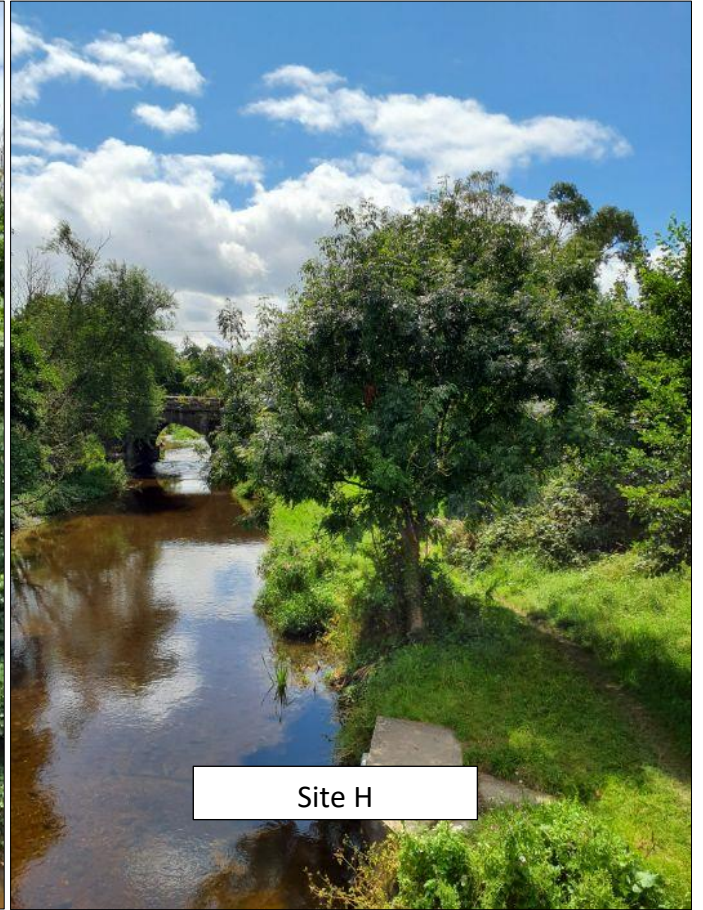


Site G





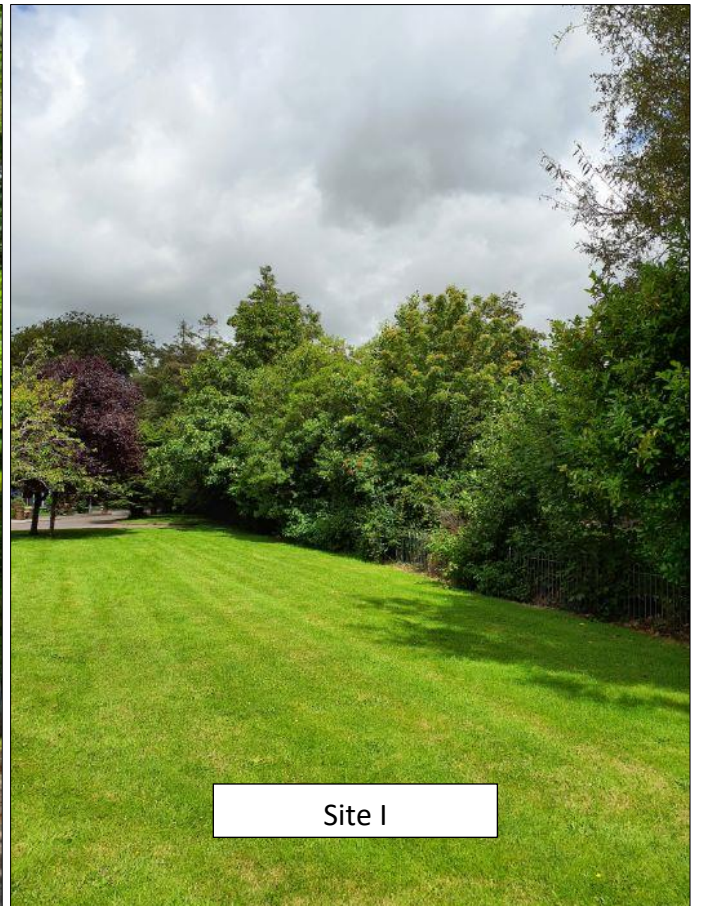
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Site H



Site I

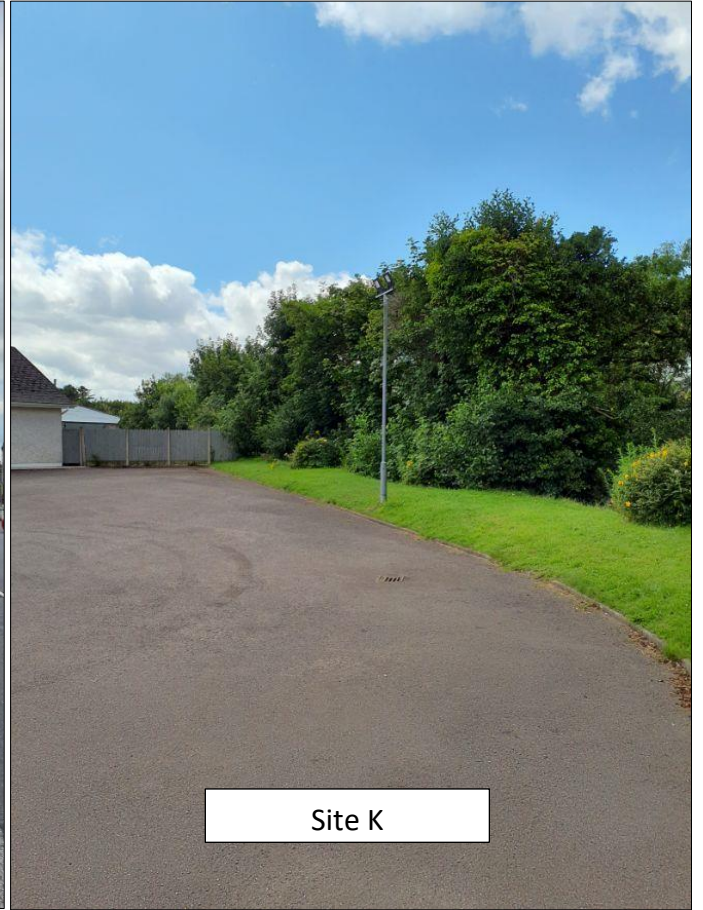


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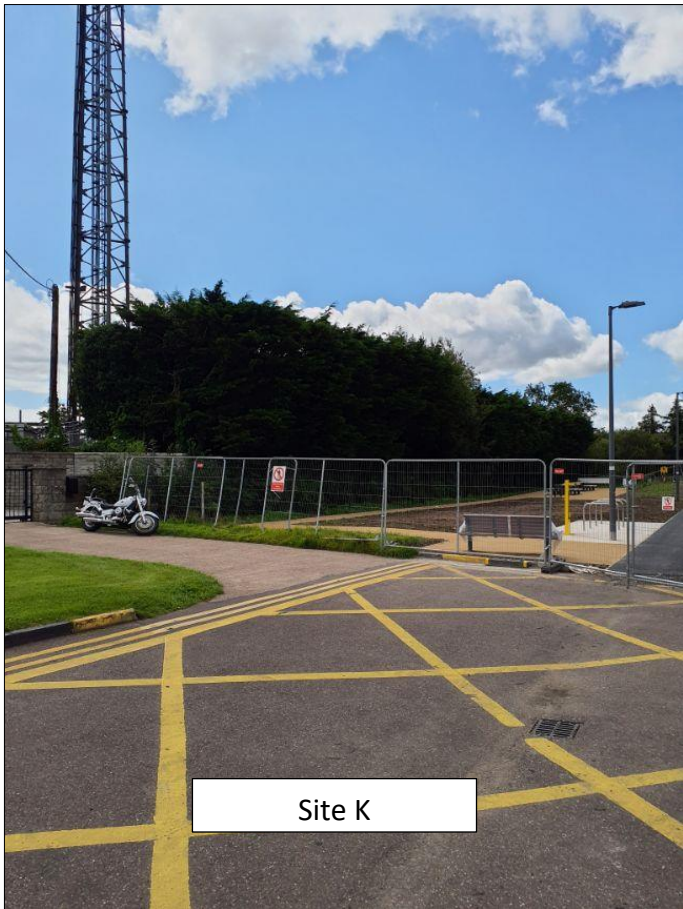




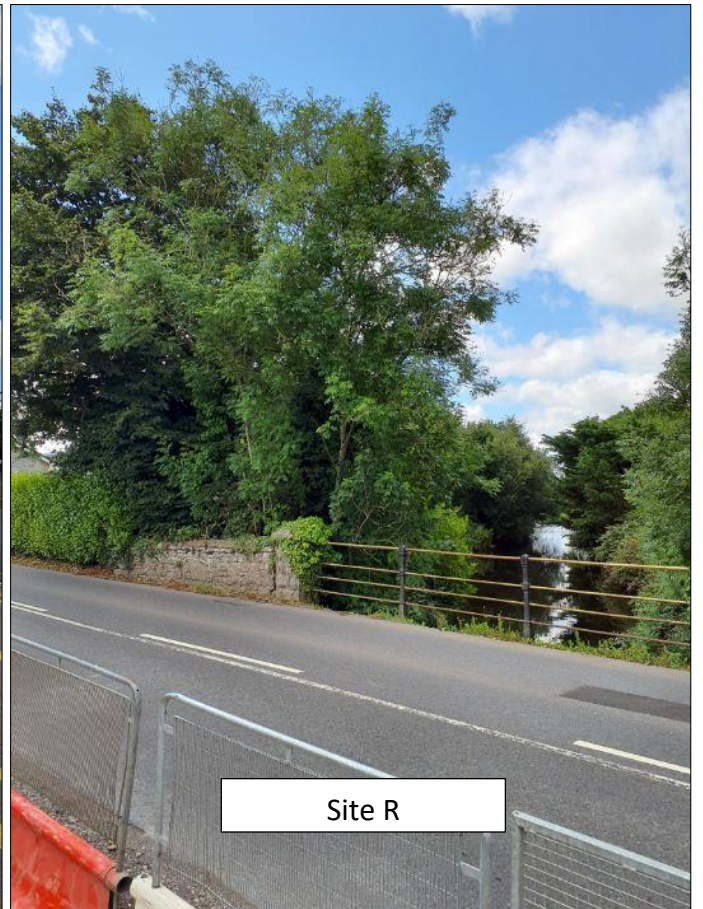
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Site K

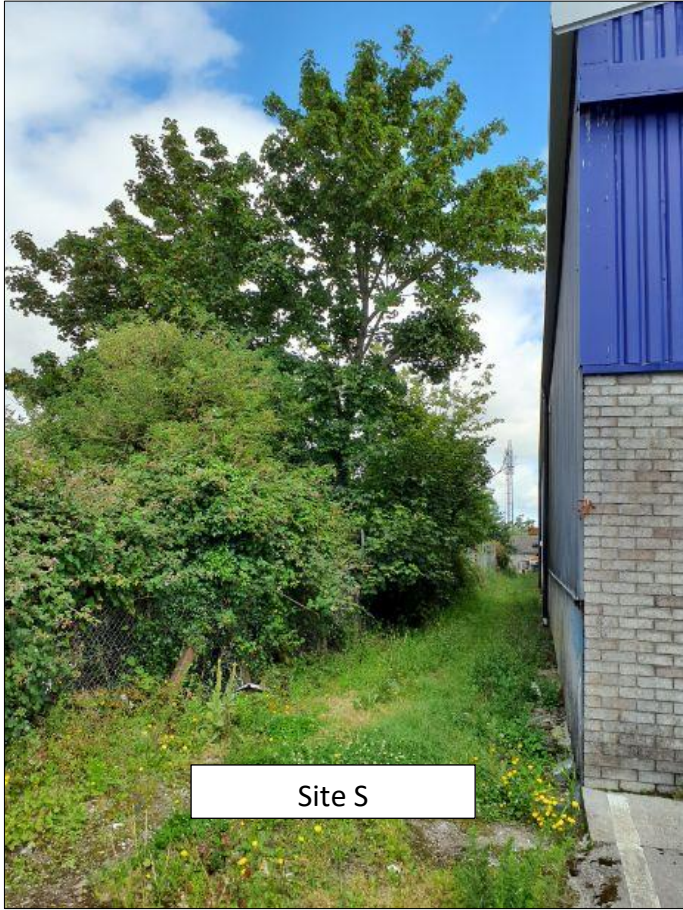


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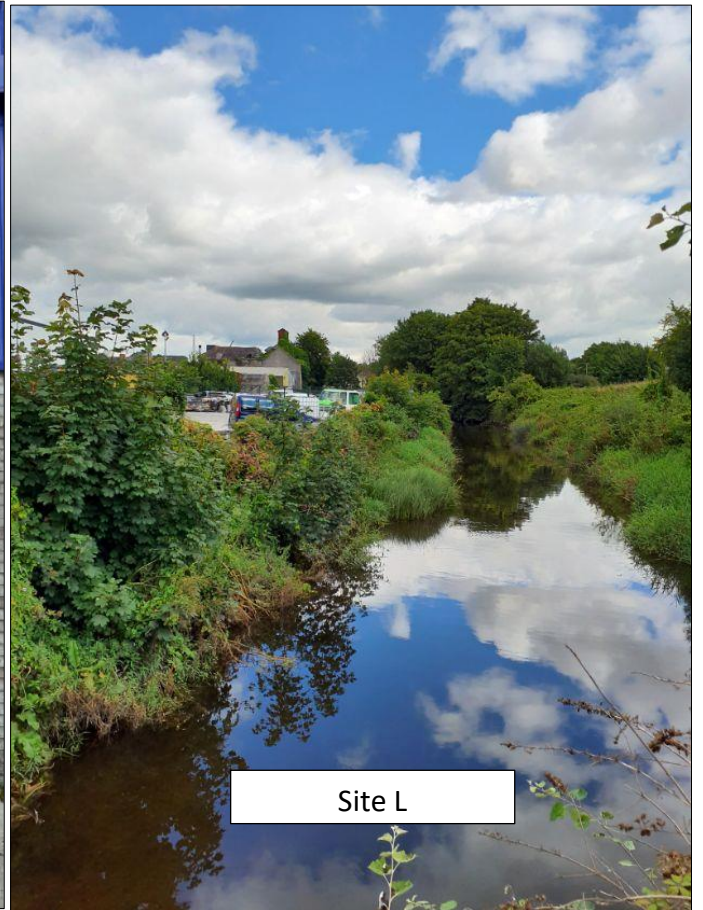


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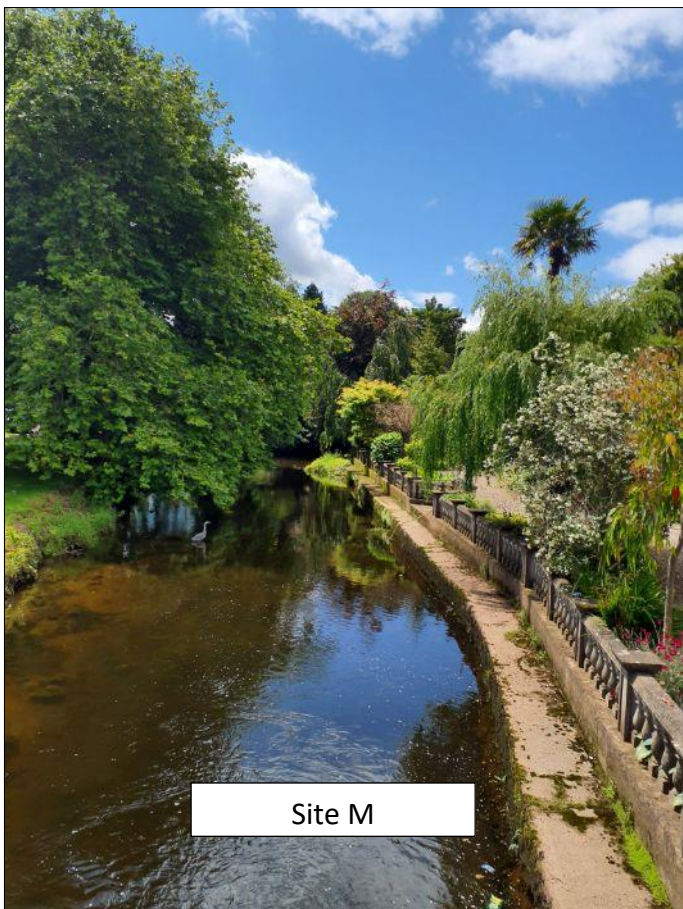




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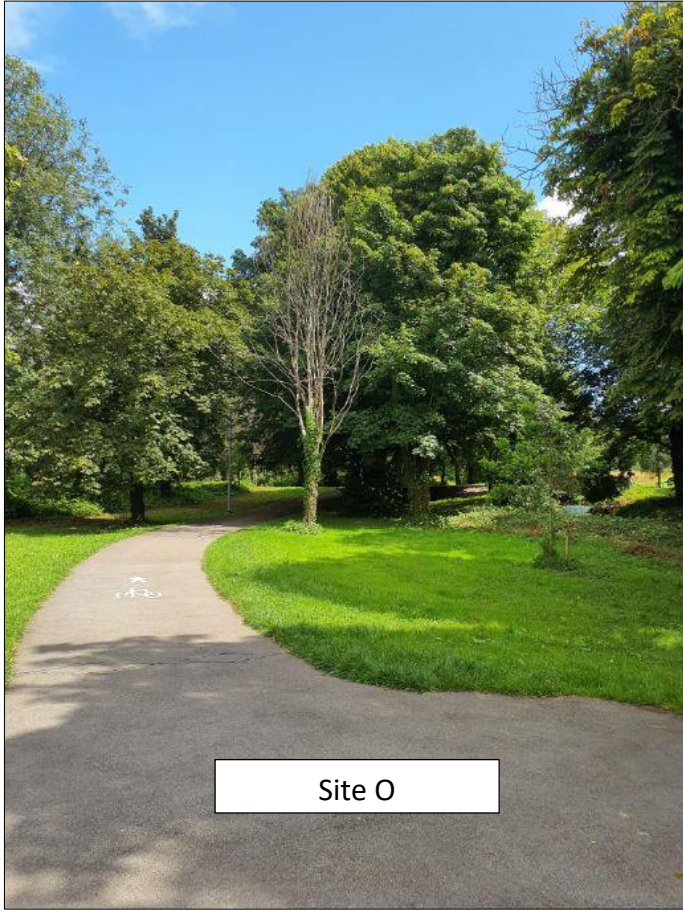


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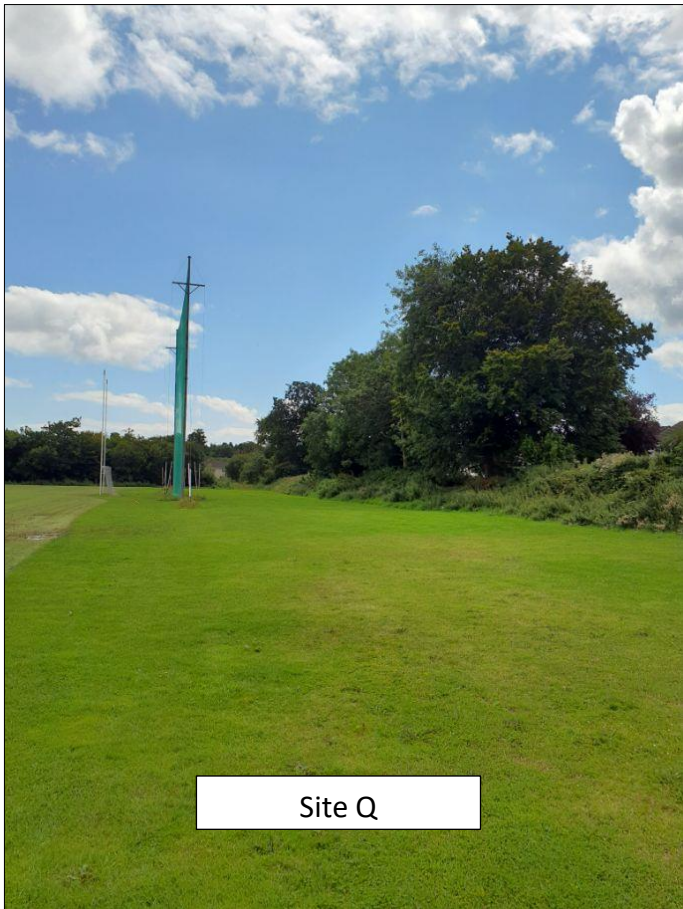




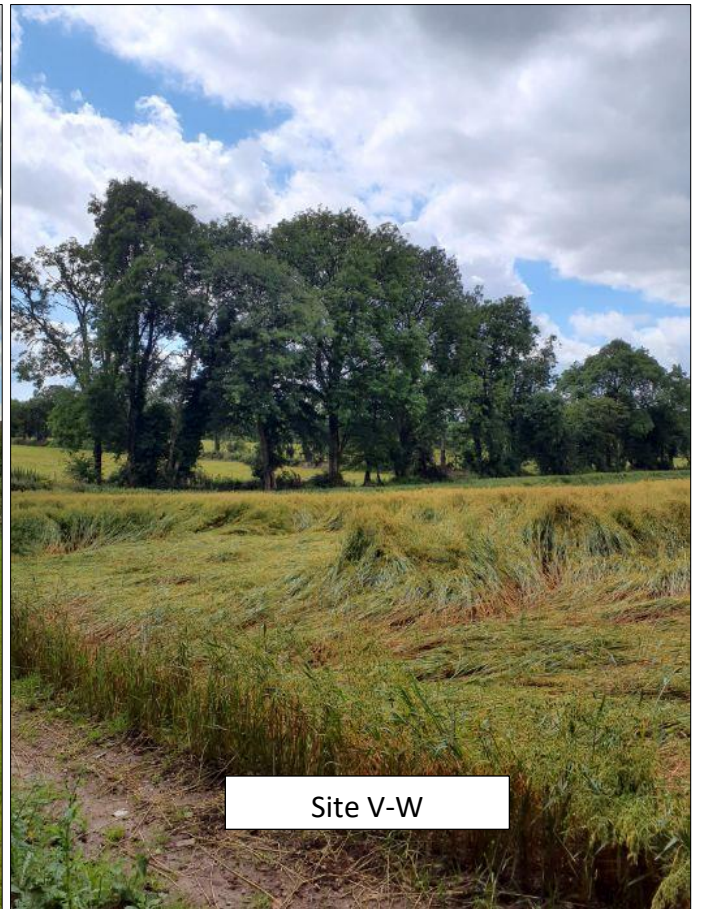
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Site P

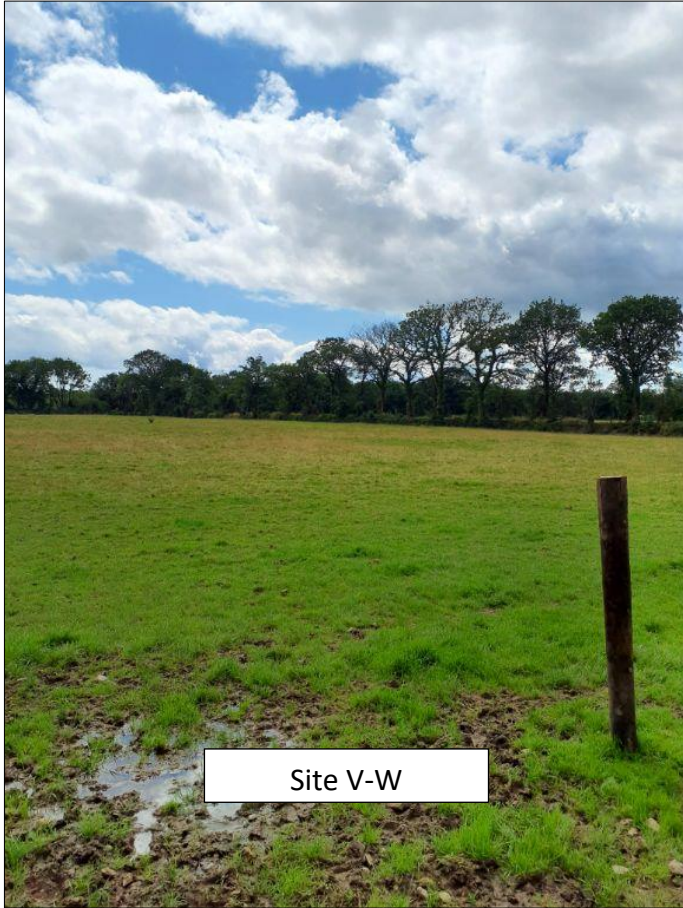


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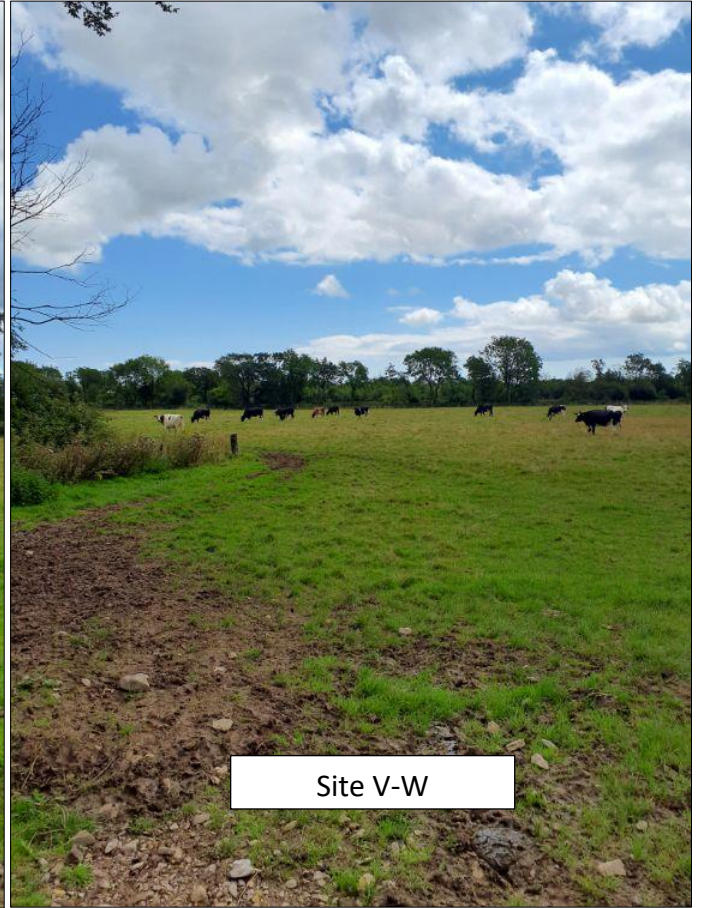


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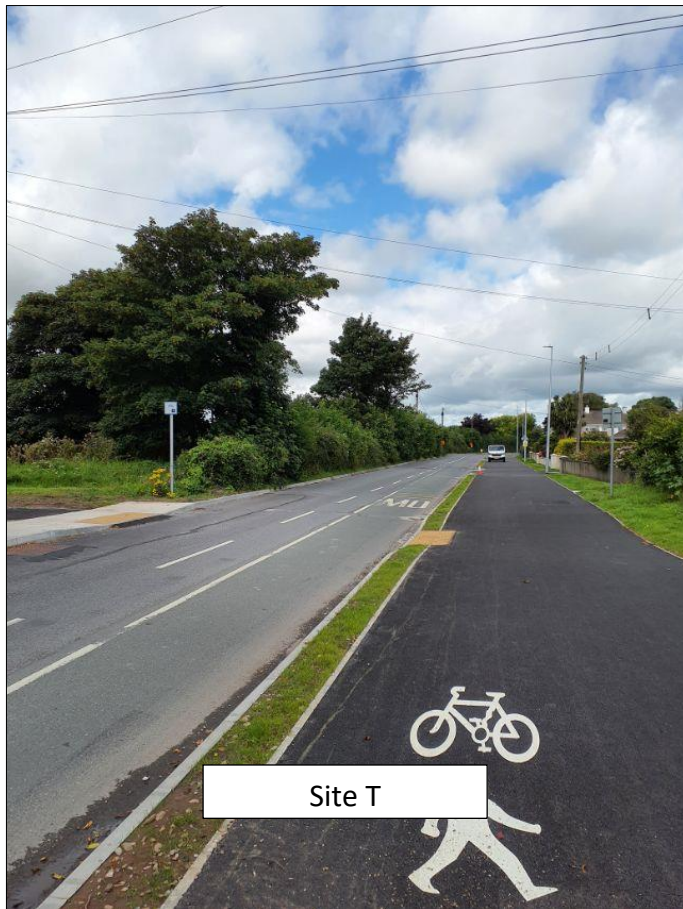




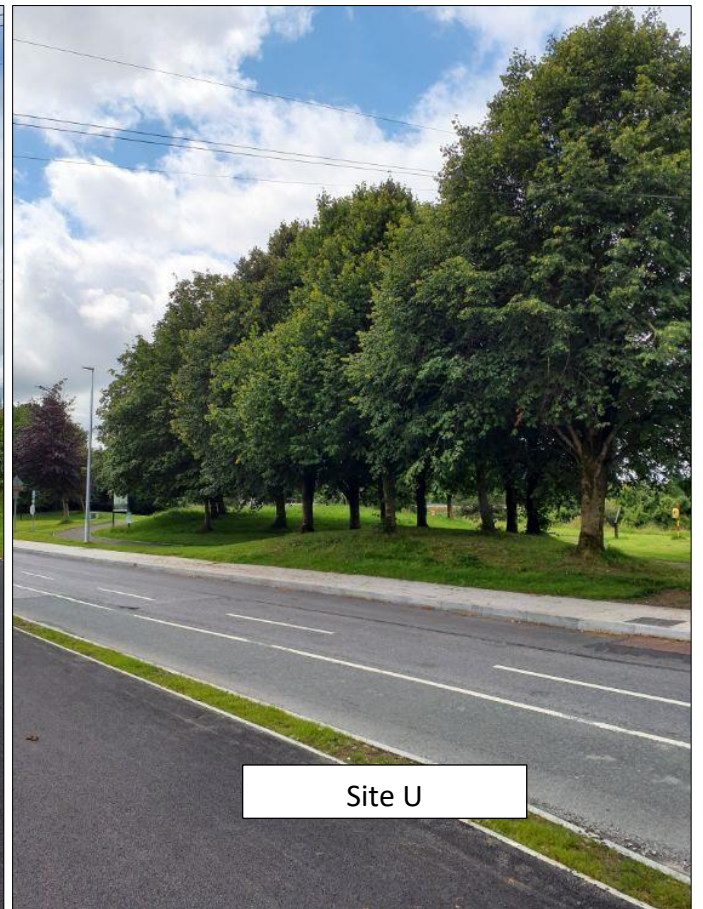
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Site V-W

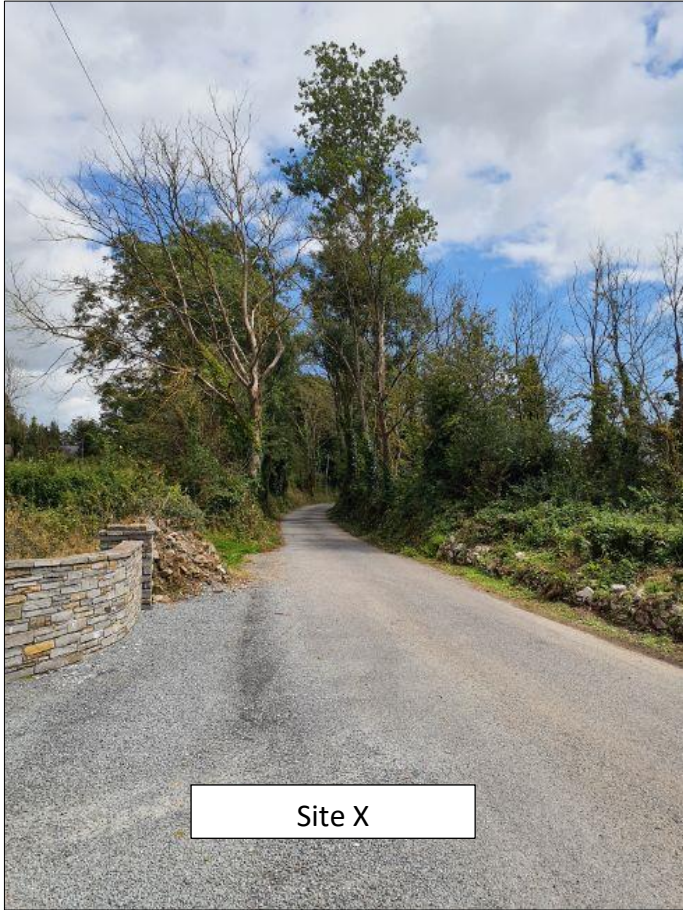


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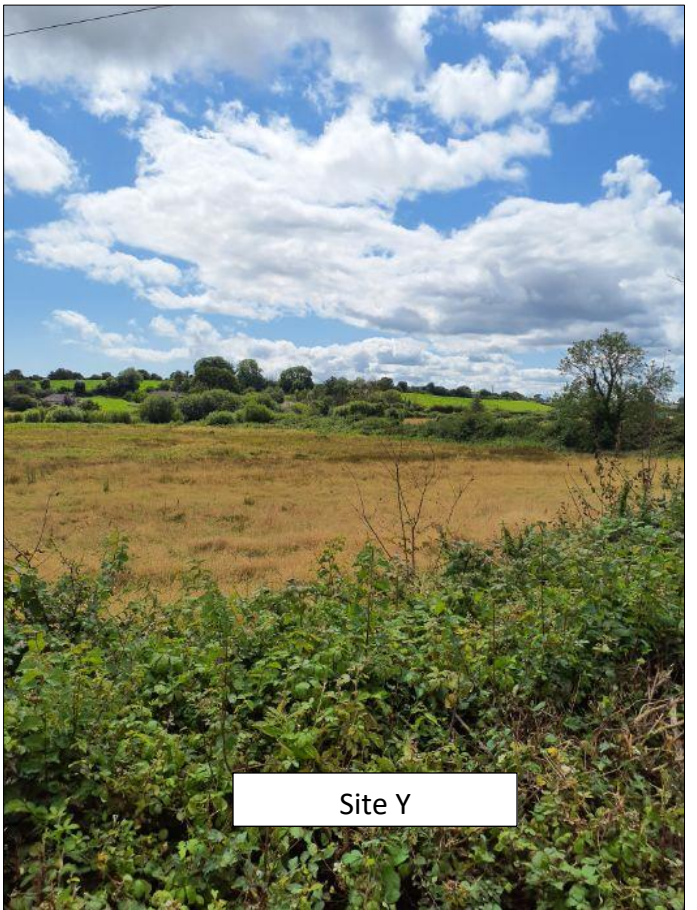


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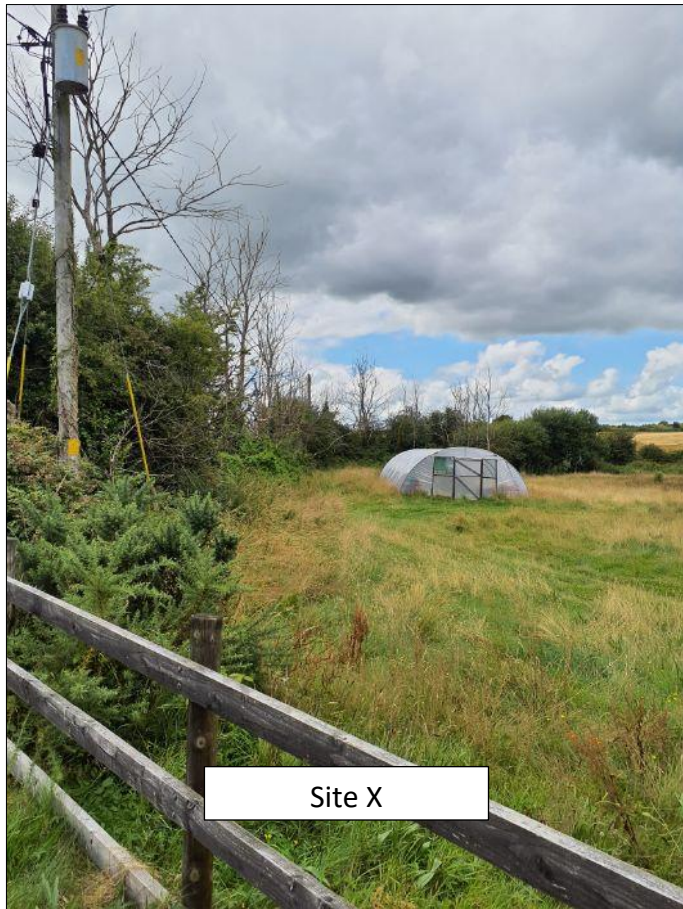




Site X



Site Y



Site X



Site Y