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Anglian Water Services Limited

## Appendix 8.19: Waterbeach Pipeline Arboricultural Impact Assessment

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# Arboricultural Impact Assessment \& Method Statement 

Waterbeach CWWTPR - WBRM

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### 1.0 Executive Summary

### 1.1 Rationale

Greenwillows Associates Limited (GWA) was commissioned to conduct an arboricultural appraisal of a proposed route for a new wastewater pipeline and wastewater treatment plant in the Waterbeach area of Cambridge. The area surveyed comprises an approximate 8.0 km route and is referred to as 'the site' for the purposes of this report.

Greenwillows Associates carried out the initial survey between $25^{\text {th }}-28^{\text {th }}$ October 2021 and produced an Arboricultural Appraisal Note (AAN) to the relevant parties to highlight potential conflicts between the proposed works and the existing vegetation. The client has provided a drawing indicating where the new pipeline will be installed both by open cut trench and directional drilling. The proposed construction method has been based on the information received from a number of surveys and has been designed to ensure minimal impact on the green environment where possible. A 30 m easement area is required during the construction phase and all surveys have been carried out taking this into account; some surveys e.g., Ecological Appraisal were carried out in an extended area.

This report provides guidance on the protection measure necessary to ensure the long-term health of the retained trees/vegetation including where pruning is required to clear the work area.

### 1.2 Essential Evidence, Conclusions and Recommendations

### 1.2.1 General Route Description

The proposed Waterbeach scheme consists of the installation of a new section of rising main circa 8 km in length.

From Waterbeach New Town the new rising main will route east/southeast crossing under the railway but avoiding the new Waterbeach railway station platform before continuing southwards through fields. It will cross to the east side of the River Cam after about 1.9 km and continue southward to the east of the village of Horningsea before crossing under the A14. It will then continue southward for approximately another 400 m before routing west and connecting into the existing Cambridge (Milton) Wastewater Treatment Plant (WWTP), crossing under the Horningsea Road, the River Cam, Fen Road and the railway on route (refer to Appendix One for an overview of the route).

### 1.2.2 Conclusions

With reference to drawing TPP_WATERBEACH_4_2 a number of trees are shown to be impacted with losses T055 - T058 \& T060. In addition, sections of hedgerow (T054, T121, T139 \& T173 shown on drawings TPP_WATERBEACH_3_2, TPP_WATERBEACH_10_2, TPP_WATERBEACH_11_2 \& TPP_WATERBEACH_14_2) require removal to facilitate installation of the new mains supply. There may be further areas where localised vegetation clearance may be required mainly for access and compounds, but this is likely to be minor and involving low value specimens/scrub. The majority of the areas where there are potential impacts on the tree population will utilise directional drilling at depth to eliminate the
potential for root damage. It should be noted that the method of installation can be micromanaged to a degree to help retain trees, however, in some cases tree removals may be unavoidable due to additional constraints, and replacement trees/hedges will be planted following completion of the project.

Some limited crown pruning will be required to ensure clearance over plant accessing the site and where in close proximity to proposed compounds and a section of a tree belt (T120 on drawing TPP_WATERBEACH_9_2) will require cutting back to clear the access. It is likely that some root pruning may be required prior to the installation to prevent excessive damage. The Preliminary Ecological Appraisal has categorised four trees as notable or with veteran characteristics (ref: Waterbeach Pipeline) - Preliminary Ecological Appraisal (100104106-0004-E), referring to the tree schedule, one of the trees is T105 (drawing TPP_WATERBEACH_7_2) categorised as B2/3 (landscape, cultural and conservation values), the remaining three trees are outside the area designated for the tree survey but fell within the scope of the Ecological Appraisal. Whilst the route passes close to tree T105, there is a drainage ditch immediately on the west side and the adjacent fields are used for arable farming with both factors likely to lead to a degree of root restriction.

Initial comments from the Planning Inspectorate, referring to this report and the Preliminary Ecological Appraisal (PEA) stated that the Root Protection Area (RPA) for T105 should be calculated as per the Woodland Trust recommendations for the protection of the RPA.

The recommendation is that an RPA is based on 15 times the trunk diameter or 5 m beyond the crown extent, whichever is the greatest. Therefore, the protective fence for tree T105 will be installed at a minimum of 16 m from the trunk (based on 5 m beyond the crown radius) as shown on drawing TPP_WATERBEACH_7_2 Rev C and in the details in Appendix 2.

### 1.2.3 Recommendations

Recommendations in Section 8 (Method Statement) should be followed to ensure there is minimal impact on the trees.

### 2.0 Introduction and Terms of Reference

2.1 GWA was instructed to provide advice on the potential impact to trees of a new wastewater main to be installed by a combination of open-cut trench and directional-drilling (trenchless) techniques. Additionally, to recommend protection/mitigation measures to ensure the long-term health of the retained trees/vegetation.
2.2 The tree survey and recommendations are made within the widely accepted framework of British Standard BS5837:2012 'Trees in relation to design, demolition and construction Recommendations'. Advice is provided on potential impact and how that impact might be avoided or mitigated. The advice takes the form of an arboricultural impact assessment, tree survey and tree constraints plans.
2.3 The tree survey was undertaken between 25-28 October 2021.
2.4 The proposed route has been provided to Graham Causey in various source materials:

- DWG File: Waterbeach OS with National Tree Map V1 Point Data overlain
- PDF File: CWWTPR - WBRM Arboricultural Survey Data 1 to 8 Savills
- DWG File: Geophysics Survey Scope 1 to 5 (drawing number 1185-100001WATBSC-SEW-LAY-D-0231)
- DWG file: 16619-1B 2D
- DWG File: Proposed Twin 500 Rising sewer mains
- DWG File: Red Line Boundary
- DWG File: SEW-11851-XR-Gtech Mapping
- DWG File: SEW-11851-WATBSC-ZZZ-PLN-Z-0201 plans 1-5


### 3.0 Site Location \& Construction Requirements

3.1 The site is situated between Waterbeach New Town and the Cambridge (Milton) WWTP Cowley Road (see Appendix One).
3.2 The new rising main is expected to comprise twin 500 mm pipes to be laid below ground with the possible exception of the section within the Cambridge WWTP which may be laid above ground due to the number of existing services running through the site and in view of protected species located within the site.
3.3 The pipeline will be located at an average depth of 2-5 metres below ground level except where it passes beneath the River Cam, larger drainage ditches, the A14 and the railway, where it will be a maximum of 20 metres deep. The exact depth will be determined through further, more detailed design, including confirmation of the construction technique and agreement with the owner of the feature being crossed under as is legally required.
3.4 In order to lay the new pipeline a temporary 30-metre-wide working corridor is proposed. The precise alignment of the main within the corridor will be determined by several factors including micro-siting to accommodate the environmental constraints to in order to reduce its impact, discussion with landowners and technical considerations. Further assessment will also be needed to determine the exact location crossings points under the River Cam, the railway line and the A 14.
3.5 The pipeline will be installed via a combination of open cut and trenchless techniques. Trenchless crossing techniques are proposed for the River Cam, A14 and railway. These will be either horizontal direction drilling (HDD) or pipe jack micro-tunnelling.
3.6 Where HDD is used a series of drill pits will be required. The final location of these will be dependent upon the length of the drill shot being undertaken. The associated access pits are expected to be circa 10 metres by 5 metres. They will be backfilled once the drill shot is complete.
3.7 Where pipe jack micro-tunnelling is used then a larger access pit will be required, circa 15 metres by 15 metres. At this stage it is anticipated that this technique will only be used where the pipeline crosses under the railway.
3.8 The construction technique for the remaining route is not yet determined but has been assumed to be open cut as this would represent a 'worst case' scenario in terms of potential impact.
3.9 A number of laydown areas will be required along the route of the new rising main. These will be located approximately every 1 km and will be used to store sections of the pipe whilst the construction takes place. Each laydown area is expected to be a maximum of 20 metres by 80 metres. As a reasonable worst-case scenario, it has been assumed that each will be
topsoil stripped and covered with hardstanding. The hardstanding will be removed, and the topsoil reinstated when the use of the laydown area ceases.
3.10 A main compound area will be required. The primary compound will be located at the Waterbeach end of the rising main. This will be a maximum of 100 metres by 100 metres. It will be topsoil stripped and covered with hardstanding. The hardstanding will be removed, and the topsoil reinstated when the use of use of the compound area ceases.
3.11 Satellite welfare units will also be used. These would be mobile units (eco unit or similar) which will move with the construction gang along the pipeline and would be located within the 30-metre working corridor.

### 4.0 Legislation and Policy

4.1 The content of this report is valid for one year from the date shown on the title page.
4.2 The route / line of the proposed pipeline is plotted on the topographical survey which was used to undertake the tree survey.
4.3 A number of the trees were already plotted using the National Tree Map V1 Point Data. The survey used GPS capable data collection combined with a Google aerial overlay to position additional trees.

### 4.4 Trees

4.4.1 The tree survey has been undertaken from ground level using non-invasive methods. The presence of obstructions, undergrowth, Ivy, epicormic shoots or other climbing plants on tree trunks and branches obscures any defects that might be present that could otherwise be identified. In the presence of climbing plants etc assumptions are made based upon the general health and appearance of trees, which may differ fundamentally if Ivy etc were not present. For example, a tree that has the overall appearance of good health and vigour may have a serious structural defect hidden by climbing plants. As dynamic organisms subject to weather and other environmental factors, the condition and safety of trees can change very rapidly (refer to Appendix 2 for details on trees/hedges/groups).

### 4.5 Tree Legislation

4.5.1 Legal status of trees (Tree Preservation Orders and Conservation Areas) has been checked using the online mapping facility of South Cambridgeshire District Council. Part of the site is within the Fen Ditton Conservation Area and may include hedgerow T159 (drawing TPP_WATERBEACH_13_2). However, as this section is to be installed by directional drilling there will be no impact on the vegetation. There are no Tree Preservation Orders (TPOs) on the trees inspected during the survey.
4.5.2 The Local Planning Authority (LPA) can make new TPOs at any time without advanced notice. It is common for LPAs to make new TPOs on receipt of details of projects that may harm trees. Penalties for offences relating to TPO trees include, but are not exclusive to, lopping, topping, damaging or destroying trees which can be unintentionally caused by such simple means as damaging the soil structure around the trees during site preparation or building work.
4.5.3 The effect of a Tree Preservation Order (if one should be made) is that a formal application will normally need to be submitted to the LPA (subject to exceptions) for tree works. Such an application may be refused, approved or approved subject to conditions. There is a right of appeal against refusals, conditions or non-determination. In all cases, unauthorised work or wilful damage or destruction etc is a criminal offence, on summary conviction leading to fines of up to $£ 20,000$ per tree and on indictment, to an unlimited fine and / or imprisonment. All trees are a 'material consideration' in the town planning context and extra weight is normally given to those the subject of the above statutory protection. If TPOs are applied, it is imperative that the LPA is consulted with respect to any activities that affect trees whether directly or indirectly.
4.5.4 Because of the nature of the scheme, the proposed works may fall under exceptions to the strict observance of tree protection legislation (under 'Statutory Undertaker' provisions to the Planning Acts). This does not absolve any party of 'duty of care' that applies under inter alia The Occupier's Liability Acts or The Health and Safety at Work Act (as amended). Advice should be sought from a suitably qualified legal expert for further clarification regarding the 'exceptions' status under the Planning Acts if the matter arises.

### 4.6 Wildlife Legislation

4.6.1 Before carrying out tree works; it is necessary to observe laws in respect of protected species and habitats. Various habitats and species of animal in the UK are protected by the following pieces of legislation:

- Wildlife and Countryside Act 1981(as amended)
- Natural Environment and Rural Communities Act 2006 (NERC Act)
- Conservation of Habitats and Species Regulations 2010 (as amended)
- Protection of Badgers Act 1992
- The Hedgerows Regulations 1997
- Countryside and Rights of Way Act 2000

All tree work operations must comply with The Wildlife and Countryside Act 1981 as amended by the Countryside and Rights of Way Act 2000, which provide statutory protection to birds, bats and other species, all of which could inhabit trees. Where works may constitute an offence, advice will be required from a suitably qualified person before works are able to proceed. For example, it may be necessary to programme tree work outside of the bird nesting period, typically March through to August inclusive.

### 4.7 Non-disclosure Notice

4.7.1 The content and layout of this report are owned by the author. This report may not be copied or used without the author's agreement for any purpose other than the purpose indicated in this report.

### 4.8 Third Party Disclaimer

4.8.1 The report was prepared by the author on behalf of Greenwillows Associates. The author provides this advice without prejudice and bases his opinions on knowledge, experience, qualifications and published research and cannot be held responsible for the consequences of a difference of opinion held by third parties, for example the Local Planning Authority or Planning Inspector. The author does not accept liability for any loss or damage arising from reliance on the content of this report.

### 4.9 Status

4.9.1 This is not a tree safety report. This report has been prepared in respect of the potential impact upon trees of the installation of a proposed new wastewater main. The report includes recommendations for tree protection which may have implications for design, construction, materials and methods to be employed during implementation. Any such recommendations should be approved by the appropriate responsible parties.

### 5.0 Methodology

5.1 The trees have been assessed in accordance with British Standard BS 5837: 2012 'Trees in relation to design, demolition and construction - Recommendations'. Trees surveyed individually are given sequential numbers from 1 to 179 ; trees/groups/hedges are denoted in the column headed structure in the tree schedule (Appendix 2). At the time of survey, the visibility (weather) was good. The trees are identified on the tree constraints plans.
5.2 The British Standard divides trees into one of four categories (based on the cascade chart for tree quality assessment - Table 1 in the Standard). These are classed as $\mathrm{U}, \mathrm{A}, \mathrm{B}$ or C (Section 4.5 of BS5837). This gives an indication as to the tree's quality. For a tree to qualify under any given category it should fall within the scope of that category's definition (see below). Categories A, B and C cover trees that might be a material consideration in the development process, each with three further sub-categories (1, 2 or 3 ) which are intended to reflect arboricultural, landscape and cultural (including conservation) values. Category U trees are those which would be lost in the short term for reasons usually connected with their physiological or structural condition. In assigning trees to the A, B or C categories, the presence of any serious disease or tree-related hazards are taken into account. If the disease is considered fatal and / or irremediable, or likely to require sanitation for the protection of other trees it may be categorised as $U$, even if they are otherwise of considerable value.
5.2.1 Category ' $U$ '. (Dark Red): Trees for removal are those trees in such a condition that any existing value would be lost within 10 years, and which should in the current context be removed for reasons of sound arboricultural management. Trees within this category are:
i. 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;
ii. Trees that are dead or are showing signs of significant, immediate or irreversible overall decline;
iii. Trees infected with pathogens of significance to the health and or/safety of other trees nearby trees or very low-quality trees suppressing adjacent trees of better quality.
5.2.2 Category ' $A$ '. (Green): are trees whose retention is most desirable and are of high quality and value. These trees are considered to be in such a condition as to be able to make a lasting contribution (at least 40 years) and may comprise:
i. Trees which are particularly good examples of their species especially rare or unusual, or essential components of groups or of formal or semi-formal arboricultural features (e.g., the dominant and/or principal trees within an avenue);
ii. Trees, groups or woodlands of particular visual importance as arboricultural and/or landscape features;
iii. Trees, groups or woodlands of significant conservation, historical, commemorative or other value (e.g., Veteran trees or wood-pasture trees).
5.2.3 Category ' $B$ '. (Blue): are trees whose retention is considered desirable and are of moderate quality. These trees are considered to be in such a condition as to make a significant contribution (at least 20 years) and may comprise:
i. Trees that might be included in category A, but because of their numbers or slightly impaired condition (e.g., presence of remediable defects including unsympathetic past management and minor storm damage), are downgraded in favour of the best individuals; ii. Trees present in numbers such that they form distinct landscape features and attract a higher collective rating than they would as individuals or trees occurring as collectives but situated, so as to make little visual contribution to the wider locality; iii. Trees with material conservation or other cultural value.
5.2.4 Category ' C '. (Grey): are trees that could be retained and are considered to be of low quality. They have a life expectancy of at least 10 years or are young trees with a stem diameter below 150 mm and may comprise:
i. Unremarkable trees of very limited merit or such impaired condition that they do not qualify in higher categories;
ii. 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 screening benefits; iii. Trees with no material conservation or other cultural value.
5.3 Crown spreads have been measured in metres and taken for the four cardinal points where necessary and where access permits. The measurements are always considered in the following sequence: north, east, south and west, and therefore appear as such within the Tree Survey Schedule. Where access is not available dimensions are estimated.
5.4 In the assessment, particular consideration has been given to the following when considering the appropriate BS Category and Sub-Category allocation:
i. the health, vigour and condition of each tree;
ii. the presence of any structural defects in each tree and its remaining contribution in years (i.e., future life expectancy);
iii. the size and form of each tree and its suitability within the context of a proposed development for the land use;
iv. the location of each tree relative to existing site features, e.g., its value as a screen or as a skyline feature.
5.5 Age class is assessed according to the age class categories referred to in BS 5837.

- Young trees
- Early-mature, trees less than $1 / 2$ life expectancy
- Mature trees up to $2 / 3$ life expectancy
- Over-mature, declining or moribund trees of low vigour
- Veteran trees
5.6 Major defects or diseases and relevant observations have been recorded under General Observations within the Tree Schedule. The assessment for structural condition has included inspection of the following defects:
- The presence of fungal fruiting bodies around the base of the tree or on the stem, as they could possibly indicate the presence of possible internal decay.
- Soil cracks and any heaving of the soil around the base indicating possible root plate movement.
- Any abrupt bends in branches and limbs resulting from past pruning, as it may be an indication of internal weakness and decay.
- Tight or weak ' $V$ ' shaped forks and co-dominant stems
- Hazard beam formations and other such biomechanical related defects (as described by Claus Mattheck, Body Language of Trees HMSO Research for Amenity Trees No. 4 1994).
- Cavities as a result of limb losses or past pruning
- Broken branches
- Storm damage
- Canker formations
- Loose bark
- Damage to roots
- Basal, stem or branch / limb cavities
- Die-back in the crown
- Abnormal foliage size and colour
- Any changes to the timing of normal leaf flush and leaf fall patterns
- Other pathological diseases affecting any part of the tree


### 6.0 Results

6.1 There is a likely loss of trees (T055 - T058 and T060) as a result of the installation of the new main by open-cut. Careful selection of the route and narrowing the working width may allow for part retention of this group of trees (T055 - T058 and T060).

In addition, four sections of hedgerow (T054, T121, T139 and T173 shown on drawings TPP_WATERBEACH_3_2, TPP_WATERBEACH_10_2 \& TPP_WATERBEACH_11_2 TPP_WATERBEACH_14_2) are to be cleared to allow access. The proposed route as shown on the drawings, may require the removal of up to 30 m wide sections to provide the necessary access for plant to excavate the trench for installation of the pipes. As the hedgerow sections are narrow in spread, it may be possible to reduce the length of section to be removed to the minimum necessary to allow passage of vehicles during the open cut operations.
6.2 There are sections of the development where there are constraints imposed by the retained vegetation. With reference to drawings TPP_WATERBEACH_4_2, and TPP_WATERBEACH_11_2, the proposed access/work areas will require protective fencing to prevent compaction of the soil within the RPA of trees T063, T065, T143-T144 \& T146). Tree T065 is considered to be of low value and as a worst-case scenario could be removed and replaced if necessary.
6.3 With reference to drawing TPP_WATERBEACH_10_2, the proposed site access is shown adjacent to retained trees (trees T180 to T185 inclusive). This is an existing access with compacted ground, however, the trees are growing within a grass verge, with arable field to the east, and will require protective fencing both to ensure that the ground is not compacted by vehicle movements or by plant striking the crowns.
6.4 Temporary access from Horningsea Road will be required (refer to drawing TPP_WATERBEACH_12_2) and this may impact on vegetation. Ensuring access on the west side of the carriageway is north of tree T154 and its associated Root Protection Area (RPA) should allow rom for the access without impacting on tree T153 (low quality Elder). On the east side of the road south of tree T150 (low quality Elder) is adequate space for access without impacting any vegetation.

### 7.0 Impact Assessment, Conclusions and Recommendations

### 7.1 Tree loss required to implement the scheme

The pipeline installation will result in the removal of T055 - T058 \& T060. Any tree losses will be mitigated by replacement planting following completion of the project.

Where there is a loss of hedgerows (as noted in 6.1 above) the scheme should strive to ensure that the minimal length of hedgerow is removed in each instance. Following completion of the scheme, replanting should be undertaken to ensure there is future hedge continuity.

### 7.2 Consideration of other trees that could be affected

7.2.1 There are few conflicts with the RPAs of trees in the proposed scheme as the route is set clear of the root areas or directional drilling may be possible where there is a potential conflict. Some trees within or adjacent to proposed work/compound areas may be at risk without adequate protection and in some cases tree pruning may be required to ensure crowns are not damaged by the movement of vehicles. There is potential within the 30 m easement zone to micro-manage the installation to avoid impacts on the vegetation.

### 7.3 Works and operations most likely to damage trees on this scheme

- Impact damage by plant and machinery during site preparation and implementation of the scheme.
- Root severance, especially where the trench line passes through RPAs.
- Soil compaction from the movement of machinery


### 7.4 Conclusions

The scheme can be implemented with minimal arboricultural impact by following the advice herein. Any vegetation losses can be mitigated by replanting following completion of the scheme.

### 7.5 Recommendations

Avoiding tree root protection areas (RPA) with open-cut trenches and locating launch and retrieval pits for direct-drilling outside of RPAs will avoid any loss or significant harm to trees. The use of a protective zone and ground protection (where necessary) as noted in section 8 below will ensure there is no long-term damage to the retained trees from the installation of the pipeline.

### 8.0 Method Statement

### 8.1 Tree protection

8.1.1 The extent of the root protection areas will be marked out by rope and post barriers (location as shown on drawings TPP_WATERBEACH_1_2 to TPP_WATERBEACH_15_2). Where access is required and the RPAs extend beyond the protective barrier, ground protection is required to prevent compaction damage to the soil. It is recommended that Table 1 (Appendix Three) is used to correctly place the protection zone to ensure all the RPA is enclosed to allow for any drift of the GPS signal during plotting. All measurements are to be taken from the nearest trunk of the tree/group to the work area. For example, Tree T2 will have fencing placed 11.88 m from the trunk; for ease rounding up to the nearest whole number is advised.
8.1.2 The post-and-rope barriers should be in place before any materials or machinery is brought onto site. Once in place, barriers and ground protection should be considered sacrosanct and should not be altered or removed without prior recommendation by an arboriculturist and approval of the local planning authority. Barriers should be maintained to ensure that they remain rigid and complete. A banksman should be present if manoeuvring plant adjacent to the RPAs of retained trees.
8.1.3 Where works are to take place close to important trees, a higher specification of protective barrier will be installed. In this case, tree T105 will be protected by Heras fencing as shown in Figure 1 installed at 16 m from the trunk. In addition, those trees designated notable in the PEA should be protected by Heras fencing located at 15 m from trunk centre where practicable and ensuring no disruption to farming activities.
8.1.4 Trees T180 - T185 (refer to drawing TPP_WATERBEACH_10_2) have a reduced rooting area available due to the compacted ground within the existing field access. To ensure that there is no damage to the soil structure it is recommended that the higher specification Heras fencing (refer to Figure 1 below).

Figure 1: Tree Protective Fencing


The barrier will comprise 2 m tall, welded mesh panels on rubber or concrete feet, the fence panels should be joined together using a minimum of two anti-tamper couplers, installed so that they can only be removed from inside the fence. The distance between the fence couplers should be at least 1 m and should be uniform throughout the fence. The panels should be supported on the inner side by stabilizer struts, which should normally be attached to a base plate secured with ground pins.

### 8.2 Ground protection

8.2.1 Where it is agreed that vehicular or pedestrian access for construction purposes is necessary within the RPA, ground protection measures will be required to prevent damage to the soil structure within the RPA.
8.2.2 For pedestrian access within the RPA, the installation of ground protection in the form of a single thickness of scaffold boards over a compressible layer laid onto a geotextile membrane, or supported by scaffold, is likely to be acceptable.
8.2.3 For wheeled or tracked vehicles, access within the RPA the ground protection should be designed by an engineer to accommodate the likely loading and may involve the use of proprietary systems or reinforced concrete slabs. A system such as Eve Trakway or similar selected for the predicted loading is a flexible system that can be adjusted quickly to take into account any unexpected requirement to provide access over the RPAs. With reference to drawing TPP_WATERBEACH_4_2, the access is shown to make a significant encroachment into the RPA of tree T063. Ideally, the access should be routed around the RPA of the tree but if this is not possible and access is required on a longer-term basis, then the use of a no-dig road using a cellular confinement system may be required. Refer to Figure 2 below for a general overview of a typical installation with porous tarmac (illustration courtesy of

Geosynthetics Ltd showing a gravel surface). The depth of CellWeb will be dependent on the expected loads and should be based on the manufacturer's recommendation.

Figure 2: Cellular Confinement System


### 8.3 Tree Pruning

8.3.1 All tree works should be undertaken prior to any site works commencing. Motorised vehicles will be restricted to areas of existing compacted/hard surfaces, or where ground protection is in place, and should not be taken onto un-surfaced areas within the root protection areas (as shown on drawings TPP_WATERBEACH_1_2 to TPP_WATERBEACH_15_2). Refer to Table 8.3.2 below for tree works.

### 8.3.2. Tree Work Specification

| Tree No. | Map Ref | Recommended Works |
| :---: | :---: | :--- |
| T002 -T004 | TPP_WATERBEACH_1_2 | Raise crowns to 5m over track |
| T028 | TPP_WATERBEACH_1_2 | Raise crown to 3.5m over proposed compound site |
| T052 | TPP_WATERBEACH_3_2 | Raise crown to 3m over work area |
| T054 | TPP_WATERBEACH_3_2 | Section of hedge to be grubbed out |
| T072 - T099 | TPP_WATERBEACH_5_2 <br> TPP_WATERBEACH_6_2 | Raise crowns to 4m over track |
| T120 | TPP_WATERBEACH_9_2 | Cut back crowns on west side by 4m |
| T122 - T125 <br> T134 \& T135 | TPP_WATERBEACH_10_2 | Raise crowns to 4m over track |
| T121 | TPP_WATERBEACH_10_2 | Section of hedge to be grubbed out |
| T139 | TPP_WATERBEACH_11_2 | Section of hedge to be grubbed out |
| T173 | TPP_WATERBEACH_14_2 | Section of hedge to be grubbed out |

It should be noted that further works may be required as the scheme progresses and requirements for access etc may change.

### 8.3 Root pruning

8.3.2 The position of the open cut installation is close to tree group T120 and makes an encroachment into the RPAs (refer to drawing TPP_WATERBEACH_9_2). Whilst the encroachment appears minor, the position on the ground once works have commenced may bring the trench closer to the tree belt. It is recommended that a test trench is excavated by air spade along the line of the marked-out pipe route and any roots found
severed cleanly by an arboriculturist to prevent the excavator pulling roots out of the ground. The roots should be cut at least 200 mm from the outer edge of the proposed trench and covered with damp hessian to prevent desiccation.

### 8.4 Storage of materials

8.4.1 The work compounds are likely to store the materials necessary for the project and this may include fuels/chemicals/materials. All such materials must be stored away from the RPAs of the retained trees. If space is limited, measures should be in place, based on the material type, to prevent contamination of the soil in the event of an accidental spillage.

## Appendices

Appendix One: Site Location Plan
Appendix Two: Tree Schedule
Appendix Three: Tree Root Protection Area Distances

## Appendix One: Site Location Plan



| Appendix 2: Tree Schedule |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ref | Common Name | Structure | Height (m) | Stem Diam (mm) | Spread | Crown Clearance (m) | Lowest Branch | Life Stage | General Observations | Rem. Contrib. | Retention <br> Category | RPA |
| T001 | Hawthorn | Group | 6 | 100 | $\begin{aligned} & \mathrm{N}: 2 \\ & \mathrm{E}: 5 \\ & \mathrm{~S}: 2 \\ & \mathrm{~W}: 4 \end{aligned}$ | 0 | 1 | Mature | Some maintenance farm side Includes dead elm Inclusive bark. <br> Dead wood. <br> Trees growing below level of track | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | B3 | Area: same as Group - 138 sq m. |
| T002 | Pedunculate Oak | Tree | 16 | 990 | $\begin{gathered} \mathrm{N}: 9 \\ \mathrm{E}: 9.5 \\ \mathrm{~S}: 10 \\ \mathrm{~W}: 10 \end{gathered}$ | 3 | 4.5(E) | Mature | Light deadwood <br> Decay pockets on trunk Decay pockets in crown Storm damaged with shed limbs Growing on ditch bank | $\begin{aligned} & 50+ \\ & \text { Years } \end{aligned}$ | A2 | Radius: 11.9m. Area: 445 sq m. |
| T003 | Pedunculate Oak | Tree | 14 | 880 | $\begin{gathered} \mathrm{N}: 7 \\ \mathrm{E}: 8 \\ \mathrm{~S}: 5 \\ \mathrm{~W}: 6 \end{gathered}$ | 0 | 4(E) | Mature | Trunk snapped in past at 4m Light deadwood Decay pockets on trunk Decay pockets in crown Storm damaged with shed limbs Growing on ditch bank Stem hollow, decayed, cracked (inc. shear cracks) | $\begin{aligned} & 40+ \\ & \text { Years } \end{aligned}$ | B3 | Radius: 10.6 m . Area: 353 sq m. |
| T004 | Pedunculate Oak | Tree | 16 | 1070 | $\mathrm{N}: 8$ <br> E:9 <br> S:6 <br> W:8 | 1.5 | 5.5(E) | Mature | Epicormics on trunk <br> Light deadwood <br> Trunk forks at 2 m <br> Decay pockets in crown <br> Growing on ditch bank | $\begin{aligned} & 50+ \\ & \text { Years } \end{aligned}$ | A2 | Radius: 12.8 m . Area: 515 sq m. |
| T005 | Pedunculate Oak | Tree | 17 | 820 | $\begin{gathered} \mathrm{N}: 10 \\ \mathrm{E}: 10 \\ \mathrm{~S}: 7 \\ \mathrm{~W}: 85 \end{gathered}$ | 5 | 6(E) | Mature | Epicormics on trunk Light deadwood Decay pockets in crown Growing on ditch bank | $\begin{aligned} & 50+ \\ & \text { Years } \end{aligned}$ | A2 | Radius: 9.8m. Area: 302 sq m. |


| Ref | Common Name | Structure | Height (m) | Stem Diam (mm) | Spread | Crown Clearance (m) | Lowest Branch | Life Stage | General Observations | Rem. Contrib. | Retention <br> Category | RPA |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| T006 | Pedunculate Oak | Tree | 12 | 650 | $\begin{gathered} \mathrm{N}: 9 \\ \mathrm{E}: 10 \\ \mathrm{~S}: 5 \\ \mathrm{~W}: 5 \end{gathered}$ | 7 | 8(E) | Mature | Flux on trunk Decay pockets on trunk Decay pockets in crown Heavy deadwood Stem/limb decay. Bark necrosis. <br> Likely high wildlife value | $\begin{aligned} & 10+ \\ & \text { Years } \end{aligned}$ | B3 | Radius: 7.8 m . <br> Area: 213 sq m |
| T007 | Pedunculate Oak | Tree | 16 | 950 | $\begin{gathered} \mathrm{N}: 9 \\ \mathrm{E}: 10 \\ \mathrm{~S}: 8 \\ \mathrm{~W}: 9 \end{gathered}$ | 5 | 7(E) | Mature | Heavy epicormics on trunk Decay pockets in crown Light deadwood Growing on ditch bank | $\begin{aligned} & 50+ \\ & \text { Years } \end{aligned}$ | A2 | Radius: 11.4 m . Area: 408 sq m. |
| T008 | Pedunculate Oak | Tree | 19 | 1350 | $\begin{gathered} \mathrm{N}: 7 \\ \mathrm{E}: 9 \\ \mathrm{~S}: 9 \\ \mathrm{~W}: 9 \end{gathered}$ | 10 |  | Over Mature | Root decay (fungi) - <br> Ganoderma sp. <br> Stem/limb decay. <br> Stem hollow, decayed, cracked <br> (inc. shear cracks). <br> Bark necrosis. <br> Dieback - poor foliage. <br> Heavy Dead wood. <br> Ivy on Stem <br> Decay pockets on trunk <br> Decay pockets in crown | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | B2,3 | Radius: 15.0 m . Area: 707 sq m. |
| T009 | Common Ash | Tree | 15 | 850 | $\begin{gathered} \mathrm{N}: 8 \\ \mathrm{E}: 8 \\ \mathrm{~S}: 7 \\ \mathrm{~W}: 18 \end{gathered}$ | 3 |  | Mature | Dieback - poor foliage. <br> Dead wood. <br> Sub-dominant stems present <br> Ivy on trunk <br> Decay pockets in crown <br> Suppressed by adjacent tree | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 10.2 m . Area: 327 sq m. |
| T010 | Common Ash | Tree | 10 | 380 | $\begin{gathered} \mathrm{N}: 5 \\ \mathrm{E}: 6 \\ \mathrm{~S}: 6 \mathrm{~W}: 4 \end{gathered}$ | 5 |  | Early Mature | Prolific ivy. | $\begin{aligned} & 40+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 4.6 m . Area: 66 sq m. |


| Ref | Common Name | Structure | Height (m) | Stem Diam (mm) | Spread | Crown Clearance (m) | Lowest Branch | Life Stage | General Observations | Rem. Contrib. | Retention Category | RPA |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| T011 | Common Ash | Tree | 10 | 380 | $\begin{gathered} \mathrm{N}: 5 \\ \mathrm{E}: 4 \\ \mathrm{~S}: 5 \\ \mathrm{~W}: 3 \end{gathered}$ | 2.5 |  | Early Mature | Group of 2 trees closely spaced <br> Former hedge trees <br> Topped at $2 m$ <br> Trunk decay hollowing <br> Mutually suppressed <br> Regrown from old topping point | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | B3 | Radius: 6.4 m . Area: 129 sq m. |
| T012 | Common Ash | Tree | 9 | 350, 270, 280, 300 | $\begin{gathered} \mathrm{N}: 5 \\ \mathrm{E}: 5 \\ \mathrm{~S}: 5 \\ \mathrm{~W}: 5 \end{gathered}$ | 5 |  | Mature | Multiple stems from ground level Enjoy <br> Former hedge tree Light deadwood | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | B3 | Radius: 7.2 m . Area: 163 sq m. |
| T013 | Common Ash | Tree | 9 | 580, 500 | $\mathrm{N}: 6$ <br> E:5 <br> S:3 <br> W:4 | 4 | 1 | Mature | Former hedge tree Light deadwood Stem hollow, decayed, cracked (inc. shear cracks). Lapsed pollard. Dead wood. | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | B3 | Radius: 9.2m. Area: 266 sq m. |
| T014 | Common Ash | Tree | 9 | 300, 280 | N: 6 <br> E:5 <br> $\mathrm{s}: 3$ <br> W:2 | 4 |  | Mature | Former hedge tree Topped in the past Light deadwood | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | B3 | Radius: 4.9 m . Area: 75 sq m. |
| T015 | Common Ash | Tree | 12 | 400, 320, 330 | N:6 E:7 S:4 W:5 |  |  | Mature | Former hedge tree Enjoy <br> Trunk decay <br> Topped in the past Bark necrosis | $\begin{aligned} & 10+ \\ & \text { Years } \end{aligned}$ | B3 | Radius: 7.3 m . Area: 167 sq m. |
| T016 | Common Ash | Tree | 10 | 400, 350, 450 | $\begin{gathered} \mathrm{N}: 6 \\ \mathrm{E}: 6 \\ \mathrm{~S}: 5 \\ \mathrm{~W}: 5 \end{gathered}$ |  |  | Mature | Former hedge tree Trunk decay Topped in the past Dead wood. Prolific ivy. | $\begin{aligned} & 10+ \\ & \text { Years } \end{aligned}$ | B3 | Radius: 8.4 m . Area: 222 sq m. |


| Ref | Common Name | Structure | Height (m) | Stem Diam (mm) | Spread | Crown Clearance (m) | Lowest Branch | Life Stage | General Observations | Rem. Contrib. | Retention Category | RPA |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| T017 | Common Ash | Tree | 10 | 320 | $\begin{gathered} \mathrm{N}: 53 \\ \mathrm{E}: 6 \\ \mathrm{~S}: 5 \\ \mathrm{~W}: 3 \end{gathered}$ |  |  | Mature | Topped in the past Decay at pruning wound | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | C2 | Radius: 3.8 m . Area: 45 sq m. |
| T018 | Common Ash | Tree | 9 | 650 | N:6 <br> E:3 <br> S:4 <br> W:5 | 4 |  | Mature | Former hedge tree Topped in the past Advanced trunk decay Section collapsed Fungi present on trunk | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | B3 | Radius: 7.8 m . Area: 191 sq m. |
| T019 | Common Ash | Tree | 9 | 350, 310 | $\begin{gathered} \mathrm{N}: 4 \\ \mathrm{E}: 3 \\ \mathrm{~S}: 5 \\ \mathrm{~W}: 3 \end{gathered}$ | 4 |  | Mature | Former hedge tree <br> Topped in the past <br> Advanced trunk decay <br> Bark necrosis <br> Basal decay <br> Twin-stemmed from ground level | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | B3 | Radius: 5.6 m . Area: 99 sq m. |
| T020 | Common Ash | Tree | 9 | 350, 480 | N: 6 <br> E:4 <br> S:4 <br> W:5 | 5 |  | Mature | Former hedge tree <br> Topped in the past <br> Advanced trunk decay Twinstemmed from ground level | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | B3 | Radius: 7.1 m . Area: 158 sq m. |
| T021 | Common Hawthorn | Hedge | 7 | 100 | $\begin{gathered} \mathrm{N}: 3 \\ \mathrm{E}: 3 \\ \mathrm{~S}: 3 \\ \mathrm{~W}: 3 \end{gathered}$ | 0 |  | Mature | Managed hedge <br> Self-set trees and former hedge trees growing through <br> Multiple stems from ground level | $\begin{aligned} & \text { 40+ } \\ & \text { Years } \end{aligned}$ | A2,3 | Area: 583 sq m. |
| T022 | Common Ash | Tree | 9 | 230, 280 | $\begin{gathered} \mathrm{N}: 5 \\ \mathrm{E}: 4 \\ \mathrm{~S}: 5 \\ \mathrm{~W}: 4 \end{gathered}$ | 3 |  | Early Mature | Twin-stemmed from ground level Exposed roots Light deadwood | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | C2 | Radius: 4.3m. Area: 58 sq m. |


| Ref | Common Name | Structure | Height (m) | Stem Diam (mm) | Spread | Crown Clearance (m) | Lowest Branch | Life Stage | General Observations | Rem. Contrib. | Retention Category | RPA |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| T023 | Ash | Tree | 10 | 320 | $\begin{aligned} & \mathrm{N}: 5 \\ & \mathrm{E}: 4 \\ & \mathrm{~S}: 6 \\ & \mathrm{~W}: 5 \end{aligned}$ | 2 |  | Early Mature | basal growth becoming Subdominant Light deadwood | $\begin{aligned} & 40+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 3.8 m . Area: 45 sq m. |
| T024 | Elm | Tree | 8 | 200 | $\mathrm{N}: 1$ <br> E: 1 <br> S:1 <br> W:1 |  |  | Dead |  |  | U | None - due to Retention Category of U. |
| T025 | Common Hawthorn | Group | 5 | 60 | $\begin{gathered} \mathrm{N}: 2 \\ \mathrm{E}: 2 \\ \mathrm{~S}: 2 \\ \mathrm{~W}: 2 \end{gathered}$ | 0 |  | Early Mature | Poor gappy hedge | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | C2,3 | Area: $300 \mathrm{sq} \mathrm{m}$. |
| T026 | Common Hawthorn | Tree | 4 | $\begin{gathered} 70,50,140,50,60 \\ 30,80,80 \end{gathered}$ | $\begin{gathered} \mathrm{N}: 0.5 \\ \mathrm{E}: 3 \\ \mathrm{~S}: 3 \\ \mathrm{~W}: 4 \end{gathered}$ | 0 |  | Mature | Maintained on farm side Branches growing through fence | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | C3 | Radius: 2.6 m . Area: 21 sq m . |
| T027 | Common Ash | Tree | 5 | 80,90 | $\begin{gathered} \mathrm{N}: 1 \\ \mathrm{E}: 13 \\ \mathrm{~S}: 3.5 \\ \mathrm{~W}: 3 \end{gathered}$ | 1 |  | Early Mature | Multiple stems from ground level | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | C2 | Radius: 1.4m. Area: 6 sq m. |
| T028 | Common Ash x2 | Group | 17 | 250 | $\begin{gathered} \mathrm{N}: 8 \\ \mathrm{E}: 8 \\ \mathrm{~S}: 8 \\ \mathrm{~W}: 8 \end{gathered}$ | 1 | 2.5(SW) | Early Mature | 2 multi-stemmed trees Included bark in main forks Light deadwood | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | B2 | Area: 89 sq m. |
| T029 | Common Hawthorn | Hedge | 4 | 100 | $\begin{gathered} \mathrm{N}: 1 \\ \mathrm{E}: 2 \\ \mathrm{~S}: 3 \\ \mathrm{~W}: 2 \end{gathered}$ |  | 0 |  | Section of gappy hawthorn hedge Maintained on farm side | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | C2 | Area: 131 sq m . |


| Ref | Common Name | Structure | Height (m) | Stem Diam (mm) | Spread | Crown Clearance (m) | Lowest Branch | Life Stage | General Observations | Rem. Contrib. | Retention Category | RPA |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| T030 | Common Hawthorn | Hedge | 5 | 150 | $\begin{gathered} \mathrm{N}: 4 \\ \mathrm{E}: 2 \\ \mathrm{~S}: 3 \\ \mathrm{~W}: 2 \end{gathered}$ |  | 0 | Mature | Gappy hedge with mature trees | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | C2 | Area: 200 sq m. |
| T031 | Common Ash | Tree | 16 | 270, 290, 250 | $\mathrm{N}: 6$ E:6 S:4 W:5 | 4 | 0 | Mature | Multiple stems below 1.5 m Heavy ivy <br> Overhead cables in crown Ivy inhibits inspection Light deadwood | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 5.6 m . Area: 99 sq m. |
| T032 | Common Ash | Tree | 8 | 160,150 | $\begin{gathered} \mathrm{N}: 5 \\ \mathrm{E}: 3 \\ \mathrm{~S}: 3 \\ \mathrm{~W}: 2 \end{gathered}$ | 2 |  | Early Mature | Twin-stemmed from ground level Light deadwood | $\begin{aligned} & 10+ \\ & \text { Years } \end{aligned}$ | C2 | Radius: 2.6 m . Area: 21 sq m. |
| T033 | Common Ash | Tree | 8 | 140 | $\begin{aligned} & \mathrm{N}: 1.5 \\ & \mathrm{E}: 1.5 \\ & \mathrm{~S}: 1.5 \\ & \mathrm{~W}: 1.5 \end{aligned}$ | 2.5 |  | Semi Mature | Light deadwood Drawn form Heavy ivy | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | C2 | Radius: 1.7 m . Area: 9 sq m. |
| T034 | Common Ash x7 pedunculate Oak x2 | Group | 17 | 270, 280 | $\begin{gathered} \mathrm{N}: 7 \\ \mathrm{E}: 3 \\ \mathrm{~S}: 5 \\ \mathrm{~W}: 4 \end{gathered}$ | 3 |  | Early Mature | Line of 7 trees Mutually suppressed Drawn form Some twin stemmed Light deadwood | $\begin{aligned} & 30+ \\ & \text { Years } \end{aligned}$ | B2 | Area: 52 sq m. |
| T035 | Pedunculate Oak | Tree | 16 | 500 | $\mathrm{N}: 8$ <br> E:7 <br> S:7 <br> W:6 | 4 | 4(SE) |  | Heavy epicormics on trunk Light deadwood | $\begin{aligned} & \text { 40+ } \\ & \text { Years } \end{aligned}$ | B2 | Radius: 6.0m. Area: 113 sq m. |
| T036 | Pedunculate Oak | Tree | 16 | 50 | $\begin{gathered} \mathrm{N}: 7 \\ \mathrm{E}: 5 \\ \mathrm{~S}: 6 \\ \mathrm{~W}: 18 \end{gathered}$ | 4 |  | Mature | Heavy epicormics on trunk Light deadwood | $\begin{aligned} & 40+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 6.0m. Area: 113 sq m. |


| Ref | Common Name | Structure | Height (m) | Stem Diam (mm) | Spread | Crown Clearance (m) | Lowest Branch | Life Stage | General Observations | Rem. Contrib. | Retention Category | RPA |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| T037 | Common Ash x2 | Group | 11 | 200 | $\begin{aligned} & \mathrm{N}: 7 \\ & \mathrm{E}: 5 \\ & \mathrm{~S}: 4 \\ & \mathrm{~W}: 5 \end{aligned}$ | 6 |  | Early Mature | Dieback - poor foliage. Dead wood. <br> Mutually suppressed Drawn form | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 2.4 m . Area: 35 sq m . |
| T038 | Common Ash | Tree | 10 | 520 | $\begin{aligned} & \mathrm{N}: 0 \\ & \mathrm{E}: 1 \\ & \mathrm{~S}: 3 \\ & \mathrm{~W}: 4 \end{aligned}$ |  |  | Mature | Diameters estimated <br> Formerly 2 stems <br> 1 split out in past <br> Remaining stem advanced <br> decay <br> Bark necrosis | $\begin{aligned} & <10 \\ & \text { years } \end{aligned}$ | B3 | Radius: 6.2 m . Area: 121 sq m. |
| T039 | Common Ash | Tree | 17 | 350 | $\begin{gathered} \mathrm{N}: 3 \\ \mathrm{E}: 7 \\ \mathrm{~S}: 5 \\ \mathrm{~W}: 8 \end{gathered}$ | 4 |  | Mature | Diameters estimated <br> Main stem split out in past at 3m Remaining stem advanced decay and hollowing Bark necrosis Decay pockets in crown Hung up Section of stem | $\begin{aligned} & <10 \\ & \text { years } \end{aligned}$ | B | Radius: 4.1 m . Area: 53 sq m . |
| T040 | Common Ash | Tree | 9 | 340 | N:4 <br> E:4 <br> S:4 <br> W:4 | 2.5 |  | Early Mature | Sub-dominant stem decayed Moderate deadwood Dieback - poor foliage. | $\begin{aligned} & 10+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 4.1m. Area: 53 sq m. |
| T041 | Common Hawthorn | Hedge | 2 | 30 | $\begin{aligned} & \mathrm{N}: 0.5 \\ & \mathrm{E}: 0.5 \\ & \mathrm{~s}: 0.5 \\ & \mathrm{~W}: 0.5 \end{aligned}$ | 0 |  | Early Mature | Small section of maintained hedge on North side of ditch | $\begin{aligned} & 30+ \\ & \text { Years } \end{aligned}$ | C2,3 | Area: 20 sq m. |
| T042 | Common Ash | Tree | 12 | $\begin{gathered} 100,120,150,140 \\ 110,110 \end{gathered}$ | $\begin{gathered} \mathrm{N}: 6 \\ \mathrm{E}: 6 \\ \mathrm{~S}: 5 \\ \mathrm{~W}: 5 \end{gathered}$ | 3 |  | Mature | Multiple stems from ground level Included bark in main forks Light deadwood Stems rubbing and causing damage | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 3.6 m . Area: 41 sq m. |


| Ref | Common Name | Structure | Height (m) | Stem Diam (mm) | Spread | Crown Clearance (m) | Lowest Branch | Life Stage | General Observations | Rem. Contrib. | Retention Category | RPA |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| T044 | Common Hawthorn | Group | 4 | 80 | $\begin{aligned} & \mathrm{N}: 3 \\ & \mathrm{E}: 3 \\ & \mathrm{~S}: 3 \\ & \mathrm{~W}: 3 \end{aligned}$ | 0 |  | Early Mature | Small, isolated group | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | C2 | Area: 10 sq m. |
| T045 | Common Hawthorn | Group | 4 | 80 | $\begin{gathered} \mathrm{N}: 4 \\ \mathrm{E}: 3 \\ \mathrm{~S}: 3 \\ \mathrm{~W}: 3 \end{gathered}$ | 0 |  | Early Mature | Small, isolated group | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | C2 | Area: same as Group - 10 sq m. |
| T046 | Common Hawthorn | Hedge | 6 | 100 | $\begin{gathered} \mathrm{N}: 3 \\ \mathrm{E}: 3.5 \\ \mathrm{~S}: 3 \\ \mathrm{~W}: 3 \end{gathered}$ | 0 |  | Mature | Section of unmanaged hedge No access | $\begin{gathered} 20+ \\ \text { Years } \end{gathered}$ | C2 | Area: 30 sq m. |
| T047 | Hornbeam | Group | 9 | 270, 150 | $\begin{gathered} \mathrm{N}: 5 \\ \mathrm{E}: 5 \\ \mathrm{~S}: 3 \\ \mathrm{~W}: 4 \end{gathered}$ | 1 |  | Early Mature | Group of 2 trees Light deadwood | $\begin{aligned} & \text { 40+ } \\ & \text { Years } \end{aligned}$ | B2 | Area: 31 sq m. |
| T048 | Willow | Stump | 9 | 340.320.280.300.150 | $\begin{gathered} \mathrm{N}: 7 \\ \mathrm{E}: 8 \\ \mathrm{~S}: 6 \\ \mathrm{~W}: 8 \end{gathered}$ | 1.5 | 1 | Mature | Poor shape/form. <br> Trunk forks below 1.5m. <br> Decay pockets on stem. Light deadwood in crown Stems split apart at base. Basal decay. <br> Can be retained with management | $\begin{aligned} & 10+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 7.8m. Area: 191 sq m. |


| Ref | Common Name | Structure | Height (m) | Stem Diam (mm) | Spread | Crown Clearance (m) | Lowest Branch | Life Stage | General Observations | Rem. Contrib. | Retention Category | RPA |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| T049 | Cypress species Hornbeam Cherry Laurel | Group | 12 | 400 | $\begin{gathered} \mathrm{N}: 5 \\ \mathrm{E}: 5 \\ \mathrm{~S}: 5 \\ \mathrm{~W}: 5 \end{gathered}$ | 0 |  | Mature | Mixed group planted as a linear feature. <br> 13 trees including cypress and occasional hornbeam and laurel. <br> Mutually suppressed. <br> Light deadwood. <br> Low forks. <br> Included bark | $\begin{aligned} & 30+ \\ & \text { Years } \end{aligned}$ | B2 | Area: 211 sq m. |
| T050 | Common Hawthorn Common Ash | Hedge | 7 | 120 | $\begin{aligned} & \mathrm{N}: 3 \\ & \mathrm{E}: 3 \\ & \mathrm{~S}: 3 \\ & \mathrm{~W}: 3 \end{aligned}$ | 0 |  | Mature | Gappy hedge Unmanaged Some self-set Ash | $\begin{aligned} & 30+ \\ & \text { Years } \end{aligned}$ | C2,3 | Area: 356 sq m. |
| T051 | Cherry Plum | Tree | 8 | 90, 100, 110, 80, 130 | $\mathrm{N}: 6$ <br> E:5 <br> S:6 <br> W: 6 | 0 |  | Mature | Multiple stems below 1.5 m Light deadwood Included bark in main forks | $\begin{aligned} & 10+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 2.8 m . Area: 25 sq m. |
| T052 | Common Ash | Tree | 13 | 350, 270, 300, 350 | $\begin{aligned} & \mathrm{N}: 7 \\ & \mathrm{E}: 7 \\ & \mathrm{~S}: 7 \\ & \mathrm{~W}: 7 \end{aligned}$ | 2.5 |  | Mature | Multiple stems below 1.5 m Light deadwoodl | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 7.8 m . Area: 191 sq m. |
| T053 | Common Hawthorn Elder | Group | 5 | 140 | $\mathrm{N}: 4$ <br> E:4 <br> S:4 <br> W:4 | 0 |  | Mature | No access Diameters estimated Light deadwood | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | C2 | Area: 128 sq m. |
| T054 | Common <br> Hawthorn <br> Dogwood Common Ash Plum | Hedge | 6 | 100 | $\begin{aligned} & \mathrm{N}: 2 \\ & \mathrm{E}: 3 \\ & \mathrm{~S}: 2 \\ & \mathrm{~W}: 2 \end{aligned}$ | 0 |  | Early Mature | Mixed hedge <br> Some dead sections taken over by brambles <br> Overhead power lines means height regularly reduced | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | B2,3 | Area: 1513 sq m. |


| Ref | Common Name | Structure | Height (m) | Stem Diam (mm) | Spread | Crown Clearance (m) | Lowest Branch | Life Stage | General Observations | Rem. Contrib. | Retention Category | RPA |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| T055 | Common Ash | Tree | 16 | 450, 480 | $\begin{aligned} & \mathrm{N}: 6 \\ & \mathrm{E}: 5 \\ & \mathrm{~S}: 6 \\ & \mathrm{~W}: 6 \end{aligned}$ | 4 |  | Mature | Prolific ivy. <br> Light deadwood Ivy prevents inspection | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 7.9 m . Area: 196 sq m. |
| T056 | Common Ash | Tree | 16 | 380 | $\begin{aligned} & \mathrm{N}: 3 \\ & \mathrm{E}: 2 \\ & \mathrm{~S}: 5 \\ & \mathrm{~W}: 3 \end{aligned}$ | 2.5 |  | Early Mature | Drawn form Mutually suppressed Light deadwood Prolific ivy Ivy prevents inspection | $\begin{aligned} & 10+ \\ & \text { Years } \end{aligned}$ | C2 | Radius: 4.6m. Area: 66 sq m. |
| T057 | Common Ash | Tree | 17 | $300,250,130,160$ | $\begin{gathered} \mathrm{N}: 9 \\ \mathrm{E}: 4 \\ \mathrm{~S}: 6 \\ \mathrm{~W}: 7 \end{gathered}$ | 2.5 |  | Mature | Multiple stems below 1.5 m Ivy prevents inspection Prolific ivy. Light deadwood Mutually suppressed Drawn form | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 5.3 m . Area: 88 sq m. |
| T058 | Common Ash | Tree | 16 | 110,250 | $\begin{gathered} \mathrm{N}: 6 \\ \mathrm{E}: 4 \\ \mathrm{~S}: 3 \\ \mathrm{~W}: 3 \end{gathered}$ | 5 |  | Early Mature | Drawn form <br> Mutually suppressed Prolific ivy Ivy prevents inspection Light deadwood | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | C2 | Radius: 3.3 m . Area: 34 sq m. |
| T059 | Willow | Tree | 15 | 900 | $\begin{gathered} \mathrm{N}: 10 \\ \mathrm{E}: 8 \\ \mathrm{~S}: 6 \\ \mathrm{~W}: 5 \end{gathered}$ | 3 |  | Mature | Prolific ivy. <br> Ivy prevents inspection <br> Light deadwood <br> Decay pockets in crown | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 10.8 m . Area: 366 sq m. |
| T060 | Common Hawthorn | Hedge | 6 | 130 | $\begin{gathered} \mathrm{N}: 3 \\ \mathrm{E}: 2 \\ \mathrm{~S}: 2 \\ \mathrm{~W}: 3 \end{gathered}$ | 0 |  | Mature | Unmanaged section of hedge Light deadwood | $\begin{aligned} & 40+ \\ & \text { Years } \end{aligned}$ | B2,3 | Area: $42 \mathrm{sq} \mathrm{m}$. |
| T061 | Elder | Hedge | 4 | 80 | $\mathrm{N}: 2 \mathrm{E}: 2$ s: 2: W2 | 1 |  | Mature | Gappy hedge on South edge of ditch | $\begin{aligned} & 10+ \\ & \text { Years } \end{aligned}$ | C2 | Area: 165 sq m. |


| Ref | Common Name | Structure | Height (m) | Stem Diam (mm) | Spread | Crown Clearance (m) | Lowest Branch | Life Stage | General Observations | Rem. Contrib. | Retention Category | RPA |
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| T062 | Common Ash | Tree | 10 | 500 | $\begin{aligned} & \mathrm{N}: 7 \\ & \mathrm{E}: 6 \\ & \mathrm{~S}: 7 \\ & \mathrm{~W}: 7 \end{aligned}$ | 2 |  | Mature | Heavy ivy in crown <br> Trunk diameters estimated <br> Sub-dominant stem <br> Light deadwood Overhead power cables | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 6.0m. Area: 113 sq m. |
| T063 | Common Ash | Tree | 12 | 1000 | $\begin{aligned} & \mathrm{E}: 6 \\ & \mathrm{~S}: 7 \\ & \mathrm{~W}: 7 \end{aligned}$ | 1 | 1 (NW) | Mature | Heavy ivy on trunk and into crown <br> Ivy prevents inspection Trunk diameter estimated Light deadwood Overhead power cables Tree possibly topped in past | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 15.0m. Area: 707 sq m. |
| T064 | Willow | Tree | 3 | 50 | $\begin{aligned} & \mathrm{N}: 3 \\ & \mathrm{E}: 3 \\ & \mathrm{~S}: 3 \\ & \mathrm{~W}: 3 \end{aligned}$ | 0 |  | Mature | Coppice regrowth from stump Prolific ivy Overhead power cable | $\begin{aligned} & 30+ \\ & \text { Years } \end{aligned}$ | C2 | Radius: 0.6m. Area: 1 sq m. |
| T065 | Willow | Tree | 9 | 500 | $\mathrm{N}: 4$ <br> E: 1 <br> S:1 <br> W:3 |  | 5 | Mature | Prolific ivy. <br> Leans West Ivy prevents inspection Light deadwood Stem lost in past | $\begin{aligned} & 10+ \\ & \text { Years } \end{aligned}$ | C2 | Radius: 6.0m. Area: 113 sq m. |
| T066 | Willow | Group | 17 | 700 | $\begin{aligned} & \mathrm{N}: 6 \\ & \mathrm{E}: 7 \\ & \mathrm{~S}: 9 \\ & \mathrm{~W}: 8 \end{aligned}$ | 3 |  | Mature | Ivy prevents inspection Some trees have collapsed Overhead power cable Fractured limbs - storm damage. Dead wood. Prolific ivy. | $\begin{aligned} & 10+ \\ & \text { Years } \end{aligned}$ | B2 | Area: 219 sq m. |
| 1067 | Common Hawthorn Elder | Hedge | 4.5 | 140 | $\begin{aligned} & \mathrm{N}: 3 \\ & \mathrm{E}: 3 \\ & \mathrm{~S}: 3 \\ & \mathrm{~W}: 3 \end{aligned}$ | 0 |  | Mature | Section of gappy hedge Unmanaged Light deadwood | $\begin{aligned} & 30+ \\ & \text { Years } \end{aligned}$ | C2 | Area: same as Group - 383 sq m. |


| Ref | Common Name | Structure | Height (m) | Stem Diam (mm) | Spread | Crown Clearance (m) | Lowest Branch | Life Stage | General Observations | Rem. Contrib. | Retention Category | RPA |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| T068 | Sycamore x3 | Group | 5 | 380 | $\begin{aligned} & \mathrm{N}: 3 \\ & \mathrm{E}: 3 \\ & \mathrm{~S}: 3 \\ & \mathrm{~W}: 3 \end{aligned}$ | 1 |  | Early Mature | Poor shape/form. <br> Basal growth. <br> Ivy on stem. <br> Unable to access stem. <br> Epicormics on trunk <br> Trees topped in the past | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | C2 | Area: 12 sq m. |
| T069 | Willow | Tree | 7 | 700 | $\begin{gathered} \mathrm{N}: 3.5 \\ \mathrm{E}: 4 \\ \mathrm{~S}: 3.5 \\ \mathrm{~W}: 4 \end{gathered}$ | 1 |  | Mature | Unable to access stem. <br> Pollard. <br> Hollow trunk. <br> Trunk decay. <br> Growing on West Bank of water filled ditch | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | B2,3 | Radius: 8.4m. Area: 222 sq m. |
| T070 | Pear | Tree | 9 | 230,380 | $\begin{aligned} & \mathrm{N}: 5 \\ & \mathrm{E}: 4 \\ & \mathrm{~S}: 4 \\ & \mathrm{~W}: 5 \end{aligned}$ | 0.5 | 2(SW) | Mature | Trunk forks below 1.5m. Bark wound/s. Decay pockets on stem. | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 5.3m. Area: 88 sq m . |
| T071 | Elm Field Maple Hawthorn | Group | 10 | 130 | $\begin{gathered} \mathrm{N}: 3 \\ \mathrm{E}: 1 \\ \mathrm{~S}: 3 \\ \mathrm{~W}: 3 \end{gathered}$ | 4 |  | Early Mature | Woodland group includes field maple, hawthorn. <br> Growing on East Side of water filled ditch below level of road. Some dead trees | $\begin{aligned} & 10+ \\ & \text { Years } \end{aligned}$ | C2 | Area: 218 sq m. |
| T072 | Sycamore | Tree | 7 | 200 | $\begin{aligned} & \mathrm{N}: 2 \\ & \mathrm{E}: 2 \\ & \mathrm{~S}: 2 \\ & \mathrm{~W}: 2 \end{aligned}$ | 2.5 |  | Early Mature | Bark wound/s. <br> Broken branches in crown. Light deadwood in crown | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | C2 | Radius: 2.4 m . Area: 18 sq m. |
| T073 | Sycamore | Tree | 7 | 190 | $\begin{gathered} \mathrm{N}: 2 \\ \mathrm{E}: 2 \\ \mathrm{~S}: 1 \\ \mathrm{~W}: 13 \end{gathered}$ | 2.5 |  | Early Mature | Light deadwood in crown. Bark wound/s. | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | C2 | Radius: 2.3 m . Area: 17 sq m. |


| Ref | Common Name | Structure | Height (m) | Stem Diam (mm) | Spread | Crown Clearance (m) | Lowest Branch | Life Stage | General Observations | Rem. Contrib. | Retention Category | RPA |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| T074 | Hornbeam | Tree | 6 | 250 | $\begin{aligned} & \mathrm{N}: 3.5 \\ & \mathrm{E}: 2.5 \\ & \mathrm{~S}: 2.5 \\ & \mathrm{~W}: 2.5 \end{aligned}$ | 4 |  | Early Mature | Light deadwood in crown. Bark wound/s. | $\begin{aligned} & 30+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 3.0m. Area: 28 sq m. |
| T075 | Norway Maple | Tree | 8 | 280 | $\begin{gathered} \mathrm{N}: 3.5 \\ \mathrm{E}: 2.5 \\ \mathrm{~S}: 4 \\ \mathrm{~W}: 4 \end{gathered}$ | 4 |  | Early Mature | Light deadwood in crown. Bark wound/s. Cavity developing at base. Trunk decay 1 | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 3.3 m . Area: 34 sq m. |
| T076 | Hornbeam | Tree | 5 | 210, 210 | $\begin{gathered} \mathrm{N}: 4.5 \\ \mathrm{E}: 3 \\ \mathrm{~S}: 3 \\ \mathrm{~W}: 3 \end{gathered}$ | 1 |  | Early Mature | Trunk forks below 1.5m. Bark wound/s. | $\begin{aligned} & 30+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 3.5 m . Area: 35 sq m . |
| T077 | Common Ash | Tree | 15 | 620 | $\mathrm{N}: 6$ <br> E:7 <br> s:6 <br> W:7 | 3 |  | Mature | Basal growth. <br> Bark wound/s. <br> Decay pockets on stem. <br> Epicormics on trunk. <br> Moderate deadwood in crown. <br> Branches touching overhead cables | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 7.4 m . Area: 172 sq m. |
| T078 | Sycamore | Tree | 12 | 510 | $\begin{aligned} & \mathrm{N}: 6 \\ & \mathrm{E}: 6 \\ & \mathrm{~S}: 6 \\ & \mathrm{~W}: 6 \end{aligned}$ | 2 |  | Mature | Decay pockets on stem. Light deadwood in crown. Multiple stems from 2 m | $\begin{aligned} & 30+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 6.1 m . Area: 117 sq m. |
| T079 | Hornbeam | Tree | 7 | 330 | $\begin{gathered} \mathrm{N}: 4 \\ \mathrm{E}: 2 \\ \mathrm{~S}: 2.5 \\ \mathrm{~W}: 3 \end{gathered}$ | 2 |  | Early Mature | Bark wound/s. | $\begin{aligned} & 30+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 4.0m. Area: 50 sq m. |
| T080 | Sycamore (variegated) | Tree | 11 | 390 | $\begin{gathered} \mathrm{N}: 6 \\ \mathrm{E}: 5 \\ \mathrm{~S}: 5 \\ \mathrm{~W}: 6 \end{gathered}$ | 2 |  | Early Mature | Bark wound/s. Light deadwood in crown. | $\begin{aligned} & 30+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 4.7 m . Area: 69 sq m. |


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| T081 | Field Maple | Tree | 5 | 250 | $\begin{aligned} & \mathrm{N}: 3 \\ & \mathrm{E}: 3 \\ & \mathrm{~S}: 3 \\ & \mathrm{~W}: 3 \end{aligned}$ | 1 | 1 | Early Mature | Bark wound/s. <br> Light deadwood in crown. | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 3.0m. Area: 28 sq m. |
| T082 | Norway Maple | Tree | 10 | 320 | $\begin{gathered} \mathrm{N}: 3 \\ \mathrm{E}: 3 \\ \mathrm{~S}: 3.5 \\ \mathrm{~W}: 3 \end{gathered}$ | 3 |  | Early Mature | Bark wound/s. <br> Light deadwood in crown. | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 3.8 m . Area: 45 sq m . |
| T083 | Sycamore | Tree | 12 | 400 | $\begin{gathered} \mathrm{N}: 4.5 \\ \mathrm{E}: 5 \\ \mathrm{~S}: 6.5 \\ \mathrm{~W}: 7 \end{gathered}$ | 2 |  | Early Mature | Decay pockets on stem. | $\begin{aligned} & 40+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 4.8 m . Area: 72 sq m. |
| T084 | Sycamore | Tree | 11 | 530 | $\begin{aligned} & \mathrm{N}: 5 \\ & \mathrm{E}: 5 \\ & \mathrm{~S}: 5 \\ & \mathrm{~W}: 5 \end{aligned}$ | 1.5 |  | Mature | Bark wound/s. <br> Light deadwood in crown. Multiple stems from 1.6 m | $\begin{aligned} & \text { 40+ } \\ & \text { Years } \end{aligned}$ | B2 | Radius: 6.4 m . Area: 129 sq m. |
| T085 | Sycamore | Tree | 11 | 490 | $\begin{gathered} \mathrm{N}: 4.5 \\ \mathrm{E}: 5 \\ \mathrm{~S}: 6 \\ \mathrm{~W}: 6 \end{gathered}$ | 1.5 |  | Early Mature | Basal growth. <br> Bark wound/s. <br> Inclusive bark. <br> Light deadwood in crown. | $\begin{aligned} & \text { 40+ } \\ & \text { Years } \end{aligned}$ | B2 | Radius: 5.9m. Area: 109 sq m. |
| T086 | Sycamore | Tree | 10 | 460 | $\begin{gathered} \mathrm{N}: 5 \\ \mathrm{E}: 6 \\ \mathrm{~S}: 6.5 \\ \mathrm{~W}: 6 \end{gathered}$ | 1.5 |  | Early Mature | Bark wound/s. <br> Light deadwood in crown. | $\begin{aligned} & 40+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 5.5 m . Area: 95 sq m. |
| T087 | Common Ash | Tree | 11 | 340 | $\mathrm{N}: 4.5$ <br> E:4.5 <br> S:5.5 <br> W:4.5 | 1.5 |  | Early Mature | Bark wound/s. <br> Light deadwood in crown. | $\begin{aligned} & 30+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 4.1m. Area: 53 sq m. |


| Ref | Common Name | Structure | Height (m) | Stem Diam (mm) | Spread | Crown Clearance (m) | Lowest Branch | Life Stage | General Observations | Rem. Contrib. | Retention <br> Category | RPA |
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| T088 | Common Ash | Tree | 10 | 300 | $\begin{aligned} & \mathrm{N}: 5 \\ & \mathrm{E}: 3 \\ & \mathrm{~S}: 4 \\ & \mathrm{~W}: 5 \end{aligned}$ | 2 |  | Early Mature | Light deadwood in crown. | $\begin{aligned} & 30+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 3.6m. Area: 41 sq m. |
| T089 | Field Maple | Tree | 11 | $\begin{gathered} 230,250,320,180 \\ 270 \end{gathered}$ | $\begin{gathered} \mathrm{N}: 6 \\ \mathrm{E}: 5 \\ \mathrm{~S}: 6.5 \\ \mathrm{~W}: 6 \end{gathered}$ | 2 |  | Mature | Multiple stems from 0.5 m . End of belt of trees Bark wound/s. Light deadwood in crown. | $\begin{aligned} & 30+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 6.8 m . Area: 145 sq m. |
| T090 | Common Ash | Tree | 12 | 470 | $\begin{gathered} \mathrm{N}: 7.5 \\ \mathrm{E}: 7 \\ \mathrm{~S}: 5 \\ \mathrm{~W}: 6 \end{gathered}$ | 3 |  | Early Mature | Moderate deadwood in crown. Branches touching overhead cable Trunk forks above 1.5 m | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 5.6 m . Area: 99 sq m. |
| T091 | Common Ash | Tree | 11 | 190.230.320 | $\begin{aligned} & \mathrm{N}: 3 \\ & \mathrm{E}: 6 \\ & \mathrm{~S}: 4 \\ & \mathrm{~W}: 7 \end{aligned}$ | 3 |  | Early Mature | Light deadwood in crown. Trunk forks below 1.5m. | $\begin{aligned} & 30+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 5.2 m . Area: 83 sq m. |
| T092 | Common Ash | Tree | 10 | 620 | $\begin{aligned} & \mathrm{N}: 3 \\ & \mathrm{E}: 4 \\ & \mathrm{~S}: 4 \\ & \mathrm{~W}: 6 \end{aligned}$ | 5 |  | Over Mature | Light deadwood in crown. <br> Low vitality. <br> Declining. <br> Unable to access stem. <br> Major deadwood in crown. <br> Crown dieback. <br> Top lost in past. <br> Heavy ivy on trunk. <br> Growing within hedge | $\begin{aligned} & <10 \\ & \text { years } \end{aligned}$ | C3 | Radius: 7.4m. Area: 172 sq m. |
| T093 | Common Hawthorn Elm | Hedge | 1.5 | 60 | $\begin{aligned} & \mathrm{N}: 0.5 \\ & \mathrm{E}: 0.5 \\ & \mathrm{~S}: 0.5 \\ & \mathrm{~W}: 0.5 \end{aligned}$ | 0 |  | Early Mature | Maintained hedge. Includes elm and ivy | $\begin{aligned} & 40+ \\ & \text { Years } \end{aligned}$ | B2,3 | Area: 180 sq m. |


| Ref | Common Name | Structure | Height (m) | Stem Diam (mm) | Spread | Crown Clearance (m) | Lowest Branch | Life Stage | General Observations | Rem. Contrib. | Retention Category | RPA |
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| T094 | Common Ash | Group | 13 | 370 | $\begin{gathered} \mathrm{N}: 6 \\ \mathrm{E}: 5 \\ \mathrm{~S}: 4 \\ \mathrm{~W}: 6 \end{gathered}$ | 2 |  | Early Mature | Line of 5 trees. Bark wound/s. Light deadwood in crown. | $\begin{aligned} & 40+ \\ & \text { Years } \end{aligned}$ | B2 | Area: 301 sq m. |
| T095 | Pedunculate Oak | Tree | 20 | 700 | $\begin{aligned} & \mathrm{N}: 8 \\ & \mathrm{E}: 7 \\ & \mathrm{~S}: 9 \\ & \mathrm{~W}: 9 \end{aligned}$ | 2 |  | Mature | Unable to access stem Trunk diameter estimated Light deadwood in crown. Branches touching Overhead cables | $\begin{aligned} & 40+ \\ & \text { Years } \end{aligned}$ | A2 | Radius: 8.4 m . Area: 222 sq m. |
| 1096 | Common Ash | Tree | 10 | 340 | $\begin{aligned} & \mathrm{N}: 5 \\ & \mathrm{E}: 5 \\ & \mathrm{~S}: 5 \\ & \mathrm{~W}: 3 \end{aligned}$ | 3 |  | Early Mature | Ivy on stem. <br> Unable to inspect stem due to ivy. <br> Light deadwood in crown. | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 4.1 m . Area: 53 sq m . |
| T097 | Common Ash | Tree | 18 | 630 | $\begin{gathered} \mathrm{N}: 8 \\ \mathrm{E}: 6 \\ \mathrm{~S}: 7 \\ \mathrm{~W}: 8 \end{gathered}$ | 3 |  | Mature | Bark wound/s. <br> Decay pockets on stem. Light deadwood in crown. | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | A2 | Radius: 7.6 m . Area: 181 sq m. |
| 1098 | Sycamore | Tree | 10 | 350 | $\begin{gathered} \mathrm{N}: 4 \\ \mathrm{E}: 4 \\ \mathrm{~S}: 4 \\ \mathrm{~W}: 4 \end{gathered}$ | 2.5 |  | Early Mature | Ivy on stem. Bark wound/s. | $\begin{aligned} & 40+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 4.2 m . Area: 55 sq m . |
| T099 | Common Ash | Tree | 12 | 420 | $\begin{aligned} & \mathrm{N}: 7 \\ & \mathrm{E}: 6 \\ & \mathrm{~S}: 6 \\ & \mathrm{~W}: 7 \end{aligned}$ | 3 |  | Mature | Decay pockets in crown. Occluded trunk wound. Light deadwood. Branches touching Overhead cables. <br> Some crown dieback | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 5.0m. Area: 79 sq m. |


| Ref | Common Name | Structure | Height (m) | Stem Diam (mm) | Spread | Crown Clearance (m) | Lowest Branch | Life Stage | General Observations | Rem. Contrib. | Retention <br> Category | RPA |
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| 1100 | Common Ash | Tree | 10 | 400 | N: 6 <br> E:5 <br> s:5 <br> W:4 | 4 |  | Early Mature | Ivy on stem. <br> Unable to inspect stem due to ivy. <br> Unable to access stem. <br> Bark wound/s. <br> Light deadwood in crown. | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 4.8m. Area: 72 sq m. |
| T101 | Common Ash | Tree | 9 | 380 | N: 5 <br> E:4 <br> S:5 <br> W:4 | 4 |  | Early Mature | Unable to access stem. Decay pockets on stem. Moderate deadwood in crown due to suppression from adjacent tree on West side | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 4.8m. Area: 72 sq m. |
| T102 | Cypress | Group | 11 | 270,300 | $\begin{gathered} \mathrm{N}: 4.5 \\ \mathrm{E}: 4.5 \\ \mathrm{~S}: 5 \\ \mathrm{~W}: 4.5 \end{gathered}$ | 4 |  | Early Mature | Group of 6 cypress. Multiple stems below 1.5 m . Included bark in main forks | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | B2 | Area: 96 sq m. |
| T103 | Common Ash | Tree | 10 | 460 | $\mathrm{N}: 6$ <br> E:6 <br> s:6 <br> W: 6 | 2 |  | Mature | Unable to access stem. Light deadwood in crown. Occluded wounds on trunk | $\begin{aligned} & 30+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 5.5 m . Area: 95 sq m. |
| T104 | Common Ash | Tree | 8 | $\begin{gathered} 80,90,120,100 \\ 100,160,70 \end{gathered}$ | $\begin{gathered} \mathrm{N}: 4 \\ \mathrm{E}: 5 \\ \mathrm{~S}: 3 \\ \mathrm{~W}: 4 \end{gathered}$ | 1 |  | Early Mature | Regrowth from decayed stump. Larger stem is part of decayed trunk with cavity Advanced basal decay | $\begin{aligned} & 10+ \\ & \text { Years } \end{aligned}$ | B2,3 | Radius: 3.4 m . Area: 36 sq m. |
| T105 | Pedunculate Oak | Tree | 15 | 1050 | $\begin{gathered} \mathrm{N}: 8 \\ \mathrm{E}: 10 \\ \mathrm{~S}: 8 \\ \mathrm{~W}: 11 \end{gathered}$ | 2.5 |  | Mature | Major trunk cavity. <br> Large area of missing bark possible fire/lightning strike <br> Basal decay. <br> Trunk decay. <br> Light deadwood. | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | B2,3 | Radius: 16m. Area: 804 sq m. |


| Ref | Common Name | Structure | Height (m) | Stem Diam (mm) | Spread | Crown Clearance (m) | Lowest Branch | Life Stage | General Observations | Rem. Contrib. | Retention <br> Category | RPA |
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| T106 | Elm <br> Cherry Plum Common Ash | Group |  | 90, 100, 110, 80 | $\begin{gathered} \mathrm{N}: 4 \\ \mathrm{E}: 3 \\ \mathrm{~S}: 4 \\ \mathrm{~W}: 3 \end{gathered}$ | 0 |  | Mature | Unmanaged hedge. Includes cherry plum, occasional ash. Multiple stems from ground level. Ivy on trunks. Growing on South Side of ditch. | $\begin{aligned} & 30+ \\ & \text { Years } \end{aligned}$ | B2,3 | Area: 957 sq m. |
| T107 | Norway Maple Silver Birch Horse Chestnut | Group | 14 | 380 | $\begin{gathered} \mathrm{N}: 4 \\ \mathrm{E}: 4 \\ \mathrm{~S}: 5 \\ \mathrm{~W}: 4 \end{gathered}$ | 3 |  | Early Mature | Group of mixed amenity planting including bunch, horse chestnut, Norway maple,. <br> Group Mutually suppressed. Drawn form. <br> Bark wound/s. <br> Decay pockets on stem. Light deadwood in crown. | $\begin{aligned} & \text { 40+ } \\ & \text { Years } \end{aligned}$ | B2 | Area: 1525 sq m. |
| T108 | White Poplar | Tree | 25 | 590 | $\begin{gathered} \mathrm{N}: 10 \\ \mathrm{E}: 6 \\ \mathrm{~S}: 5 \\ \mathrm{~W}: 8 \end{gathered}$ | 3 |  | Mature | Surface roots sustained damage. <br> Decay pockets on stem. Light deadwood in crown. Leans north | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 7.1 m . Area: 158 sq m. |
| T109 | Hornbeam x4 Silver Maple xl | Group | 16 | 360 | $\mathrm{N}: 4$ <br> E:5 <br> S:4 <br> W:5 | 3 |  | Early Mature | Close growing group. <br> Mutually suppressed. Included bark in main forks of hornbeam. <br> Decay pockets on stem. Light deadwood in crown. | $\begin{aligned} & 30+ \\ & \text { Years } \end{aligned}$ | B2 | Area: 196 sq m. |


| Ref | Common Name | Structure | Height (m) | Stem Diam (mm) | Spread | Crown Clearance (m) | Lowest Branch | Life Stage | General Observations | Rem. <br> Contrib. | Retention Category | RPA |
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| T110 | Lime <br> Silver Maple Pedunculate Oak <br> Norway Maple Field Maple Horse Chestnut Wild Cherry Silver Birch | Group | 20 | 360 | $\begin{aligned} & \mathrm{N}: 6 \\ & \mathrm{E}: 4 \\ & \mathrm{~S}: 5 \\ & \mathrm{~W}: 4 \end{aligned}$ |  | 4 | Early Mature | Group of 16 trees. <br> Mutually suppressed. <br> Drawn form. <br> Included bark present in main fork of field maple. | $\begin{aligned} & 40+ \\ & \text { Years } \end{aligned}$ | B2 | Area: 518 sq m. |
| T111 | Pedunculate Oak Pine Norway Maple Horse Chestnut Purple Plum Silver Birch Cherry Rowan Elder Dogwood | Group | 25 | 910 | $\begin{aligned} & \mathrm{N}: 10 \\ & \mathrm{E}: 10 \\ & \mathrm{~S}: 10 \\ & \mathrm{~W}: 10 \end{aligned}$ | 1 |  | Mature | Dense belt of mature trees with understorey. <br> Mutually suppressed. <br> Basal growth. <br> Decay pockets on stem. Broken branches in crown. <br> Storm damage with shed limbs. <br> Moderate deadwood in crown. | $\begin{aligned} & \text { 40+ } \\ & \text { Years } \end{aligned}$ | A2 | Area: 3349 sq m. |
| T112 | Horse Chestnut | Tree | 15 | 400 | $\begin{gathered} \mathrm{N}: 5 \\ \mathrm{E}: 6 \\ \mathrm{~S}: 6 \\ \mathrm{~W}: 5 \end{gathered}$ | 3 |  | Early Mature | Twin stemmed at 2.5 m . Bark wound on trunk | $\begin{aligned} & 40+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 4.8 m . Area: 72 sq m. |
| T113 | Swedish Whitebeam | Group | 13 | 370 | $\begin{aligned} & \mathrm{N}: 5 \\ & \mathrm{E}: 5 \\ & \mathrm{~S}: 5 \\ & \mathrm{~W}: 5 \end{aligned}$ | 3 |  | Early Mature | Group includes Swedish whitebeam, horse chestnut, field maple. <br> Mutually suppressed. <br> Decay pockets on stem. Light deadwood in crown. | $\begin{aligned} & 40+ \\ & \text { Years } \end{aligned}$ | B2 | Area: 148 sq m. |


| Ref | Common Name | Structure | Height (m) | Stem Diam (mm) | Spread | Crown Clearance (m) | Lowest Branch | Life Stage | General Observations | Rem. Contrib. | Retention <br> Category | RPA |
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| T114 | Wild Cherry Norway Maple Silver Maple Swedish Whitebeam Mountain Ash Silver Birch | Group | 17 | 450 | $\begin{aligned} & \mathrm{N}: 6 \\ & \mathrm{E}: 6 \\ & \mathrm{~S}: 3 \\ & \mathrm{~W}: 5 \end{aligned}$ | 2 |  | Early Mature | Variable ages within group. 2 trees dead and a 3rd in decline. <br> Included bark present in main forks. <br> Light deadwood in crown. | $\begin{aligned} & \text { 40+ } \\ & \text { Years } \end{aligned}$ | B2 | Area: 419 sq m. |
| T115 | Wild Cherry Norway Maple Silver Birch | Group | 16 | 360 | $\begin{aligned} & \mathrm{N}: 6 \\ & \mathrm{E}: 3 \\ & \mathrm{~S}: 5 \\ & \mathrm{~W}: 4 \end{aligned}$ | 3 |  | Early Mature | Group includes wild cherry, Norway maple, birch. <br> Mutually suppressed. <br> Surface roots sustained damage. <br> Decay pockets on stem. Light deadwood in crown. | $\begin{aligned} & \text { 40+ } \\ & \text { Years } \end{aligned}$ | B2 | Area: 256 sq m. |
| T116 | Lime <br> Norway <br> Maple Field Maple Horse Chestnut Hornbeam | Group | 14 | 350 | $\begin{gathered} \mathrm{N}: 5 \\ \mathrm{E}: 5 \\ \mathrm{~S}: 5 \\ \mathrm{~W}: 5 \end{gathered}$ | 1 |  | Semi Mature | Mutually suppressed. <br> 1 small dead tree. <br> Light deadwood in crown. Maintained cypress hedge around group. | $\begin{aligned} & 40+ \\ & \text { Years } \end{aligned}$ | B2 | Area: 420 sq m. |
| T117 | Purple Plum Norway Maple Cherry Mixed shrubs | Group | 8 | 240 | $\begin{aligned} & \mathrm{N}: 4 \\ & \mathrm{E}: 4 \\ & \mathrm{~S}: 4 \\ & \mathrm{~W}: 4 \end{aligned}$ | 0 |  | Semi <br> Mature | Mixed shrub bed including occasional young trees including our pleasant plum Norway maple and cherry | $\begin{aligned} & \text { 40+ } \\ & \text { Years } \end{aligned}$ | B2 | Area: 261 sq m. |
| T118 | Norway <br> Maple Silver Maple | Group | 5 | 330 | $\begin{aligned} & \mathrm{N}: 3 \\ & \mathrm{E}: 3 \\ & \mathrm{~S}: 3 \\ & \mathrm{~W}: 3 \end{aligned}$ | 1 |  | Early Mature | Linear group including Norway maple and silver maple planted alternately. <br> Mutually suppressed. <br> Maintained as pollards. | $\begin{aligned} & \text { 40+ } \\ & \text { Years } \end{aligned}$ | B2 | Area: 122 sq m. |


| Ref | Common Name | Structure | Height (m) | Stem Diam (mm) | Spread | Crown Clearance (m) | Lowest Branch | Life Stage | General Observations | Rem. Contrib. | Retention Category | RPA |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| T119 | Cherry Plum Common Ash Sycamore Field Maple Elm | Group | 9 | 280 | $\begin{aligned} & \mathrm{N}: 4 \\ & \mathrm{E}: 5 \\ & \mathrm{~S}: 3 \\ & \mathrm{~W}: 4 \end{aligned}$ | 0 |  | Early Mature | Belt of trees <br> Mutually suppressed. <br> Some dead elm. <br> Trunk forks below 1.5 m . <br> Light deadwood in crown. <br> Crown dieback. <br> Included bark in low forks. | $\begin{aligned} & \text { 40+ } \\ & \text { Years } \end{aligned}$ | B2,3 | Area: 968 sq m. |
| T120 | Swedish Whitebeam Ash 'Raywood' Cherry Plum Lime Walnut Hazel Dogwood | Group | 12 | 500 | $\begin{aligned} & \mathrm{N}: 5 \\ & \mathrm{E}: 4 \\ & \mathrm{~S}: 7 \\ & \mathrm{~W}: 5 \end{aligned}$ | 3 |  | Mature | End section of belt of trees <br> Mutually suppressed. <br> Heavy ivy on trunks. <br> Low forks present. <br> Large Raymond ash split apart. <br> Light deadwood. | $\begin{aligned} & \text { 40+ } \\ & \text { Years } \end{aligned}$ | B2 | Area: 651 sq m. |
| T121 | Elm <br> Hawthorn Cherry Plum | Hedge | 4.5 | 60,60 | $\begin{gathered} \mathrm{N}: 2 \\ \mathrm{E}: 2 \\ \mathrm{~S}: 2 \\ \mathrm{~W}: 2 \end{gathered}$ | 0 |  | Early Mature | Hedge of elm, hawthorn, cherry plum. <br> Some dieback in individuals. Light deadwood. | $\begin{aligned} & 40+ \\ & \text { Years } \end{aligned}$ | B2,3 | Area: 200 sq m. |
| T122 | Pedunculate Oak | Tree | 11 | 1000 | $\begin{gathered} \mathrm{N}: 4 \\ \mathrm{E}: 3 \\ \mathrm{~S}: 5 \\ \mathrm{~W}: 5 \end{gathered}$ | 1 | 2(SE) | Early Mature | Ivy on stem. Unable to inspect stem due to ivy. <br> Epicormics on trunk Light deadwood in crown. Crown distorted due to group pressure. | $\begin{aligned} & 40+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 12.0 m . Area: 452 sq m. |
| T123 | Horse Chestnut | Tree | 11 | 530 | $\mathrm{N}: 5$ <br> E:6 <br> S:6 <br> W:5 | 2 |  | Early Mature | Ivy on stem. <br> Bark wound/s. <br> Light deadwood in crown. | $\begin{aligned} & \text { 40+ } \\ & \text { Years } \end{aligned}$ | B2 | Radius: 6.4 m . Area: 129 sq m. |
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| Ref | Common Name | Structure | Height (m) | Stem Diam (mm) | Spread | Crown Clearance (m) | Lowest Branch | Life Stage | General Observations | Rem. Contrib. | Retention Category | RPA |
| T124 | Swedish Whitebeam | Tree | 7 | 270 | $\begin{gathered} \mathrm{N}: 2 \\ \mathrm{E}: 3 \\ \mathrm{~S}: 3.5 \\ \mathrm{~W}: 3 \end{gathered}$ | 2 | 1.5(N) | Early Mature | Bark wound/s. <br> Light deadwood in crown. Crown distorted due to group pressure. | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 3.2 m . Area: 32 sq m. |
| T125 | Small-leaved Lime | Tree | 9 | 290 | $\begin{gathered} \mathrm{N}: 4 \\ \mathrm{E}: 5 \\ \mathrm{~S}: 5 \\ \mathrm{~W}: 2 \end{gathered}$ | 1.5 | 2.5(E) | Early Mature | Light deadwood in crown. Crown distorted due to group pressure. Inclusive bark. | $\begin{aligned} & 40+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 3.5 m . Area: 38 sq m. |
| T126 | Wild Cherry | Tree | 9 | 310 | $\begin{gathered} \mathrm{N}: 2 \\ \mathrm{E}: 3 \\ \mathrm{~S}: 2 \\ \mathrm{~W}: 3 \end{gathered}$ | 2 |  | Early Mature | Low vitality. <br> Declining. <br> Bark wound/s. <br> Major deadwood in crown. <br> Crown dieback. | $\begin{aligned} & <10 \\ & \text { years } \end{aligned}$ | U | None - due to Retention Category of $U$. |
| T127 | Small-leaved Lime | Tree | 25 | 580 | $\begin{aligned} & \mathrm{N}: 6 \\ & \mathrm{E}: 6 \\ & \mathrm{~S}: 7 \\ & \mathrm{~W}: 5 \end{aligned}$ | 1.5 | 2.5(W) | Mature | Light deadwood in crown. Decay pockets in crown. | $\begin{aligned} & 50+ \\ & \text { Years } \end{aligned}$ | A2 | Radius: 7.0m. Area: 154 sq m. |
| T128 | Horse Chestnut | Tree | 10 | 610 | $\begin{gathered} \mathrm{N}: 7 \\ \mathrm{E}: 5 \\ \mathrm{~S}: 5 \\ \mathrm{~W}: 7 \end{gathered}$ | 2 | 2(W) | Mature | Ivy on stem. <br> Unable to inspect stem due to ivy. <br> Light deadwood in crown. | $\begin{aligned} & \text { 40+ } \\ & \text { Years } \end{aligned}$ | A2 | Radius: 7.3m. Area: 167 sq m. |
| T129 | Small-leaved Lime | Tree | 17 | 420 | $\begin{gathered} \mathrm{N}: 2.5 \\ \mathrm{E}: 4 \\ \mathrm{~S}: 4 \\ \mathrm{~W}: 5 \end{gathered}$ | 1 | 1.5(SE) | Early Mature | Ivy on stem. Epicormics on trunk. Light deadwood in crown. | $\begin{aligned} & 40+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 5.0 m . Area: 79 sq m. |
| T130 | Small-leaved Lime | Tree | 20 | 490 | $\begin{aligned} & \mathrm{N}: 7 \\ & \mathrm{E}: 6 \\ & \mathrm{~S}: 7 \\ & \mathrm{~W}: 6 \end{aligned}$ | 1.5 | 2(SE) | Mature | Epicormics on trunk Light deadwood in crown. <br> Inclusive bark. <br> Major bark wound on stem ground level to 1.2 m occluding | $\begin{aligned} & 40+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 5.9 m . Area: 109 sq m. |


| Ref | Common Name | Structure | Height (m) | Stem Diam (mm) | Spread | Crown Clearance (m) | Lowest Branch | Life Stage | General Observations | Rem. <br> Contrib. | Retention Category | RPA |
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| T131 | Pedunculate Oak | Tree | 17 | 790 | $\begin{aligned} & \mathrm{N}: 7 \\ & \mathrm{E}: 7 \\ & \mathrm{~S}: 7 \\ & \mathrm{~W}: 8 \end{aligned}$ | 1 | 2(SW) | Mature | Ivy on stem. Unable to inspect stem due to ivy. <br> Epicormics on trunk Light deadwood in crown. <br> Decay pockets in crown. <br> Bark wounds on lower branches | $\begin{aligned} & 50+ \\ & \text { Years } \end{aligned}$ | A2,3 | Radius: 9.5m. Area: 284 sq m. |
| T132 | Common Alder | Tree | 3 | 100 | $\begin{aligned} & \mathrm{N}: 1 \\ & \mathrm{E}: 1 \\ & \mathrm{~S}: 1 \\ & \mathrm{~W}: 1 \end{aligned}$ |  |  | Semi Mature | Poor shape/form. <br> Low vitality. <br> Declining. <br> Ivy on stem. <br> Unable to inspect stem due to ivy. <br> Light deadwood in crown. <br> Crown dieback. | $\begin{aligned} & <10 \\ & \text { years } \end{aligned}$ | C2 | Radius: 1.2 m . <br> Area: 5 sq m. |
| T133 | Common Alder | Tree | 3 | 120 | $\begin{gathered} \mathrm{N}: 1 \\ \mathrm{E}: 0.5 \\ \mathrm{~S}: 1 \\ \mathrm{~W}: 2 \end{gathered}$ | 0 |  | Semi Mature | Poor shape/form. | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | C2 | Radius: 1.4m. Area: 6 sq m. |
| T134 | Aspen | Tree | 18 | 300 | $\begin{aligned} & \mathrm{N}: 6 \\ & \mathrm{E}: 6 \\ & \mathrm{~S}: 1 \\ & \mathrm{~W}: 5 \end{aligned}$ | 5 |  | Early Mature | Poor shape/form. <br> Bark wound/s. <br> Light deadwood in crown. <br> Leans North. <br> Basal decay South side | $\begin{aligned} & <10 \\ & \text { years } \end{aligned}$ | C2 | Radius: 3.6 m . Area: 41 sq m. |
| T135 | Norway <br> Maple | Tree | 12 | 390 | $\begin{gathered} \mathrm{N}: 7 \\ \mathrm{E}: 5 \\ \mathrm{~S}: 4 \\ \mathrm{~W}: 5 \end{gathered}$ | 1.5 | 1.5(N) | Early Mature | Bark wound/s. <br> Light deadwood in crown. Crown distorted due to group pressure. | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 4.7 m . Area: 69 sq m. |
| T136 | Pedunculate Oak | Tree | 9 | 290 | $\mathrm{N}: 5$ $\mathrm{E}: 5$ $\mathrm{~S}: 4 \mathrm{~W}: 4$ | 1 | 2(E) | Semi Mature | Occluded trunk wound. Light deadwood. | $\begin{aligned} & 50+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 3.5 m . Area: 38 sq m. |


| Ref | Common Name | Structure | Height (m) | Stem Diam (mm) | Spread | Crown Clearance (m) | Lowest Branch | Life Stage | General Observations | Rem. Contrib. | Retention Category | RPA |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| T137 | Common Ash | Tree | 9 | 250 | $\mathrm{N}: 5$ <br> E:4 <br> $\mathrm{s}: 3$ <br> W:4 | 1 | 1.5(W) | Semi <br> Mature | Light deadwood in crown. Crown distorted due to group pressure. | $\begin{aligned} & 40+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 3.0m. Area: 28 sq m. |
| T138 | Field Maple | Tree | 7 | 120, 110 | $\begin{gathered} \mathrm{N}: 3 \\ \mathrm{E}: 3 \\ \mathrm{~S}: 2 \\ \mathrm{~W}: 1 \end{gathered}$ | 2 |  | Semi <br> Mature | Trunk forks below 1.5 m . Crown distorted due to group pressure. | $\begin{aligned} & 40+ \\ & \text { Years } \end{aligned}$ | C2 | Radius: 2.0m. Area: 13 sq m. |
| T139 | Common Hawthorn Blackthorn | Hedge | 3 | 90 | $\mathrm{N}: 0.5$ <br> E:0.5 <br> S:0.5 <br> W:0.5 | 0 | 0 | Semi Mature | Includes blackthorn. Managed hedge. | $\begin{aligned} & 40+ \\ & \text { Years } \end{aligned}$ | B2,3 | Area: 101 sq m. |
| T140 | Common Ash | Tree | 11 | 400 | N: 5 <br> E:5 <br> s:5 <br> W:5 | 1 | 0.5(E) | Early Mature | Sub-dominant stem. Multiple stems from 2 m . Broken branches in crown. Light deadwood in crown. | $\begin{aligned} & 40+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 4.8m. Area: 72 sq m. |
| T141 | Sycamore | Tree | 9 | 380 | $\begin{aligned} & \mathrm{N}: 5 \\ & \mathrm{E}: 5 \\ & \mathrm{~S}: 5 \\ & \mathrm{~W}: 5 \end{aligned}$ | 0 | 1.5(S) | Early Mature | Epicormics on trunk. Sub-dominant stem present | $\begin{aligned} & 40+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 4.6m. Area: 66 sq m . |
| T142 | Common Hawthorn Field Maple | Hedge | 4 | 120 | $\mathrm{N}: 1$ <br> E: 1.5 <br> S:1 <br> W:1.5 | 0 |  | Early Mature | Occasional field maple. Some minor dieback in places. Occasional small gaps | $\begin{aligned} & \text { 40+ } \\ & \text { Years } \end{aligned}$ | B2,3 | Area: 1244 sq m. |
| T143 | Swedish Whitebeam | Tree | 5 | 290 | $\begin{gathered} \mathrm{N}: 2.5 \\ \mathrm{E}: 2.5 \\ \mathrm{~S}: 2.5 \\ \mathrm{~W}: 2.5 \end{gathered}$ | 1 | 1.1 (N) |  | Bark wound/s. <br> Light deadwood in crown. | $\begin{aligned} & 40+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 3.5 m . Area: 38 sq m. |
| Ref | Common Name | Structure | Height (m) | Stem Diam (mm) | Spread | Crown Clearance (m) | Lowest Branch | Life Stage | General Observations | Rem. Contrib. | Retention Category | RPA |


| T144 | Swedish Whitebeam | Tree | 5 | 310 | $\begin{aligned} & \mathrm{N}: 3 \\ & \mathrm{E}: 3 \\ & \mathrm{~S}: 3 \\ & \mathrm{~W}: 3 \end{aligned}$ | 1 | 1.1 (NE) | Early Mature | Major bark wound occluding. Light deadwood in crown. | $\begin{aligned} & 40+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 3.7 m . Area: 43 sq m . |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| T145 | Silver Maple | Tree | 11 | 480 | $\begin{aligned} & \mathrm{N}: 6 \\ & \mathrm{E}: 5 \\ & \mathrm{~S}: 4 \\ & \mathrm{~W}: 5 \end{aligned}$ |  | 0.4 | Mature | Basal growth. <br> Unable to access stem. <br> Epicormics on trunk <br> Light deadwood in crown. | $\begin{aligned} & 30+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 5.8 m . Area: 106 sq m. |
| T146 | Common Ash | Tree | 18 | 500 | $\begin{aligned} & \mathrm{N}: 6 \\ & \mathrm{E}: 6 \\ & \mathrm{~S}: 6 \\ & \mathrm{~W}: 6 \end{aligned}$ | 3 | 3(N) | Mature | Decay pockets on stem. Light deadwood in crown. | $\begin{aligned} & 40+ \\ & \text { Years } \end{aligned}$ | A2 | Radius: 6.0m. Area: 113 sq m. |
| T147 | Common Hawthorn | Hedge | 2.5 | 90 | $\begin{aligned} & \mathrm{N}: 1 \\ & \mathrm{E}: 1 \\ & \mathrm{~S}: 1 \\ & \mathrm{~W}: 1 \end{aligned}$ | 0 |  | Early Mature | Maintained hedge. | $\begin{aligned} & 40+ \\ & \text { Years } \end{aligned}$ | A2,3 | Area: 610 sq m. |
| T148 | Common Hawthorn | Hedge | 4 | 100 | $\begin{aligned} & \mathrm{N}: 2 \\ & \mathrm{E}: 2 \\ & \mathrm{~S}: 1 \\ & \mathrm{~W}: 2 \end{aligned}$ | 0 |  | Early Mature | Hedge maintained on farm side. Crown dieback in some sections. <br> Amenity value for road users | $\begin{aligned} & 40+ \\ & \text { Years } \end{aligned}$ | A2,3 | Area: 977 sq m. |
| T149 | Common Hawthorn Elm | Hedge | 4 | 120 | $\begin{gathered} \mathrm{N}: 1 \\ \mathrm{E}: 0.5 \\ \mathrm{~S}: 2 \\ \mathrm{~W}: 2 \end{gathered}$ | 0 |  | Early Mature | Includes small group of elm South end some dead. Hedge maintained on farm side | $\begin{aligned} & 40+ \\ & \text { Years } \end{aligned}$ | B2,3 | Area: 173 sq m. |
| T150 | Elder | Tree | 6 | 280 | $\begin{aligned} & \mathrm{N}: 3 \\ & \mathrm{E}: 2 \\ & \mathrm{~S}: 3 \\ & \mathrm{~W}: 2 \end{aligned}$ | 0 |  | Mature | Small group of trees. <br> Stems grafting over fence. <br> Trunk decay. <br> Light deadwood | $\begin{aligned} & <10 \\ & \text { years } \end{aligned}$ | C3 | Radius: 10.1 m . Area: 320 sq m. |


| Ref | Common Name | Structure | Height (m) | Stem Diam (mm) | Spread | Crown Clearance (m) | Lowest Branch | Life Stage | General Observations | Rem. Contrib. | Retention Category | RPA |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| T151 | Common Hawthorn | Tree | 4 | 150 | $\begin{gathered} \mathrm{N}: 2 \\ \mathrm{E}: 2 \\ \mathrm{~S}: 2 \\ \mathrm{~W}: 2 \end{gathered}$ | 0 |  | Mature | Low vitality. <br> Declining. <br> Trunk forks below 1.5 m . <br> Unable to access stem. <br> Light deadwood in crown. <br> Crown dieback. | $\begin{aligned} & <10 \\ & \text { years } \end{aligned}$ | C2 | Area: 21 sq m. |
| T152 | Blackthorn | Hedge | 2 | 30 | $\begin{gathered} \mathrm{N}: 2 \\ \mathrm{E}: 2 \\ \mathrm{~S}: 2 \\ \mathrm{~W}: 2 \end{gathered}$ | 0 |  | Semi Mature | Small section of unmanaged hedge | $\begin{aligned} & 40+ \\ & \text { Years } \end{aligned}$ | C2 | Area: 26 sq m. |
| T153 | Elder | Tree | 3 | 80 | $\begin{aligned} & \mathrm{N}: 1.5 \\ & \mathrm{E}: 1.5 \\ & \mathrm{~S}: 1.5 \\ & \mathrm{~W}: 1.5 \end{aligned}$ | 0 |  | Early Mature | Trunk forks below 1.5m. Light deadwood in crown. | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | C2 | Radius: 2.5 m . Area: 20 sq m. |
| T154 | Norway <br> Maple | Tree | 9 | 510 | $\begin{aligned} & \mathrm{N}: 6 \\ & \mathrm{E}: 5 \\ & \mathrm{~S}: 7 \\ & \mathrm{~W}: 7 \end{aligned}$ | 1 |  | Early Mature | Surface roots sustained damage. <br> Broken branches in crown. Light deadwood in crown. | $\begin{aligned} & 40+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 6.1 m . Area: 117 sq m. |
| T155 | Blackthorn | Hedge | 4.5 | 90 | $\begin{gathered} \mathrm{N}: 2 \\ \mathrm{E}: 2 \\ \mathrm{~S}: 2 \\ \mathrm{~W}: 3 \end{gathered}$ | 0 |  | Early Mature | Unmanaged hedge. <br> Overhead power cable will require long-term management | $\begin{aligned} & 40+ \\ & \text { Years } \end{aligned}$ | B2,3 | Area: 130 sq m. |
| T156 | Common Ash | Tree | 9 | 300, 340 | $\begin{aligned} & \mathrm{N}: 5 \\ & \mathrm{E}: 5 \\ & \mathrm{~S}: 5 \\ & \mathrm{~W}: 5 \end{aligned}$ | 3 |  | Early Mature | Trunk forks below 1.5m. Unable to access stem. Light deadwood in crown. Inclusive bark. Branches touching cable | $\begin{aligned} & 40+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 5.4 m . Area: 92 sq m. |


| Ref | Common Name | Structure | Height (m) | Stem Diam (mm) | Spread | Crown Clearance (m) | Lowest Branch | Life Stage | General Observations | Rem. Contrib. | Retention <br> Category | RPA |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| T157 | Elder Common Ash Hawthorn Blackthorn | Group | 7 | 180 | $\begin{aligned} & \mathrm{N}: 3 \\ & \mathrm{E}: 3 \\ & \mathrm{~S}: 3 \\ & \mathrm{~W}: 3 \end{aligned}$ | 0 |  | Mature | Mixed group including ash, elder, hawthorn, blackthorn. Some trees inaccessible due to undergrowth. Light deadwood in crown. Inclusive bark. | $\begin{aligned} & 30+ \\ & \text { Years } \end{aligned}$ | B2 | Area: 2005 sq m. |
| T158 | Cherry Plum | Tree | 8 | $\begin{gathered} 160,100,150 \\ 120, \\ 140 \end{gathered}$ | $\mathrm{N}: 4$ <br> E:4 <br> S:4 <br> W:4 | 0 |  | Mature | Trunk forks below1.5m. Unable to access stem. Light deadwood in crown. Inclusive bark. | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 3.6 m . Area: 41 sq m. |
| T159 | Hawthorn | Hedge | 4 | 90 | $\begin{gathered} \mathrm{N}: 1 \\ \mathrm{E}: 1.5 \\ \mathrm{~S}: 1 \\ \mathrm{~W}: 1.5 \end{gathered}$ | 0 |  | Early Mature | Maintained hedge includes field maple. <br> Trunk forks below 1.5m. Light deadwood in crown. Crown dieback. | $\begin{aligned} & 30+ \\ & \text { Years } \end{aligned}$ | B2,3 | Area: 150 sq m. |
| T160 | White Poplar | Tree | 19 | 430, 550 | $\begin{gathered} \mathrm{N}: 9 \\ \mathrm{E}: 9 \\ \mathrm{~S}: 5 \\ \mathrm{~W}: 7 \end{gathered}$ | 2.5 |  | Mature | Trunk forks below 1.5m. Decay pockets on stem. Light deadwood in crown. Inclusive bark. | $\begin{aligned} & <10 \\ & \text { years } \end{aligned}$ | C2 | Radius: 8.4 m . Area: 222 sq m. |
| T161 | White Poplar | Tree | 8 | 280 | $\begin{aligned} & \mathrm{N}: 9 \\ & \mathrm{E}: 3 \\ & \mathrm{~S}: 0 \\ & \mathrm{~W}: 4 \end{aligned}$ | 0 |  | Semi <br> Mature | Poor shape/form. Suppressed | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | C2 | Radius: 3.4 m . Area: 36 sq m. |
| T162 | White Poplar | Tree | 19 | 350,400 | $\begin{aligned} & \mathrm{N}: 5 \\ & \mathrm{E}: 8 \\ & \mathrm{~S}: 6 \\ & \mathrm{~W}: 9 \end{aligned}$ | 0 |  | Mature | Trunk forks below 1.5m. Inclusive bark. Broken branches in crown. Moderate deadwood in crown. Fungi at base | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | C2 | Radius: 6.4 m . Area: 129 sq m. |
| T163 | White Poplar | Tree | 20 | 270,400 | $\begin{gathered} \mathrm{N}: 9 \mathrm{E}: 8 \\ \mathrm{~S}: 7 \\ \mathrm{~W}: 8 \\ \hline \end{gathered}$ | 1 |  | Mature | Trunk forks below 1.5m. Decay pockets on stem. Light deadwood in crown. | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | C2 | Radius: 5.8 m . Area: 106 sq m. |


| Ref | Common Name | Structure | Height (m) | Stem Diam (mm) | Spread | Crown Clearance (m) | Lowest Branch | Life Stage | General Observations | Rem. Contrib. | Retention Category | RPA |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| T164 | Common Ash | Tree | 9 | 310,320 | $\begin{aligned} & \mathrm{N}: 5 \\ & \mathrm{E}: 5 \\ & \mathrm{~S}: 5 \\ & \mathrm{~W}: 5 \end{aligned}$ | 0 |  | Early Mature | Suppressed. <br> Trunk forks below 1.5m. | $\begin{aligned} & 40+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 5.4 m . Area: 92 sq m. |
| T165 | White Poplar x6 | Group | 25 | 550 | $\begin{gathered} \mathrm{N}: 10 \\ \mathrm{E}: 9 \\ \mathrm{~S}: 5 \\ \mathrm{~W}: 9 \end{gathered}$ | 1 |  | Mature | Poor shape/form. <br> Trunk forks below 1.5 m . <br> Decay pockets on stem. <br> Broken branches in crown. <br> Storm damage with shed limbs. <br> Moderate deadwood in crown. <br> Crown distorted due to group <br> pressure. <br> Inclusive bark. <br> Group of similar trees. <br> Some trees appear windblown but no access due to vegetation | $\begin{aligned} & 10+ \\ & \text { Years } \end{aligned}$ | C2 | Area: 664 sq m. |
| T166 | White Poplar | Group | 20 | 500 | $\begin{gathered} \mathrm{N}: 9 \\ \mathrm{E}: 10 \\ \mathrm{~S}: 9 \\ \mathrm{~W}: 8 \end{gathered}$ | 2 |  | Mature | Group of 3. Included bark present. Some self-set trees present Light deadwood in crown. Crowns distorted due to group pressure. | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | B2 | Area: 378 sq m. |
| T167 | White Poplar | Group | 18 | 600 | $\mathrm{N}: 10$ <br> E:10 <br> S:8 <br> W:9 | 0 |  | Mature | Poor shape/form. <br> Trunk forks below 1.5 m . <br> Decay pockets on stem. <br> Broken branches in crown. <br> Storm damage with shed limbs. <br> Inclusive bark. | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | B2 | Area: 634 sq m. |
| T168 | Willow | Group | 6 | 300 | $\begin{gathered} \mathrm{N}: 4 \\ \mathrm{E}: 4 \\ \mathrm{~S}: 4 \mathrm{~W}: 4 \end{gathered}$ | 0 |  | Early Mature | Trunk forks below 1.5 m . <br> Unable to access stem. <br> Dbh estimated from distance | $\begin{aligned} & 30+ \\ & \text { Years } \end{aligned}$ | C2 | Area: 446 sq m. |


| Ref | Common Name | Structure | Height (m) | Stem Diam (mm) | Spread | Crown Clearance (m) | Lowest Branch | Life Stage | General Observations | Rem. Contrib. | Retention Category | RPA |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| T169 | Common Ash | Tree | 15 | 520, 340, 480 | $\begin{gathered} \mathrm{N}: 12 \\ \mathrm{E}: 8 \\ \mathrm{~S}: 8 \\ \mathrm{~W}: 9 \end{gathered}$ | 1 | 1(S) | Mature | Trunk forks below 1.5 m . <br> Moderate deadwood in crown. Inclusive bark. <br> Multiple stems from ground level. <br> Basal growth. <br> Decay pockets on stem. | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 9.4m. Area: 278 sq m. |
| T170 | Pedunculate Oak | Tree | 4 | 300 | $\begin{aligned} & \mathrm{N}: 3 \\ & \mathrm{E}: 3 \\ & \mathrm{~S}: 3 \\ & \mathrm{~W}: 3 \end{aligned}$ | 0 | 1 (E) |  | Light deadwood in crown. Top possibly lost in past | $\begin{aligned} & \text { 40+ } \\ & \text { Years } \end{aligned}$ | B2 | Radius: 3.6 m . Area: 41 sq m. |
| T171 | Common Ash Wild Cherry Pyracantha Cotoneaster Elder | Group | 12 | 320 | $\begin{gathered} \mathrm{N}: 5 \\ \mathrm{E}: 5 \\ \mathrm{~S}: 5 \\ \mathrm{~W}: 5 \end{gathered}$ | 1.5 |  | Early Mature | Includes wild cherry Dense group of self-set trees with understorey of pyracantha, cotoneaster, elder. <br> Mutually suppressed. Light deadwood in crown. Crown distorted due to group pressure. Inclusive bark. | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | B2 | Area: $567 \mathrm{sq} \mathrm{m}$. |
| T172 | Mixed species | Group | 5 | 150 | $\begin{aligned} & \mathrm{N}: 3 \\ & \mathrm{E}: 3 \\ & \mathrm{~S}: 3 \\ & \mathrm{~W}: 3 \end{aligned}$ | 0 |  | Early Mature | Overgrown shrub bed. Unmanaged. | $\begin{aligned} & 10+ \\ & \text { Years } \end{aligned}$ | C2 | Area: $123 \mathrm{sq} \mathrm{m}$. |
| T173 | Common Holly Field Maple | Hedge | 4 | 100 | $\begin{gathered} \mathrm{N}: 1 \\ \mathrm{E}: 1.5 \\ \mathrm{~S}: 1 \\ \mathrm{~W}: 1.5 \end{gathered}$ | 0 |  | Early Mature | Includes field maple. Managed hedge. Light deadwood. Some gaps | $\begin{aligned} & 30+ \\ & \text { Years } \end{aligned}$ | C2,3 | Area: 179 sq m. |
| T174 | Common Hawthorn | Hedge | 4 | 180 | $\begin{gathered} \mathrm{N}: 1 \\ \mathrm{E}: 1.5 \\ \mathrm{~S}: 1 \mathrm{~W}: 1.5 \end{gathered}$ | 0 |  | Early Mature | Managed hedge. Not managed recently. Light deadwood. Includes Elder | $\begin{aligned} & 30+ \\ & \text { Years } \end{aligned}$ | C2,3 | Area: 127 sq m. |


| Ref | Common Name | Structure | Height (m) | Stem Diam (mm) | Spread | Crown Clearance (m) | Lowest Branch | Life Stage | General Observations | Rem. Contrib. | Retention Category | RPA |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| T175 | Common <br> Hawthorn Common Ash | Hedge | 6 | 250 | $\begin{gathered} \mathrm{N}: 3 \\ \mathrm{E}: 3 \\ \mathrm{~S}: 3 \\ \mathrm{~W}: 3 \end{gathered}$ | 1 |  | Early Mature | Unmanaged hedge, not maintained for a number of years. Light deadwood. Gaps in belt with brambles. | $\begin{aligned} & 30+ \\ & \text { Years } \end{aligned}$ | C2 | Area: 262 sq m. |
| T176 | Willow | Tree | 11 | 600 | $\begin{aligned} & \mathrm{N}: 5 \\ & \mathrm{E}: 5 \\ & \mathrm{~S}: 5 \\ & \mathrm{~W}: 5 \end{aligned}$ | 2 |  | Mature | Ivy on stem. <br> Unable to inspect stem due to ivy. Epicormics on trunk Light deadwood in crown. Lapsed pollard. | $\begin{aligned} & 40+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 7.2 m . Area: 163 sq m. |
| T177 | Blackthorn Hawthorn | Hedge | 5 | 300 | $\mathrm{N}: 1.5$ <br> E: 1.5 <br> S:1.5 <br> W:1.5 | 0 |  | Mature | Mixed hedge. <br> Mature blackthorn topped in past and regrowing. Includes hawthorn, brambles. Gappy | $\begin{aligned} & 20+ \\ & \text { Years } \end{aligned}$ | C2 | Area: 1148 sq m. |
| T178 | Elder | Group | 5 | 150.90.100.80 | $\begin{gathered} \mathrm{N}: 3 \\ \mathrm{E}: 3 \\ \mathrm{~S}: 3 \\ \mathrm{~W}: 3 \end{gathered}$ | 1.5 |  | Mature | Trunk forks below 1.5 m . Ivy on stem. Unable to inspect stem due to ivy. Light deadwood in crown. Crown dieback. Group of 11 forming a line. Inclusive bark present | $\begin{aligned} & 10+ \\ & \text { Years } \end{aligned}$ | C2 | Area: $7 \mathrm{sq} \mathrm{m}$. |
| T179 | Walnut | Tree | 5 | 190 | $\begin{gathered} \mathrm{N}: 3 \\ \mathrm{E}: 3 \\ \mathrm{~S}: 2 \\ \mathrm{~W}: 3 \end{gathered}$ | 1 |  | Semi <br> Mature | Leans north | $\begin{aligned} & 40+ \\ & \text { Years } \end{aligned}$ | C2 | Radius: 2.3m. Area: 17 sq m. |


| Ref | Common Name | Structure | Height (m) | Stem Diam (mm) | Spread | Crown Clearance (m) | Lowest Branch | Life Stage | General Observations | Rem. Contrib. | Retention Category | RPA |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| T180 | Common Ash | Tree | 14.0 | 410 | $\begin{aligned} & \mathrm{N}: 5 \\ & \mathrm{E}: 5 \\ & \mathrm{~S}: 5 \\ & \mathrm{~W}: 5 \end{aligned}$ | 1.5 | 2(SE) | Early Mature | Light deadwood <br> Bark wounds on trunk occluding <br> Multiple stems from 2 m Bark wounds in crown from vehicle strikes | $\begin{aligned} & 40+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 4.9 m . <br> Area: 75 sq m. |
| T181 | Pedunculate Oak | Tree | 14.0 | 520 | $\mathrm{N}: 4.5$ <br> E:5.5 <br> S:6 <br> W:4 | 11.0 | 2(SW) | Early Mature | Light deadwood <br> Bark wounds on trunk occluded Bark wounds in crown from vehicle strikes <br> Minor decay pockets in crown Crown suppressed on North side | $\begin{aligned} & 50+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 6.2 m . Area: 121 sq m. |
| T182 | Common Ash | Tree | 12.0 | 4450 | $\begin{gathered} \mathrm{N}: 5.5 \\ \mathrm{E}: 5 \\ \mathrm{~S}: 5 \\ \mathrm{~W}: 4.5 \end{gathered}$ | 2.0 | 2(NW) | Early Mature | Light deadwood <br> Minor new bark wounds on trunk Major Occluding bark wound on East side Bark wounds in crown from vehicle strikes | $\begin{aligned} & 40+ \\ & \text { Years } \end{aligned}$ | B2 | Radius: 5.3 m . Area: 88 sq m. |
| T183 | European Lime | Tree | 14.0 | 520 | $\begin{aligned} & \mathrm{N}: 5 \\ & \mathrm{E}: 5 \\ & \mathrm{~S}: 5 \\ & \mathrm{~W}: 5 \end{aligned}$ | 1.0 | 2(W) | Early Mature | Light deadwood Basal wound Occluding Heavy epicormic growth Exposed roots west side | $\begin{aligned} & 50+ \\ & \text { Years } \end{aligned}$ | A2 | Radius: 6.2 m . Area: 121 sq m. |
| T184 | Common Ash | Tree | 15.0 | 530 | $\begin{gathered} \mathrm{N}: 7 \\ \mathrm{E}: 6.5 \\ \mathrm{~S}: 7 \\ \mathrm{~W}: 7 \end{gathered}$ | 1.5 | 2(SW) | Mature | Occluding basal wounds on East side <br> Exposed surface roots west side Bark wounds on roots Light deadwood | $\begin{aligned} & 40+ \\ & \text { Years } \end{aligned}$ | A2 | Radius: 6.4 m . Area: 129 sq m. |
| T185 | European Lime | Tree | 15.0 | 630 | $\begin{aligned} & \mathrm{N}: 5.5 \\ & \mathrm{E}: 5.5 \\ & \mathrm{~S}: 5.5 \\ & \mathrm{~W}: 5 \end{aligned}$ | 1.0 | 1.5(NW) | Mature | Light deadwood Heavy epicormic growth Lower crown over access damaged by vehicle strikes Self grafted branches in crown | $\begin{aligned} & 50+ \\ & \text { Years } \end{aligned}$ | A2 | Radius: 7.6 m . Area: 181 sq m. |


| Ref | Common Name | Structure | Height (m) | Stem Diam (mm) | Spread | Crown Clearance (m) | Lowest <br> Branch | Life Stage | General Observations | Rem. Contrib. | Retention Category | RPA |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| T186 | Common Ash | Tree | 17.0 | 530 | $\begin{gathered} \mathrm{N}: 5 \\ \mathrm{E}: 6 \\ \mathrm{~S}: 5 \\ \mathrm{~W}: 5.5 \end{gathered}$ | 1.0 | 2.5(W) | Mature | Girdling root Light deadwood scattered throughout crown | $30+$ <br> Years | B2 | Radius: 6.4 m . <br> Area: 129 sq m. |
| T187 | Poplar | Tree | 1.0 | Not recorded |  |  |  |  | Tree felled Regrowth from stump |  | U | N/A |
| T188 | White Willow | Tree | 25.0 | 1330 | $\begin{gathered} \mathrm{N}: 7.5 \\ \mathrm{E}: 8 \\ \mathrm{~s}: 8.5 \\ \mathrm{~W}: 8 \end{gathered}$ | 1.0 | 3(E) | Mature | Multiple stems from 3.5 m <br> Light to moderate deadwood <br> throughout the crown <br> Prominent <br> Hanging broken branches in crown <br> Storm damage with shed limbs <br> Decay pockets in crown | $\begin{aligned} & 40+ \\ & \text { Years } \end{aligned}$ | A2,3 | Radius: 15.0m. Area: 707 sq m. |

Appendix 3: Tree Root Protection Area Distances

| Tree Ref | Name | Category | $\begin{gathered} \text { RPA } \\ \text { Radius (m) } \end{gathered}$ |
| :---: | :---: | :---: | :---: |
| T1 | Hawthorn | B3 | 1.2 |
| T2 | Common Oak | A2 | 11.88 |
| T3 | Pedunculate Oak | B3 | 10.56 |
| T4 | Pedunculate Oak | A2 | 12.84 |
| T5 | Pedunculate Oak | A2 | 9.84 |
| T6 | Common Oak | B3 | 7.8 |
| T7 | Common Oak | A2 | 11.4 |
| T8 | Common Oak | B2 | 15 |
| T9 | Ash | B2 | 10.2 |
| T10 | Common Ash | B2 | 4.56 |
| T11 | Common Ash | B3 | 4.56 |
| T12 | Common Ash | B3 | 7.24 |
| T13 | Common Ash | B3 | 9.19 |
| T14 | Common Ash | B3 | 4.92 |
| T15 | Common Ash | B3 | 7.31 |
| T16 | Common Ash | B3 | 8.35 |
| T17 | Common Ash | C2 | 3.84 |
| T18 | Common Ash | B3 | 7.8 |
| T19 | Common Ash | B3 | 5.62 |
| T20 | Common Ash | B3 | 7.13 |
| H21 | Common Hawthorn | A2 | 1.2 |
| T22 | Common Ash | C2 | 4.34 |
| T23 | Ash | B2 | 3.84 |


| T24 | Elm | U | 2.4 |
| :---: | :---: | :---: | :---: |
| H25 | Common Hawthorn | C2 | 0.8 |
| T27 | Common Ash | C2 | 1.44 |
| T28 | Common Ash | B2 | 3 |
| H30 | Common Hawthorn | C2 | 1.8 |
| T31 | Common Ash | B2 | 5.63 |
| T32 | Common Ash | C2 | 2.63 |
| T33 | Common Ash | C2 | 1.68 |
| G34 | Common Ash x7 | B2 | 4.67 |
| T35 | Pedunculate Oak | B2 | 6 |
| T36 | Pedunculate Oak | B2 | 7.2 |
| T37 | Common Ash x2 | B2 | 2.4 |
| T38 | Common Ash | B3 | 6.24 |
| T39 | Common Ash | B2 | 8.4 |
| T40 | Common Ash | B2 | 4.08 |
| T42 | Common Ash | B2 | 3.61 |
| T44 | Common Hawthorn | C2 | 0.96 |
| T45 | Common Hawthorn | C2 | 0.96 |
| T47 | Hornbeam | B2 | 3.71 |
| T48 | Willow | B2 | 4.08 |
| T49 | Cypress species | B2 | 4.8 |
| H50 | Common Hawthorn | C2 | 1.5 |
| T51 | Cherry Plum | B2 | 2.77 |
| T52 | Common Ash | B2 | 7.67 |
| G53 | Common Hawthorn | C2 | 1.68 |


| T55 | Common Ash | B2 | 7.9 |
| :---: | :---: | :---: | :---: |
| T56 | Common Ash | C2 | 4.56 |
| T57 | Common Ash | B2 | 5.3 |
| T58 | Common Ash | C2 | 3.28 |
| T59 | White Willow | B2 | 10.8 |
| H60 | Common Hawthorn | B2 | 1.4 |
| H61 | Elder | C2 | 1 |
| T62 | Common Ash | B2 | 6 |
| T63 | Common Ash | B2 | 12 |
| T64 | White Willow | C2 | 0.6 |
| T65 | White Willow | C2 | 6 |
| G66 | White Willow | B2 | 8.4 |
| T67 | Common Hawthorn | C2 | 1.68 |
| G68 | Sycamore x3 | C2 | 4.56 |
| T69 | Willow | B2 | 8.4 |
| T70 | Pear | B2 | 5.33 |
| G71 | Elm | C2 | 1.56 |
| T72 | Sycamore | C2 | 2.4 |
| T73 | Sycamore | C2 | 2.28 |
| T74 | Hornbeam | B2 | 3 |
| T75 | Norway Maple | B2 | 3.6 |
| T76 | Hornbeam | B2 | 3.56 |
| T77 | Common Ash | B2 | 7.44 |
| T78 | Sycamore | B2 | 6.12 |
| T79 | Hornbeam | B2 | 3.96 |


| T80 | Sycamore | B2 | 4.68 |
| :---: | :---: | :---: | :---: |
| T81 | Field Maple | B2 | 3 |
| T82 | Norway Maple | B2 | 3.84 |
| T83 | Sycamore | B2 | 4.8 |
| T84 | Sycamore | B2 | 6.36 |
| T85 | Sycamore | B2 | 5.88 |
| T86 | Sycamore | B2 | 5.52 |
| T87 | Common Ash | B2 | 4.08 |
| T88 | Common Ash | B2 | 3.6 |
| T89 | Field Maple | B2 | 6.82 |
| T90 | Common Ash | B2 | 5.64 |
| T91 | Common Ash | B2 | 6.36 |
| T92 | Common Ash | C3 | 7.44 |
| G94 | Common Ash | B2 | 4.44 |
| T95 | Pedunculate Oak | A2 | 8.4 |
| T96 | Common Ash | B2 | 4.08 |
| T97 | Common Ash | A2 | 7.56 |
| T98 | Sycamore | B2 | 4.2 |
| T99 | Common Ash | B2 | 5.04 |
| T100 | Common Ash | B2 | 4.8 |
| T101 | Common Ash | B2 | 4.2 |
| T102 | Cypress | B2 | 4.85 |
| T103 | Common Ash | B2 | 5.52 |
| T104 | Common Ash | B2 | 3.38 |
| T105 | Pedunculate Oak | B2 | 16 |


| H106 | Elm | B2 | 2.3 |
| :---: | :---: | :---: | :---: |
| G107 | Norway Maple | B2 | 4.56 |
| T108 | White Poplar | B2 | 7.08 |
| G109 | Hornbeam x5 | B2 | 4.32 |
| G110 | Lime x16 | B2 | 4.32 |
| G111 | Not identified | A2 | 10.92 |
| T112 | Horse Chestnut | B2 | 4.8 |
| G113 | Swedish | B2 | 4.44 |
| G114 | Not identified | B2 | 5.4 |
| G115 | Not identified | B2 | 4.32 |
| T116 | Not identified | B2 | 3.6 |
| G117 | Not identified | B2 | 2.88 |
| G118 | Not identified | B2 | 3.96 |
| H119 | Not identified | B2 | 3.5 |
| G120 | Not identified | B2 | 4.8 |
| H121 | Not identified | B2 | 1 |
| T122 | Pedunculate Oak | B2 | 12 |
| T123 | Horse Chestnut | B2 | 6.36 |
| T124 | Swedish | B2 | 3.24 |
| T125 | Small-leaved Lime | B2 | 3.48 |
| T126 | Wild Cherry | U | 3.72 |
| T127 | Small-leaved Lime | A2 | 6.96 |
| T128 | Horse Chestnut | A2 | 7.32 |
| T129 | Small-leaved Lime | B2 | 5.04 |
| T130 | Small-leaved Lime | B2 | 5.88 |


| T131 | Pedunculate Oak | A2 | 9.48 |
| :---: | :---: | :---: | :---: |
| T132 | Common Alder | C2 | 1.2 |
| T133 | Common Alder | C2 | 1.44 |
| T134 | Aspen | C2 | 3.6 |
| T135 | Norway Maple | B2 | 4.68 |
| T136 | Pedunculate Oak | B2 | 3.48 |
| T137 | Common Ash | B2 | 3 |
| T138 | Field Maple | C2 | 1.96 |
| H139 | Common Hawthorn | B2 | 1.2 |
| T140 | Common Ash | B2 | 4.8 |
| T141 | Sycamore | B2 | 4.56 |
| H142 | Common Hawthorn | B2 | 1.5 |
| T143 | Swedish Whitebeam | B2 | 3.48 |
| T144 | Swedish Whitebeam | B2 | 3.72 |
| T145 | Silver Maple | B2 | 5.76 |
| T146 | Common Ash | A2 | 6 |
| H147 | Common Hawthorn | A2 | 1.2 |
| H148 | Common Hawthorn | A2 | 1.2 |
| H149 | Common Hawthorn | B2 | 1.2 |
| G150 | Elder | C3 | 3.36 |
| G151 | Common Hawthorn | C2 | 1.8 |
| T153 | Elder | C2 | 0.96 |
| T154 | Norway Maple | B2 | 6.12 |
| H155 | Blackthorn | B2 | 1 |
| T156 | Common Ash | B2 | 5.44 |


| G157 | Elder | B2 | 2.16 |
| :---: | :---: | :---: | :---: |
| T158 | Cherry Plum | B2 | 3.64 |
| H159 | Hawthorn | B2 | 1 |
| T160 | White Poplar | C2 | 8.38 |
| T161 | White Poplar | C2 | 3.36 |
| T162 | White Poplar | C2 | 6.38 |
| T163 | White Poplar | C2 | 5.8 |
| T164 | Common Ash | B2 | 5.35 |
| G165 | White Poplar x6 | C2 | 6.6 |
| G166 | White Poplar | B2 | 6 |
| G167 | White Poplar | B2 | 7.2 |
| G168 | Willow | C2 | 3.6 |
| T169 | Common Ash | B2 | 9.42 |
| T170 | Pedunculate Oak | B2 | 3.6 |
| G171 | Common Ash | B2 | 3.84 |
| G172 | Mixed species | C2 | 1.8 |
| H174 | Common Hawthorn | C2 | 2.2 |
| H175 | Common Hawthorn | C2 | 3 |
| T176 | White Willow | B2 | 7.2 |
| H177 | Blackthorn | C2 | 3.6 |
| T178 | Elder | C2 | 2.32 |
| T179 | Walnut | C2 | 2.28 |
| T180 | Common Ash | B2 | Radius: 4.9m. Area: 75 sq m. |
| T181 | Pedunculate Oak | B2 | Radius: 6.2 m . Area: 121 sqm . |
| T182 | Common Ash | B2 | Radius: 5.3 m . Area: 88 sq m . |


| T183 | European Lime | A2 | Radius: 6.2 m. <br> Area: 121 sq m. |
| :---: | :--- | :---: | :---: |
| T184 | Common Ash | A2 | Radius: 6.4 m. <br> Area: 129 sq m. |
| T185 | European Lime | A2 | Radius: 7.6 m. <br> Area: 181 sq m. |
| T186 | Common Ash | B2 | Radius: 6.4 m. <br> Area: 129 sq m. |
| T187 | Poplar | U | N/A |
| T188 | White Willow | A2,3 | Radius: 15.0 m. <br> Area: 707 sq m. |


















## love every drop anglianvater o

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https://infrastructure.planninginspectorate.gov.uk/projects/eastern/cambri dge-waste-water-treatment-plant-relocation/

