

# Bradley Park Golf Course, Huddersfield

## Preliminary Arboricultural Survey

August 2020

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|-------------------------|--------------------------------|
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# 1 Introduction

- 1.1.1.1 This report presents the results of a Preliminary walkover Arboricultural Survey undertaken at land at Bradley Park Golf Course, Huddersfield. The study area (see Figure 1) extends to approximately 56.4 ha and is centred on grid reference SE 15941 20999.
- 1.1.1.2 The Arboricultural Survey has been undertaken as a scoping exercise, in order to provide an overview of the existing arboricultural features within the site, supporting information for proposed residential development of the site.
- 1.1.1.3 The Preliminary Arboricultural Survey was conducted on 28<sup>th</sup> August 2020 by James Stacey M.Arbor.A.

**Figure 1. Approximate boundary of the proposed development outlined in red (aerial imagery dated 2019).**



## 2 Methodology

- 2.1.1.1 This arboricultural survey covers those trees or groups of trees which are considered relevant for the brief. During the survey all relevant individual trees and groups of trees located within and close to the boundary of the site were assessed. Trees with an estimated stem diameter of 75 mm or more that overhang the study area or are located within a distance of up to 12 times their estimated stem diameter were included in the survey.
- 2.1.1.2 The objective of the survey was to collect tree data relevant to the brief, in order to provide an overview of the existing arboricultural features and constraints within the site. A full BS5837:2012 Arboricultural Survey was not carried out; however, a similar approach has been followed to obtain the required information.
- 2.1.1.3 A desktop study was undertaken before visiting the site to identify any Tree Preservation Orders, Conservation Areas, Ancient Woodland or other statutory designations.
- 2.1.1.4 Individual trees or tree groups have been given an indicative category in accordance with BS 5837:2012 'Trees in relation to design, demolition and construction – Recommendations'<sup>1</sup> based on their condition, quality and future potential. The cascade chart in Table 2 of Appendix 1 provides information on quality assessment and criteria for each of the retention categories.
- 2.1.1.5 The purpose of the categories within BS 5837:2012 is not to determine whether retention of trees is desirable, 'The purpose of the tree categorization method, which should be applied by the arboriculturist, is to identify the quality and value (in a non-fiscal sense) of the existing tree stock, allowing informed decisions to be made concerning which trees should be removed or retained in the event of the development occurring.' (BS 5837:2012, Section 4.5.2). This survey should therefore be regarded as an initial appraisal with observations recorded for trees within and adjacent to the site. Remedial tree works, foundation design and material specification are not covered within this report.
- 2.1.1.6 The location of the trees is shown within the attached Tree Location Plan (Appendix 3). A detailed inspection of the trees with respect to decay, defects and hazard is not included.
- 2.1.1.7 The site survey was conducted on 28<sup>th</sup> August 2020 by James Stacey M.Arbor.A in accordance with the BS 5837:2012 methodology<sup>1</sup>. The surveyor is an appropriately qualified and experienced arborist, having worked in the arboricultural industry for over 14 years, undertaken tree surveys and completed training in BS 5837:2012 survey methodology.
- 2.1.1.8 Information collected during the survey includes the species, a description of the tree or groups of trees and their position within the landscape and an indicative category grade. The survey was made at ground level using visual assessment of the tree canopy and stem. No removal of vegetation, digging or drilling was undertaken during the survey and parts of the stems of some trees remained partly obscured by vegetation.
- 2.1.1.9 The Tree Location Plan in Appendix 3 shows the approximate positions of the trees included within the survey. For the purpose of this survey, detailed measurements of height, stem diameter, RPA and crown spread have been omitted. If required, a more detailed Tree Constraints Plan can be drawn, following a full BS5837:2012 Arboricultural Survey.
- 2.1.1.10 When considering the layout of the site and the retention of trees, proposals should generally be kept outside of both the RPA and the canopy spreads. However, it may be possible to encroach

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<sup>1</sup> British Standards Institution (BSI) BS 5837:2012. Trees in relation to design, demolition and construction – Recommendations. Published by BSI Standards Limited 2012. ISBN 978 0 58069917 7.

into these with access roads, footpaths and parking areas assuming the existing ground levels can be maintained and the appropriate construction methods are used.

- 2.1.1.11 No liability can be accepted by Quants Environmental in respect of the trees or for events which happen after the time of the survey.

## 3 Results

- 3.1.1.1 The survey results are shown in Appendix 1 (Tree Survey Results – Table 1) and Appendix 2 (Tree Location Plan). The trees included within this preliminary survey comprise of 19 individual trees, 97 tree groups and 1 woodland.
- 3 individual trees were classified as Category A.
  - 23 tree groups were classified as Category A.
  - 1 woodland was classified as Category A.
  - 8 individual trees were classified as Category B.
  - 40 tree group was classified as Category B.
  - 8 individual trees were classified as Category C.
  - 32 tree groups were classified as Category C.
- 3.1.1.2 The site of Bradley Park Golf Course is approximately 56.4 ha located directly north of Bradley Road, Huddersfield. Trees and hedgerows identified within the survey are located across the entire site. The application site is shown in Figure 1.
- 3.1.1.3 Species identified in the survey comprise mostly of ash *Fraxinus excelsior*, willow *Salix sp.*, cherry *Prunus sp.*, oak *Quercus sp.*, birch *Betula pendula*, Norway maple *Acer platanoides*, horse chestnut *Aesculus hippocastanum*, sycamore *Acer pseudoplatanus*, hawthorn *Crataegus monogyna*, blackthorn *Prunus spinosa*, hazel *Corylus avellana*, alder *Alnus sp.*, poplar *Populus sp.*, lime *Tilia sp* scots pine *Pinus sylvestris* and whitebeam *Sorbus sp.*
- 3.1.1.4 The site is located approximately 2.75 miles north east of Huddersfield and is directly north of Bradley Road. To the north of the site is Bradley Wood, with the M62 beyond. To the east are fields, woodland and a combination of residential and industrial buildings. The River Calder is approximately 435m east of the site. To the south, beyond Bradley Road are residential properties of Bradley and a large area of woodland. Shepherds Thorn Lane is along the western boundary, with the open fields of Bradley Villa Farm beyond.
- 3.1.1.5 Canopy cover in the surrounding area is considered to be relatively good. Areas of priority habitat for deciduous woodland are identified within the site. Trees within W1, G34, G61, G69, G72 and G73 are subject to this designation. There are no ancient woodlands identified within the site, however, there are two ancient replanted woodlands within the neighbouring landscape, with Bradley Wood to the north, beyond the M62 motorway and Screamer Wood to the south of Bradley Road.
- 3.1.1.6 A TPO check for the site was carried out via Kirklees Council on 27<sup>th</sup> July 2020. There are no TPO designations within the site and the site does not fall within a Conservation Area. There are no records of ancient or veteran trees within the site, however, following the survey a number of trees were identified as having potential to become future veteran and ancient trees due to their growth form, condition and position within the site.
- 3.1.1.7 Tree cover across the site is generally of similar composition with dense shelterbelt plantations of mixed species planted throughout all areas. These groups separate the existing fairways as part of the golf course landscaping. Larger woodland groups are located around the periphery of the site with a small number of larger groups situated within the golf course. These are likely to be tree groups that existed prior to construction of the golf course and have been incorporated in the landscape plan for the site.

- 3.1.1.8 W1 is a large area of woodland along the northern boundary to the site. This is a continuation of canopy to the ancient replanted woodland of Bradley Wood south of the M62 motorway. This is a dense area of mature canopy and has high environmental importance with the landscape and is assessed as Category A.
- 3.1.1.9 Larger woodland groups around the periphery of the site including G9, G10, G16, G28, G30, G61, G69, G72, G73, G74 and G76 are all dense woodland groups and due to the location along site boundaries will have a significant impact upon the surrounding landscape, providing mature canopy to external site views. These groups will also provide screening to the site from internal areas. All are high value in terms of canopy coverage, environmental and landscape importance and are assessed to be Category A.
- 3.1.1.10 Larger groups located within the site including G17, G18, G32, G33, G34, G36, G54 and G85 are all areas of dense mature canopy. Although they are located within the site and will have limited impact upon the surrounding wider landscape, the benefits these groups will provide future developments is considered to be of high value. Retention of these groups within a development will provide woodland canopy within an urban environment and have potential to become community woodlands, bringing communities together. All are assessed as being Category A.
- 3.1.1.11 Smaller groups such as G66 and G68 consist of large mature trees which will provide future veteran and ancient trees and have grown in a way which will provide focal points within any future development. Both groups are assessed as Category A.
- 3.1.1.12 Three individual trees, T7, T12 and T15 are large open grown oak *Quercus robur* and are assessed as Category A due to their large open crowns. All have potential to become future veteran and ancient trees and retention within any future development will be of high future importance in bridging the gap between the existing ancient tree stock and the next generation of ancients.
- 3.1.1.13 Shelter belt groups such as G5, G8, G19, G20, G24, G31, G37, G38, G39, G40, G52, G56, G58, G60, G63, G64, G70, G77, G78, G80, G82 and G83 are all plantation groups forming part of the golf course landscaping. All are mixed species groups of generally young to early mature trees. These all present a significant landscape feature within the site, but the impact upon the overall landscape is limited due to restricted views from external areas. All trees within these groups generally exhibit good health and have a good contributable life span. The younger age and smaller size lead to a reduced overall landscape impact and therefore these groups are assessed as Category B.
- 3.1.1.14 Smaller groups such as G12, G13, G35, G48, G50, G55, G67, G71, G79 and G81 present moderate value small treescapes within the site and where retained will develop into higher value future focal points as part of any development of the site. These groups are considered to be Category B.
- 3.1.1.15 Individual trees such as T2, T3, T5, T6, T10, T11, T16 and T19 are a mixture of young/small trees which currently present moderate value to the site but will develop into higher value trees as they grow and increase open grown canopy within the site. Other trees such as T3 are mature trees which currently present a significant feature within the site but due to condition or the higher risk of disease have a reduced contributable life span. All are assessed as Category B.
- 3.1.1.16 Tree groups including G15, G29 and G75 are located along the boundaries to the site, though are considerably smaller than adjacent Category A groups. At present trees within these groups present a moderate value to the site, however as these groups develop their value will increase. At present these groups are assessed as Category B.
- 3.1.1.17 Remaining trees and groups across the site present a low impact due to lower quality, life span and smaller size. The remaining trees are assessed as Category C.

## 4 Conclusions and Recommendations

- 4.1.1.1 During the preliminary survey 19 individual trees, 97 tree groups and 1 woodland was surveyed (refer to Appendices 1 and 2).
- 4.1.1.2 Trees are located throughout the site and it is anticipated that significant tree removal will be required to facilitate any future residential development of the site.
- 4.1.1.3 Generally trees that are on site are early mature shelter belt plantations which provide continuous areas of mature canopy. The general age of the trees presents the existing site with significant future canopy longevity. There are also a number of older woodland groups located centrally within the site which are considered to be of high importance within the local and wider landscape.
- 4.1.1.4 Generally Category A trees and tree groups are located around the periphery of the site forming the boundary vegetation and woodland. There are a small number of larger groups centrally within the site which present high value areas of mature canopy along with high biodiversity value in the woodland habitats they present to the site. It is recommended that all Category A trees and tree groups are retained and incorporated into any proposed future residential development.
- 4.1.1.5 The majority of shelter belt plantations within the site are generally young trees which have not yet reached their full height, restricting their impact upon the surrounding wider landscape. These trees and groups do however provide significant areas of future continuous mature canopy. The removal of Category B groups would result in the loss of significant areas of future mature canopy. It is therefore recommended that where possible Category B tree groups are retained and incorporated into the designs of any future proposed residential development. Where removal is necessary to achieve appropriate housing allocation needs, the smaller groups should be prioritised for removal to reduce the overall area of mature canopy that is lost. Retaining the larger groups will maintain the existing avenues and corridors of canopy which provide varied habitat needs.
- 4.1.1.6 It is not anticipated that the loss of Category C trees and tree groups will have a significant impact upon the landscape and environmental value of the site. It is therefore recommended that any required tree removal is prioritised through the Category C trees to minimise the loss of higher value canopy.
- 4.1.1.7 The information contained within this report is based on a preliminary walk over survey only and does not provide measurement data for trees. It is recommended that as part of any future planning application a detailed tree survey in full accordance with BS5837:2012 is carried out to gather all tree data and provide Root Protection Area (RPA) data. With a topographical survey of the site, or parts of the site, a Tree Constraints Plan (TCP) can be produced, highlighting where tree protection areas would be required or where development would significantly affect trees. The TCP and survey report will aid the production of suitable proposed designs for residential development.
- 4.1.1.8 When a proposed site plan is available, an Arboricultural Impact Assessment should be completed to determine the impact of the development on the trees on site. The information presented in this report should be used to inform the layout of the development. Further survey work may subsequently be required in order to inform the development and to guide mitigation options.

- 4.1.1.9 An Arboricultural Tree Protection Plan and Working Method Statement should be produced prior to works commencing on site. This should be informed by the Arboricultural Impact Assessment based on the final site layout. The Arboricultural Tree Protection Plan and Working Method Statement should cover detailed methods for construction and operation within any of the RPAs in order to minimise the potential for adverse effects on these trees, e.g. digging using hand tools and supervision by a suitably qualified arboriculturist, in accordance with BS5837:2012. During supervised work within the RPAs and canopies, if trees are considered to become unsafe (e.g. due to unavoidable severance of significant roots), such trees may need to be felled by a qualified tree surgeon. Any such loss of trees should be mitigated where practicable with replacement tree planting on site, to be agreed with the Local Planning Authority. The Arboricultural Tree Protection Plan and Working Method Statement should cover compensation planting as required.
- 4.1.1.10 Detailed methods for construction and operation should be developed in order to minimise the potential for adverse effects on trees.
- 4.1.1.11 Where appropriate, all the trees to be retained should be protected with a tree protection fence in line with BS5837:2012 current recommendations.
- 4.1.1.12 The loss of any trees should be mitigated where practicable with suitable replacement tree planting on site, to be agreed with the Local Planning Authority. Any new landscaping should be maintained to promote longevity.

## Appendix 1. Tree Survey Results – Table 1

| Tree/ Group Ref No. | Species                                                       | Comments                                                                                                                                                  | Cat Grade |
|---------------------|---------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| G1                  | Willow, birch, ash                                            | Line of trees along parking area, relatively young, low visual impact                                                                                     | C         |
| G2                  | Sycamore                                                      | Young trees at edge of parking, low visual impact                                                                                                         | C         |
| G3                  | Poplar                                                        | Trees along parking area, small for species still, low impact                                                                                             | C         |
| G4                  | Oak, ash, larch, poplar, sycamore, hawthorn                   | Line of trees between parking and access road, low height, low canopy area, feature for site only. Low impact on wider landscape                          | C         |
| G5                  | Spruce, hawthorn, ash, cherry,                                | Mixed woodland plantation group, relatively young. Unmanaged dense vegetation, mixed coniferous and broadleaf                                             | B         |
| G6                  | Cypress                                                       | Mixed ornamental cypress shrub bed. Small trees, low value.                                                                                               | C         |
| T1                  | Atlas cedar                                                   | Young tree in planting bed                                                                                                                                | C         |
| T2                  | Deodorant cedar                                               | 2x semi mature trees with good form, stand alone, will provide good future open grown canopy                                                              | B         |
| G7                  | Pine, cedar, birch                                            | Shrub bed planting with young trees, low overall value                                                                                                    | C         |
| T3                  | Ash                                                           | Large mature stand alone ash, good health at present, consider potential for ash dieback and reduced contribution                                         | B         |
| G8                  | Ash, poplar, birch                                            | Plantation group of mixed species. Landscape feature within the site. Good future public canopy cover area.                                               | B         |
| G9                  | Poplar, birch, ash, chestnut, field maple, Scots pine, hazel, | Woodland group with mixed species, predominantly native. Good structure and with management can become good community woodland. High value woodland asset | A         |
| G10                 | Poplar, ash, maple, chestnut, oak,                            | Area of dense woodland with large mature trees, located on boundary with private properties, significant visibility from external areas. High value       | A         |
| G11                 | Cockspur thorn                                                | 2x small trees near edge of woodland. Low impact and value                                                                                                | C         |
| G12                 | Maple, beech, birch                                           | Group of 3 early mature trees, all stand alone and will provide good open grown canopies as they mature. Good future canopy.                              | B         |
| G13                 | Red oak                                                       | 2x stand alone red oak, will provide high value future open grown canopy. Good value                                                                      | B         |
| G14                 | Sycamore                                                      | Group of 3 semi mature sycamore with limited visibility, small trees still. Moderate to low value                                                         | C         |

| Tree/ Group Ref No. | Species                                       | Comments                                                                                                                                                                            | Cat Grade |
|---------------------|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| G15                 | Chestnut, ash, oak, maple, cherry, Scots pine | Boundary screen vegetation, young at present with limited visibility but will have good contributable lifespan and will increase screening potential and visibility as canopy grows | B         |
| G16                 | Maple, ash, larch,                            | Small woodland group and area of mature canopy, good landscape feature on boundary to the site. High value                                                                          | A         |
| T4                  | Pine                                          | Stand alone 5 needle pine, not significantly visible within the site. Low impact                                                                                                    | C         |
| G17                 | Sycamore, ash, oak, pine                      | Dense area of mature mixed species canopy, good visual feature within the site, will provide high value woodland within an urban environment.                                       | A         |
| G18                 | Ash, beech, oak, maple                        | Continuation of continuous woodland and mature canopy from G17, high future value                                                                                                   | A         |
| G19                 | Chestnut, birch, whitebeam                    | Small group of early mature trees well spaced to produce open grown crown form in the most part. Provides a connecting canopy link between G18 and G20.                             | B         |
| G20                 | Oak, whitebeam, maple, birch,                 | Narrow shelter belt plantation, moderate screening value within the site.                                                                                                           | B         |
| G21                 | Cypress                                       | Tall coniferous screen                                                                                                                                                              | C         |
| G22                 | Sycamore, willow                              | Small trees within shrub bed areas, low value                                                                                                                                       | C         |
| G23                 | Birch, willow                                 | Small group of short lived species, low impact upon site landscape.                                                                                                                 | C         |
| G24                 | Oak, ash, beech                               | Small narrow screening plantation, feature of golf course between fairways. Young canopy with good future contribution.                                                             | B         |
| G25                 | Sycamore, cedar, alder, sorbus                | Young and small trees, low visual impact within the site                                                                                                                            | C         |
| G26                 | Maple, beech                                  | Small group of semi mature trees, low overall impact upon landscape                                                                                                                 | C         |
| T5                  | Ash                                           | Large mature ash with open grown crown. Good health and form at present, ash dieback likely to reduce contribution                                                                  | B         |
| G27                 | Sycamore                                      | Group of semi mature sycamore with limited visibility, small trees still. Moderate to low value                                                                                     | C         |
| G28                 | Beech, cherry, birch, ash, oak,               | Woodland plantation group of mixed deciduous species. Dense area of mature canopy, high value                                                                                       | A         |
| G29                 | Poplar, birch, pine                           | Group of predominantly tall poplars, provide visual feature along boundary to the site. Good area of canopy with moderate contribution value                                        | B         |
| G30                 | Sycamore                                      | Group of mature sycamore on boundary, provides screening for site and neighbouring property. Large area of canopy.                                                                  | A         |

| Tree/ Group Ref No. | Species                                              | Comments                                                                                                                                                          | Cat Grade |
|---------------------|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| G31                 | Oak, ash, beech                                      | Small narrow screening plantation, feature of golf course between fairways. Young canopy with good future contribution.                                           | B         |
| T6                  | Copper beech                                         | Young beech tree with open grown form developing. High future contribution for open grown long lived canopy                                                       | B         |
| W1                  | Mixed deciduous                                      | Large continuous woodland, dense canopy. Very high value environmental feature. Significant area of mature canopy, very long contributable life span.             | A         |
| G32                 | Beech, chestnut, pine, oak                           | Young woodland plantation, with developing structure, dense area of canopy with good longevity, will provide high value woodland within an urban environment.     | A         |
| G33                 | Cherry, sycamore, Sorbus,                            | Established woodland group with structure, although small, provides continual canopy coverage with adjacent groups.                                               | A         |
| G34                 | Oak, pine, birch, ash, hawthorn, poplar, cherry      | Established dense woodland with good structure. Good woodland habitat and contributes to larger area of mature canopy. High value.                                | A         |
| G35                 | Cherry                                               | Group of tall cherry on edge of woodland, Proximity of stems gives tall growth and narrow crowns. Moderate amenity value within the site.                         | B         |
| T7                  | Oak                                                  | Large mature open grown tree on edge of woodland. Future veteran and ancient tree. High value                                                                     | A         |
| G36                 | Oak, alder sycamore, pine, ash, cherry, beech, birch | Very long avenue of continuous canopy, all in semi - early mature stage with high longevity of canopy. Continuous wildlife corridor                               | A         |
| G37                 | Oak, alder sycamore, pine, ash, cherry, beech, birch | Avenue of continuous canopy, all in semi - early mature stage with high longevity of canopy. Continuous wildlife corridor                                         | B         |
| T8                  | Crack willow                                         | Stand alone tree at edge if woodland group, species prone to fracture, low overall impact and longevity.                                                          | C         |
| G38                 | Oak, alder sycamore, pine, ash, cherry, beech, birch | Avenue of continuous canopy, all in semi - early mature stage with high longevity of canopy. Continuous wildlife corridor                                         | B         |
| G39                 | Ash, oak, pine, willow, birch, sycamore, beech       | Mixed shelter belt plantation. Early mature trees which have good feature within existing site, Moderate impact on wider landscape, dense area of maturing canopy | B         |
| G40                 | Oak, alder sycamore, pine, ash, cherry, beech, birch | As per G36 but shorter section, young trees which join to area of larger older trees.                                                                             | B         |
| G41                 | Grey poplar                                          | Group of 3 large mature poplar, large wide canopies. All with significant lean away from driving range. Potential for future failure                              | C         |
| G42                 | Cypress                                              | Tall cypress hedge line at end of driving range.                                                                                                                  | C         |

| Tree/ Group Ref No. | Species                                              | Comments                                                                                                                        | Cat Grade |
|---------------------|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-----------|
| G43                 | Cypress                                              | Tall cypress hedge along driving range, obscured from view by G44                                                               | C         |
| G44                 | Ash, cherry, hawthorn, pine                          | Line of mature broadleaf hiding dense conifer hedge from adjacent private properties. Good visual amenity to external land use. | B         |
| T9                  | Sycamore                                             | Young stand alone sycamore, low overall value.                                                                                  | C         |
| G45                 | Oak, poplar                                          | Large mature trees on boundary between site and residential area. High landscape feature                                        | A         |
| G46                 | Hawthorn                                             | Unmanaged hedge section.                                                                                                        | C         |
| T10                 | Oak                                                  | Young stand alone oak, potential future veteran tree                                                                            | B         |
| G47                 | Cypress                                              | Tall cypress hedge along driving range.                                                                                         | C         |
| G48                 | Norway maple, sycamore                               | Group of mature trees at end of long hedge line, some areas of damage provide moderate impact upon site.                        | B         |
| G49                 | Cypress                                              | Screening hedgerow, tall single line of trees. Low value                                                                        | C         |
| G50                 | Norway maple, sycamore                               | Group of mature trees at end of long hedge line, some areas of damage provide moderate impact upon site.                        | B         |
| G51                 | Cypress                                              | Screening hedgerow, tall single line of trees. Low value                                                                        | C         |
| G52                 | Balsam spire poplar                                  | Line of tall poplar screening trees, moderate value feature within golf course, will be moderately visible from external areas. | B         |
| G53                 | Alder, willow, oak                                   | 3x stand alone trees, all small and young, low impact trees due to small height.                                                | C         |
| G54                 | Pine, birch, lime, ash, Sorbus, sweet chestnut,      | Area of dense mature canopy, provides screening value within the site and will provide good canopy area within any development. | A         |
| G55                 | Alder, sorbus, apple                                 | Stand alone trees located in edge of group. All mature .                                                                        | B         |
| G56                 | Sycamore, poplar, lime, chestnut, oak, alder, cherry | Small plantation of early mature trees between fairways.                                                                        | B         |
| G57                 | Alder, hawthorn, pine, lime, maple                   | Group of trees which are regularly reduced due to over head power line (OHPL), small height gives limited value to landscape    | C         |
| G58                 | Beech, birch, sweet chestnut, oak,                   | Taller group of trees out of OHPL line. Small but dense group of semi mature canopy                                             | B         |

| Tree/ Group Ref No. | Species                                 | Comments                                                                                                                                                                                                                 | Cat Grade |
|---------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| G59                 | Hawthorn                                | 2x small hawthorn.                                                                                                                                                                                                       | C         |
| G60                 | Oak, hazel, Sorbus, hornbeam, pine, ash | Dense group of young trees, all regularly reduced due to OHPL, limiting overall landscape impact, dense area of trees.                                                                                                   | B/C       |
| G61                 | Mixed deciduous                         | Dense area of maturing woodland with good structure, high value canopy area.                                                                                                                                             | A         |
| G62                 | Ash                                     | Group of tall ash on boundary. Consider future contribution due to disease.                                                                                                                                              | B/C       |
| G63                 | Oak, birch, sycamore, cherry, poplar    | Narrow avenue of juvenile trees along boundary area. Good longevity for future canopy                                                                                                                                    | B         |
| G64                 | Oak, cherry ,birch                      | Screening plantation of semi mature trees, small in height limiting impact upon landscape                                                                                                                                | B         |
| T11                 | Horse chestnut                          | Juvenile open grown tree will provide high value future canopy and potential focal point.                                                                                                                                | B         |
| G65                 | Chestnut, sorbus                        | Small stand alone trees with low impact.                                                                                                                                                                                 | C         |
| T12                 | Oak                                     | Large stand alone tree with wide crown, future veteran/ancient tree                                                                                                                                                      | A         |
| G66                 | Oak                                     | Large oaks with wide crowns, will provide future veteran/ancient tree stock                                                                                                                                              | A         |
| G67                 | Norway maple                            | Area of early mature trees small area of mature canopy, good open space canopy provision within a development.                                                                                                           | B         |
| G68                 | Oak                                     | Circle of mature oak, very high value landscape feature                                                                                                                                                                  | A         |
| G69                 | Ash, oak, birch                         | Dense woodland group located on boundary, high value woodland feature for neighbouring residential land                                                                                                                  | A         |
| G70                 | Birch, rowan, oak, lime,                | Small plantation of generally young trees, dominated by faster growing birch. Plantation part of course layout, moderate impact                                                                                          | B         |
| G71                 | Oak                                     | Group of semi mature oak adjacent to golf tee. All multi stemmed. Moderate value                                                                                                                                         | B         |
| G72                 | Poplar, ash, maple,                     | Tree group on corner boundary tall tree growth which will be significantly visible from external areas, good screening value.                                                                                            | A         |
| G73                 | Oak, birch, alder pine, lime, sycamore, | Boundary shelter belt of relatively young trees with low height along perimeter. Will provide good future canopy cover and future significant landscape importance. Moderate impact at present but high future potential | A/B       |
| G74                 | Mixed deciduous                         | Dense woodland group on boundary, large area of mature canopy high value environmental feature                                                                                                                           | A         |

| Tree/ Group Ref No. | Species                                      | Comments                                                                                                                                                                                 | Cat Grade |
|---------------------|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| T13                 | Hawthorn                                     | Small stand alone tree, low impact                                                                                                                                                       | C         |
| G75                 | Sycamore willow oak hawthorn                 | Boundary vegetation, mixed canopy heights, not a plantation, mostly self sown boundary vegetation                                                                                        | B/C       |
| G76                 | Mixed deciduous                              | Natural woodland edge vegetation along boundary, not from plantation, tall mature canopy, high value landscape and environmental feature.                                                | A         |
| G77                 | Mixed                                        | Mixed trees with coniferous species dominating, tall growth and significant landscape feature within the site, Moderate impact on external landscape                                     | B         |
| G78                 | Sorbus, maple, cherry, birch                 | Very dense plantation in places with high stem density leading leading to tall whippy growth. requires management going forward, parts of woodland in better condition.                  | B/C       |
| T14                 | Cherry                                       | Stand alone small tree. Low height gives limited impact upon surrounding landscape                                                                                                       | C         |
| G79                 | Sycamore                                     | Group of 3 early mature trees, good form, limited impact upon landscape, but can provide mature canopy in future developments                                                            | B         |
| G80                 | Oak, birch                                   | Narrow line of trees along footpath. Oak are young and have good life span contribution, limited overall impact upon landscape, moderate value.                                          | B         |
| G81                 | Cherry, sorbus                               | Dense area of tall cherry, with Sorbus understorey. Small group with moderate value.                                                                                                     | B         |
| G82                 | Alder oak, beech, maple larch, birch, cherry | Mixed species plantation, between fairways, young canopy with moderate landscape impact.                                                                                                 | B         |
| G83                 | as above                                     | As above, establishing a woodland structure                                                                                                                                              | A/B       |
| T15                 | Oak                                          | Large mature open grown oak, high value for open crown growth and future veteran/ancient tree potential                                                                                  | A         |
| G84                 | Hawthorn                                     | 3x trees close to T15. Low overall impact                                                                                                                                                | C         |
| G85                 | Birch, hazel, hawthorn, sycamore,            | Small section of mature trees forming light woodland canopy with small glades. Good feature for mature canopy within an urban environment.                                               | A/B       |
| T16                 | Oak                                          | Mature tree in centre of grazing fields, large open grown crown, damage and decay in stem, would provide valuable habitat feature as veteran tree where retention can be safely achieved | B         |
| G86                 | Hawthorn                                     | Unmanaged hedgerow with significant gaps in grazing land.                                                                                                                                | C         |
| G87                 | Pine, alder, elder                           | Small self sown trees along fence line                                                                                                                                                   | C         |
| G88                 | Mixed coniferous                             | Mixed conifer plantation, mostly non native species. Moderate value within site.                                                                                                         | B/C       |

| Tree/ Group Ref No. | Species                         | Comments                                                                                                                                                                | Cat Grade |
|---------------------|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| T17                 | Cherry                          | Stand alone tree between coniferous plantations, limited visibility and impact.                                                                                         | C         |
| G89                 | Mixed deciduous and coniferous  | Mixed species plantation with predominantly coniferous species. Dense canopy adjacent boundary with residential properties, screen to site. Moderate to high value.     | B         |
| G90                 | Ash, spruce, oak                | Line of trees along boundary fence to grazing land, mostly semi mature with high quantity of ash, reduced contribution and value due to likelihood of ash failure       | B/C       |
| G91                 | Hawthorn                        | 2x small hawthorn on fence line, self sown                                                                                                                              | C         |
| T18                 | Whitebeam                       | Stand alone tree exhibiting poor condition                                                                                                                              | C/U       |
| G92                 | Willow, ash, hawthorn, sycamore | Boundary vegetation, mostly young self sown and multi stemmed.                                                                                                          | C         |
| G93                 | Cypress                         | Conifer hedge on boundary with residential properties                                                                                                                   | C         |
| G94                 | Oak, hawthorn, willow, beech    | Mixed species vegetation in tree and hedgerow form along entrance road, creates overhead canopy over road                                                               | B         |
| G95                 | Hawthorn, cherry, ash           | Trees within scrub area, self sown and small trees, low quality                                                                                                         | C         |
| G96                 | Sycamore, hawthorn              | Small individual self sown trees, low value/quality                                                                                                                     | C         |
| G97                 | Hawthorn, chestnut, sycamore    | Dense unmanaged vegetation, mostly self sown on land between existing housing estate and grazing land, low quality and value                                            | C         |
| T19                 | Sycamore                        | Mature tree with wide crown, relatively low in height, but crown width gives good canopy area. Self sown tree but in open grown form, moderate value landscape feature. | B         |

## Table 2. Cascade Chart for the Quality Assessment<sup>2</sup>

| Category and definition                                                                                                                                                 | Criteria (including subcategories where appropriate)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                         |                                                                                                                                           | Identification on plan |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| Trees unsuitable for retention                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                         |                                                                                                                                           |                        |
| Category U<br><br>Those in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years. | Trees that have 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).<br><br>Trees that are dead or are showing signs of significant, immediate or irreversible overall decline.<br><br>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.<br><br><i>Note: Category U trees can have existing or potential conservation value which it might be desirable to preserve.</i> |                                                                                                                                                                                                                                                                         |                                                                                                                                           | See Table 2            |
|                                                                                                                                                                         | 1 Mainly arboricultural qualities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2 Mainly landscape qualities                                                                                                                                                                                                                                            | 3 Mainly cultural values, including conservation                                                                                          |                        |
| Trees to be considered for retention                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                         |                                                                                                                                           |                        |
| Category A<br><br>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 or trees or wood pasture). | See Table 2            |
| Category B<br><br>Trees of moderate quality with an estimated remaining life expectancy of at least 20 years                                                            | Trees that might be included in Category A, but were 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 groups or woodlands, such that they attract a higher collective rating than they might attract 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            |
| Category C<br><br>Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter of <150mm.                 | 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            |

<sup>2</sup> The British Standards Institute 2012, Page 9 – Table 1.

## Appendix 2. Tree Location Plan

Key

- Category A Trees
- Category B Trees
- Category C Trees

