CMK

Horticulture & Arboriculture Ltd.

Arboricultural Assessment and Arboricultural Impact

Limekiln, Orwell, Rossmore, Whitehall, Wellington Roads and Wellington Lane, Templeogue, Dublin 6W

Project No.	TWEL002	**Date**	31/08/22
Project Name	Limekiln Road/Templeogue wood Road/Rossmore Road/ Whitehall Road, Wellington Road and Wellington Lane upgrade	**Revision**	B

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Arboricultural Assessment

Executive summary

Management of trees within the survey area has been limited overall. The need for crown clearance for overhead utility line management has led to many instances of crown reductions and alterations resulting in misshapen trees with reduced long-term potential. The regular damage caused from mower impacts to tree trunks and surface roots is unfortunate and unnecessary and also reduces the long-term potential of many trees within grass verges. There does not appear to be a systematic tree management scheme in place which would lead to appropriate tree care. The result is that there are many instances where inappropriate management is reducing the long-term potential of trees.

The most successful planting schemes have been where space is available for trees to mature and where species/cultivar selection has been appropriate. The use of elm cultivars along sections of Wellington Road and Wellington Lane has been successful but mower impact damage has reduced the value and long-term potential of many of these trees.

For the proposed cycle scheme upgrade, of the 440 surveyed trees, 92 of which will need to be removed to facilitate the proposed work; 20.9% of trees excluding 17 that have failed or are in a state of advanced decline.

Through consultation with the DBFL design team, revisions to proposed works have been adapted to minimise impacts on trees.

Image 1. Site overview with red line outline of survey boundary located at Limekiln Road, Templeogue, Dublin.

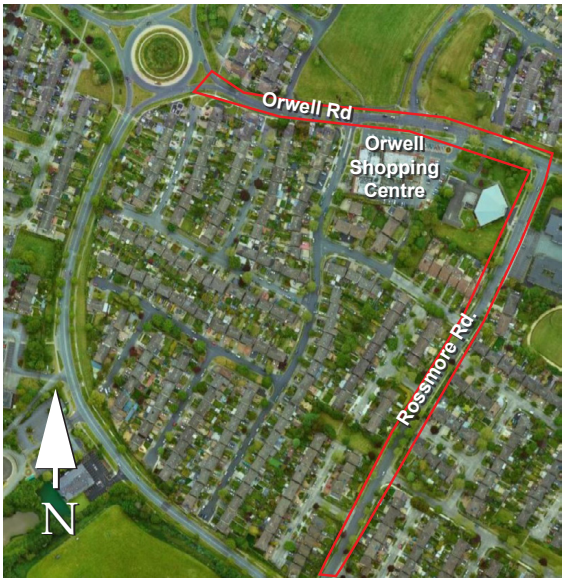

Image 2. Site overview with red line outline of survey boundary located at Orwell Road and Rossmore Road, Templeogue, Dublin.

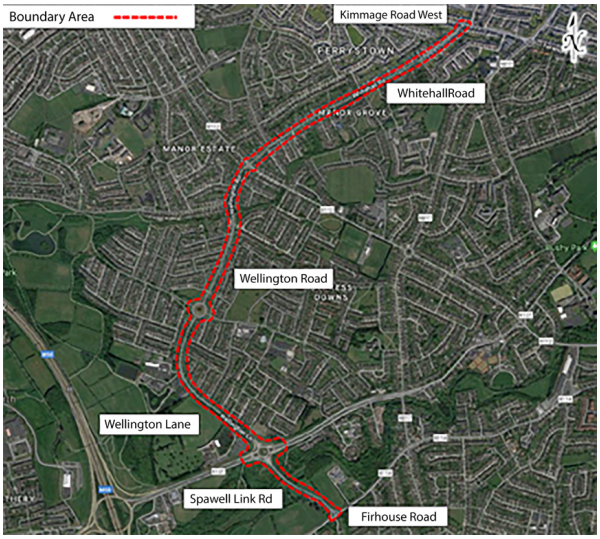

Image 3. Site overview with red line outline of survey boundary located at Whitehall, Wellington Roads and Wellington Lane, Templeogue, Dublin.

1.1 Client Brief & Methodology

CMK Hort + Arb Ltd. were commissioned by DBFL on behalf of South Dublin County Council to undertake an assessment of trees along the route of a proposed cycle scheme from Whitehall Road to the intersection of Wellington Lane with the R114 (image 3). The fieldwork was undertaken between the 9th and 29th of May 2019. Section 1.4 details trees on these roads.

Additional surveys were requested for trees located adjacent to the Orwell, Rossmore (Section 1.3) and Limekiln Roads (Section 1.2) in Templeogue, Dublin 6W. This fieldwork was undertaken between the 1st and 16th of November 2021 (images 1&2).

The survey methodology and documentation follow the recommendations contained within BS 5837 (2012). The analysis of the trees was undertaken using the VTA methodology as developed by Mattheck and Breloer (1994).

1.2 General description of trees on Limekiln Road

A total of 52 trees were identified and assessed (image 1). The condition of the trees is a generally good; with a high spread of trees within categories B & A (table 1). The condition and categorisation of individual trees is contained within appendix I of this report. The locations and categorisations of trees are shown on drawings TWEL002 101-104.

Category	Number	% of total
A	13	25%
B	33	63.4%
C	4	7.8%
U	2	3.8%

Table 1. Tree Category breakdown (see page 27 for tree category explanations).

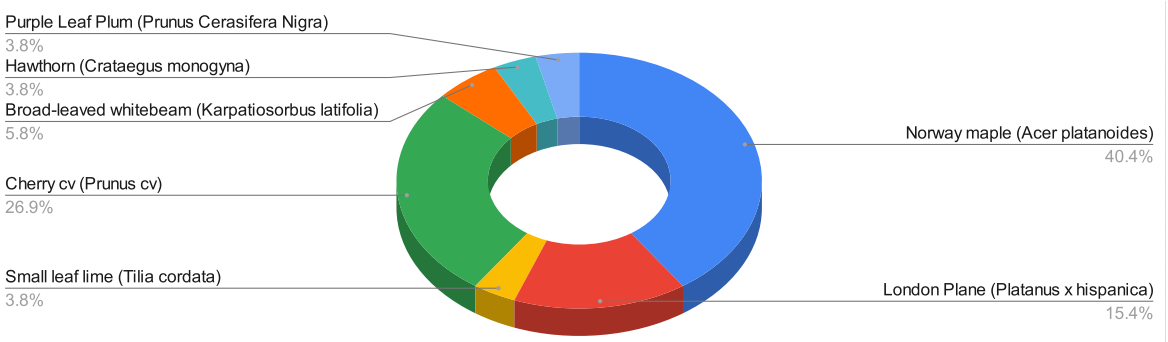

Chart 1. Species breakdown of trees within the survey area on Limekiln Road.

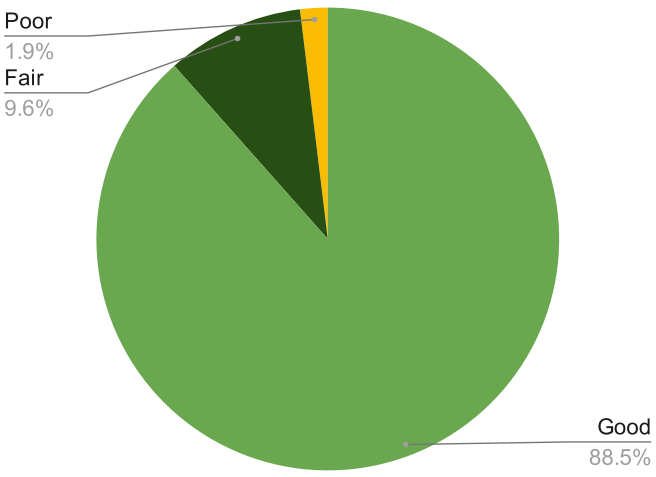

Chart 2. Tree vigour breakdown of trees within the survey area on Limekiln Road.

The majority of tree species located within this section of the site (82%) are London Plane (*Platanus* x *hispanica*), Norway maple (*Acer platanoides*) and Cherry cv (*Prunus* cv) (image 4). Chart 1 provides a detailed species breakdown.

The main impact on trees (>10%) is mower damage to surface roots. Damage to exposed roots from mower activity was noted in over 10% of assessed trees, which is know to reduce long term potential. This effects all trees along the surveyed route, though is more prevalent for cherry trees east of Riverview National School (image 5).

Many of the larger trees (London plane and Norway maple) have had roadside canopies reduced to facilitate buses and high sided vehicles, which has reduced the visual and structural integrity of these trees with the result in their long-term potential is reduced.

Fewer management inputs have been required for smaller specimens located within the eastern section of the surveyed route (image 6), where these trees that have a less expansive canopies and increased long-term potential as a result.

Image 4. Mature London plane (#525) located on the northern side of Limekiln Rd.

Image 5. Cherry trees (#547-548) located on the southern side of Limekiln Rd.

Image 6. Cherry, hawthorn and Norway maple on the eastern end of Limekiln Rd.

1.3 General description of trees on Orwell, Rossmore and Templeogue Wood roads

A total of 67 trees were identified and assessed (image 2). The condition of the trees is a generally moderate, with the majority of trees in category B (table 2). The condition and categorisation of individual trees is contained within appendix II of this report. The locations and categorisations of trees are shown on drawings TWEL002 105-108.

The majority of tree species located within this section of the overall survey (67%) are Norway maple (*Acer platanoides*) (image 7) and Cherry cv (*Prunus* cv) (image 8). Chart 3 shows a detailed species breakdown.

Pavement heave was noted adjacent to mature London plane (*Platanus x hispanica*) (#856, 858 & 865), where existing pavement exhibits cracks or sections of pavement has been replaced close to trunks.

Category	Number	% of total
A	19	28.4%
B	35	52.2%
C	12	17.9%
U	1	1.5%

Table 2. Tree Category breakdown (see page 27 for tree category explanations).

Many of the larger trees (London plane and Norway maple) have had roadside canopies reduced to facilitate buses and high sided vehicles along Rossmore Road. This has resulted in an opening up of canopies that expose these trees to decay at pruning points and increased potential for storm damage.

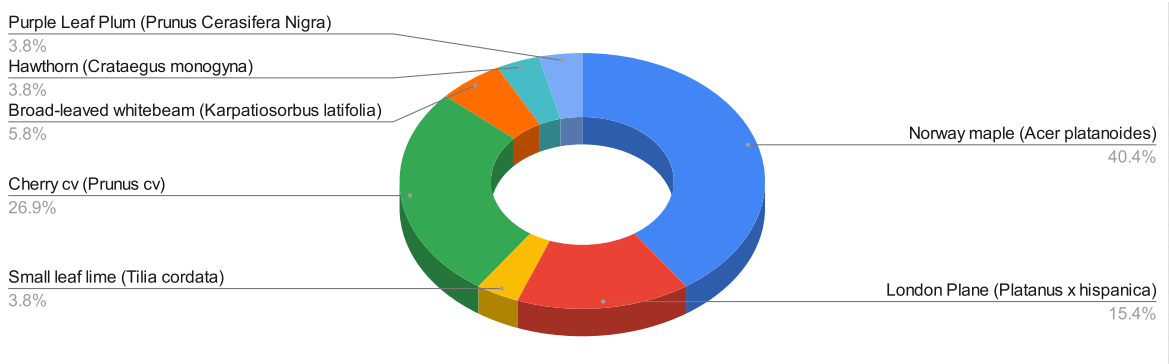

Chart 3. Species breakdown of trees within the survey area on Orwell and Rossmore Roads.

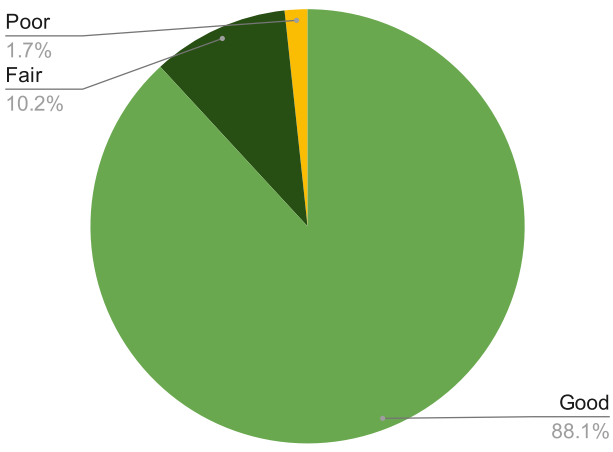

Chart 4. Tree vigour breakdown within the survey area on Orwell and Rossmore Roads.

Image 7. Norway maple (#829) at the western end of Orwell Road.

Image 8. Cherry and Norway maple 'Crimson King' the Rossmore Road before the junction with Wellington Lane.

Image 9. Norway maple (#844) and London plane (#845) on Rossmore Road.

Image 10. Detail of London plane (#836) exhibiting jelly ear (*Auricularia auricula-judae*) fungal fruiting bodies.

1.4 General description of trees on Whitehall Road, Wellington Road and Wellington Lane

A total of 379 trees were surveyed within the red-line boundary (image 1). Hedges were also included within the assessment. The general description of both the trees and hedges is included within individual sections of the survey area. Individual tree assessments are detailed within appendix III. The locations and categorisations of trees are shown on drawings TWEL002 109-118.

The trees are located within paving and grass verges on roadsides, roundabouts and small open space areas. There is a relatively wide range of species and cultivars represented reflecting different phases of planting along the route. With very few exceptions the trees are between the young to early-mature age classes though there are groups of trees which have developed into large specimens and are bordering on the mature age class due to their size. The condition of the trees is generally good (table 3) with over 74% within the high value categories B & A.

The hedges appear to be designed to soften hard features such as walls. They range in age from young to mature.

Category	Number	% of total
A	16	4.2%
B	269	71.0%
C	80	21.1%
U	14	3.7%

Table 3. Tree Category breakdown (see page 27 for tree category explanations).

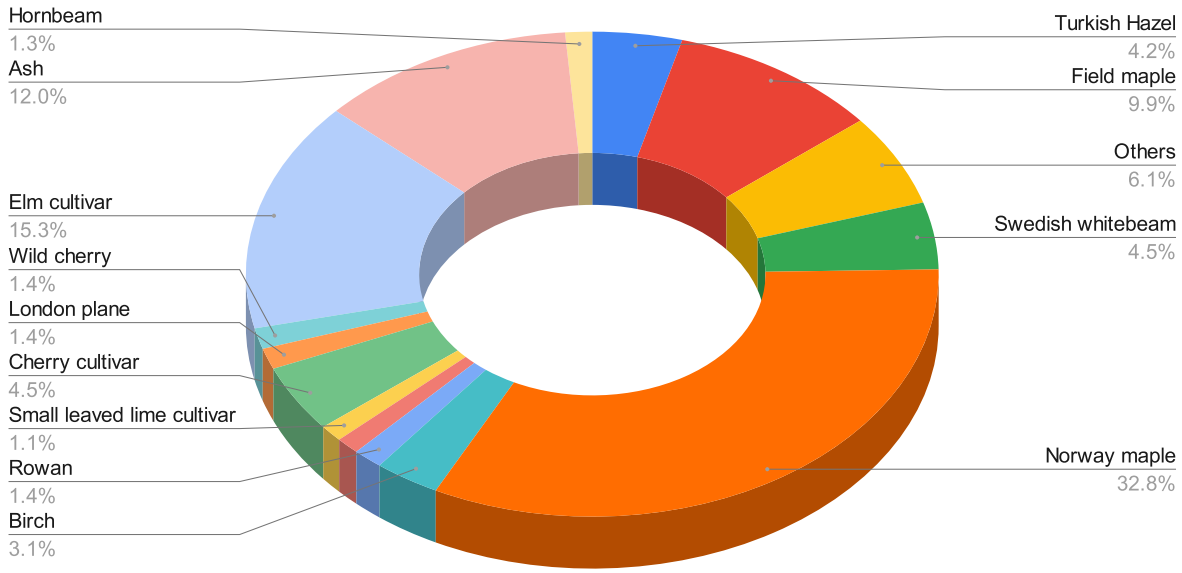

Chart 4. Tree species breakdown of tree within the survey area on Whitehall Road, Wellington Road and Wellington Lane.

Tree planting on Whitehall Road covers a range of different location types from narrow pavements where future tree growth will not be possible to wide verges adjacent to housing developments such as Priory Walk Manor Grove where space has resulted in high value trees with long-term potential.

The open space area near the Whitehall Road roundabout contains a relatively large number of trees which have high landscape value. Some storm damage has occurred to a number of trees in this location. A degree of this damage could have been countered by managing the trees appropriately during their early development. This would include early identification of potentially structurally weak points in the trees with appropriate actions taken.

In terms of the tree stock within the survey area immediate management actions should be the removal of category U trees outlined within this report. Also of priority would be the removal of lower limbs with potential to be hazardous to pedestrians and vehicles.

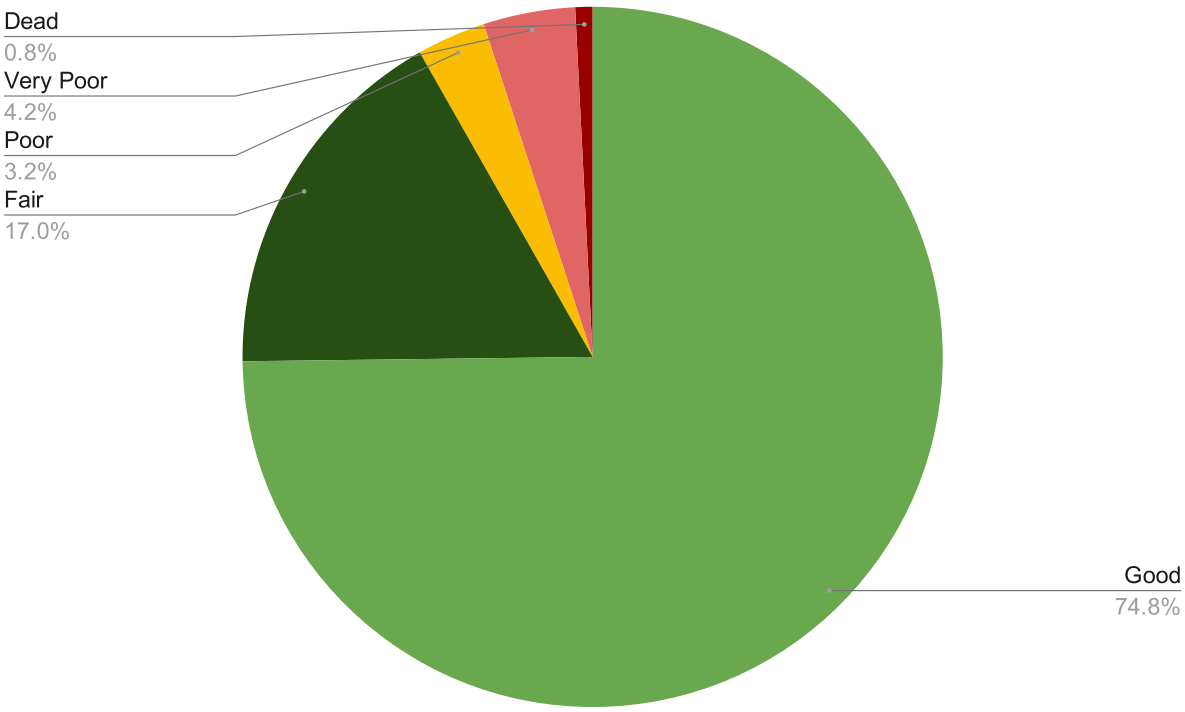

Chart 5. Tree vigour breakdown within the survey area on Whitehall Road, Wellington Road and Wellington Lane.

Image 11. Section 1 Terenure Road West to Rockfield Drive

1.3 Section 1. Whitehall Road

The predominant tree species within section 1 of the proposed route are young field maple (*Acer campestre*), Turkish hazel (*Corylus avellana*) with occasional early mature birch (Betula pendula) and mature specimens of cherry cultivars (Prunus cv). The quality of the trees is mixed. A group of Turkish hazel located within a wide grass verge adjacent to 1-19 Priory Walk Manor Grove have developed well (image 11) and have good long-term potential.

Many of the remaining trees are located within narrow footpaths with limited space for future development therefore their long-term potential is limited (image 12).

Crown management to facilitate overhead utility services has reduced the visual and structural integrity of many of the trees with the result that their long-term potential is reduced (image 13).

The use of cherry is not now recommended as the surface roots of these trees tend to lift adjacent paving. The wide spreading crown form of the cultivars represented here are unsuited to roadside locations with the result that necessary pruning reduces the visual quality of the trees and may lead to their early decline (image 14).

Image 12. Turkish hazel adjacent (Priory Walk Manor Grove).

Image 13. Typical view of field maple on Whitehall road. Note narrow footbath and lower crown reduction over road to facilitate traffic and crown reductions to trees in background to facilitate utility services.

Image 14. Typical view of cherry cultivar on Whitehall road. Note wide spreading crown habit which is unsuited to locations adjacent to public roads.

Image 15. Section 1 Section 1 Whitehall Road

1.3 Section 2. Whitehall Road

The trees within section 2 of the site (image 15) are located within a wide grass verge adjacent to Priory Way Manor Grove and within narrow pavements. The former are mainly early-mature Norway maple (*Acer platanoides*) which have developed well (image 16). Trees within the narrow pavements include whitebeam (*Sorbus aria*), birch, field maple and a mature London plane (*Platanus acerifolia*). Most have performed reasonably well overall but issues of limited room for future development and crown management to facilitate overhead utility services has reduced the visual quality of trees and their long-term potential (image 17). Future crown management to facilitate traffic will be necessary further reducing the visual and possible structural integrity of the trees effected.

Image 16. Norway maple within a wide verge. Note the well developed crown resulting from what appears to be a good root environment.

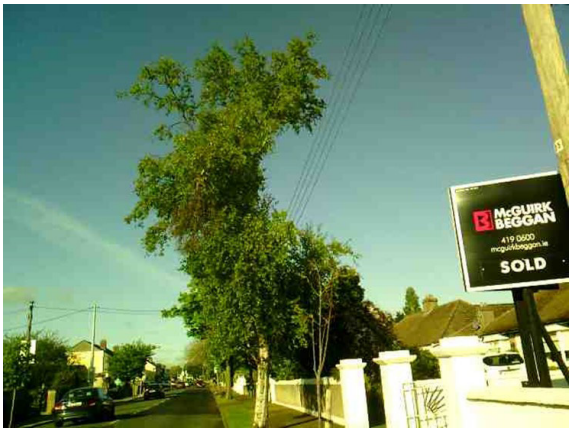

Image 17. Birch with crown reduction to facilitate utility line clearance.

The London plane is a one off and obviously originates from a much earlier planting than all the other trees on the road (image 18). London plane can develop into large imposing trees and typically represent challenges in terms of pavement management. This is the case here with bulging to the kerb and verge (image 19).

Image 18. Mature London plane on Whitehall Road

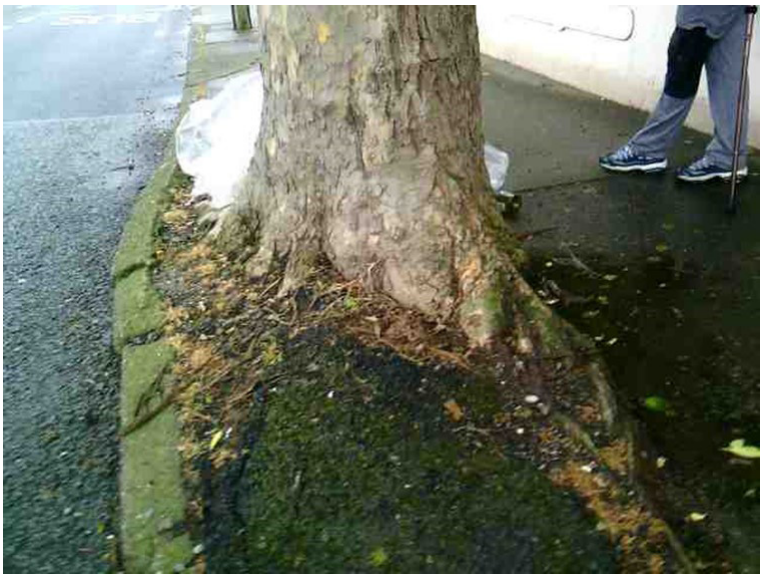

Image 19. Base of London plane within paving on Whitehall Road. Note bulging of kerbing and verge

There are a number of hornbeam (*Carpinus betulus*) (image 20), whitebeam (image 21), and cherry cultivars toward the top of Whitehall Road and along Templeville Road. With the exception of the cherry the visual and structural quality of these trees is generally good. This is most likely the result of adequate rooting environments and lack of overhead utility services necessitating crown management.

Image 20. Hornbeam within grass verge on Templeville Road

Image 21. Whitebeam within grass verge on Templeville Road

Image 22. Section 3 Wellington Road

1.3 Section 3. Wellington Road

The trees within section 3 (image 22) of the site are located within a small public open space adjacent to Wellington Park, grass verges and a planted boundary to a new housing development.

The range and quality of the trees is mixed. The open space area appears to have incorporated a hedgerow with cherry (*Prunus spp*) supplemented by additional ornamental planting including purple leaved cherry (*Prunus cerasifera* 'Nigra') (image 23). There are also plantings of Norway maple and whitebeam within verges that have developed well (image 24).

Image 23. Open space area at northern end of Wellington Road

Image 24. Norway maple within grass verge at northern end of Wellington Road

A number of poor quality trees located within narrow verges at Wellington park have not developed well. This is most likely to poor rooting environments (images 25 & 26).

Image 25. Poor quality specimen within grass verge at Wellington Park

Image 26. Poor quality specimen within grass verge at Wellington Park

New tree planting associated with a housing development on the western side of the road has been very poorly undertaken with the result that the trees are failing (image 27).

An elm cultivar (Ulmus cv) has been planted extensively along Wellington Road and has generally performed well (image 28). However, mower impact damage is a regular occurrence with extensive areas of bark loss as a result (image 29). This damage which has occurred over a number of years will inevitably lead to decay development with trees potentially becoming hazardous as a result.

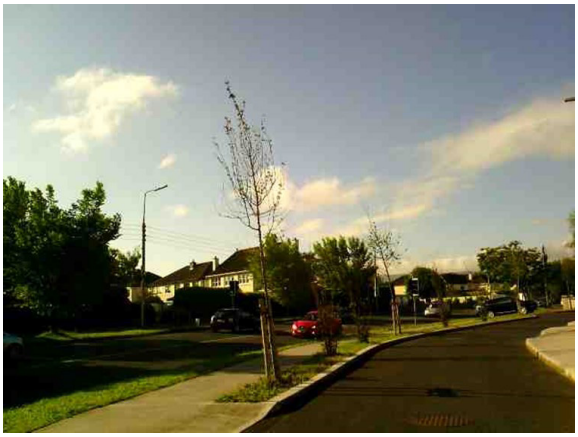

Image 27. Poor quality specimen within grass verge at Wellington Park

Image 29. Mower impact damage to elm cultivar on Wellington Road

Image 28. Elm cultivar within grass verge on Wellington Road

There are two hedges within this section of the site. They are numbered #1 & 2 with their locations shown within drawings TWEL001 109-118.

Hedge #1 (image H1) is located on the eastern side of Wellington Road and is composed of a firethorn cultivar (*Pyracantha* cv) up to 3m high. It is well maintained and forms a dense hedge. Hedge #2 (image H2) is a relatively well maintained cotoneaster (*Cotoneaster* cv) hedge up to 1.25m.

Image H1. Firethorn hedge eastern side of Wellington Road

Image H2. Cotoneaster hedge on western side of Wellington Road adjacent to Willington Grove.

Image 30 Section 4. Wellington Lane

1.3 Section 4. Wellington Lane

The trees within section 4 of the site are located within grass verges along Wellington Lane, Rossmore Road, and within a small planted area adjacent to Templeogue Cemetery. The main tree species represented are elm cultivars (image 31) within the grass verges on Wellington Lane with very occasional willow (*Salix alba*), pedunculate oak (*Quercus robur*), and hybrid black poplar (*Populus nigra cv*) on the eastern side of the road within small open space areas (image 30). A fastigiate hornbeam and a London plane are located within verges on Rossmore Road. The planted area beside Templeogue cemetery is mainly populated by ash (*Fraxinus excelsior*) and Norway maple.

Image 31. Elm cultivar within grass verge on Wellington Road

Image 32. Poplar located adjacent to boundary wall of residence backing onto Wellington Lane

A number of the trees within the small open space areas along Wellington Lane are currently or have the potential to impact on the boundary walls of homes (image 32). The condition of the trees is generally good however mower impact damage to surface roots and trunks is common for the trees within the verges and will inevitably lead to decay development (image 33). These trees are impacting on adjoining paving in a number of locations resulting in repairs to the paving being undertaken in places.

The trees within the planted area adjacent to Templeogue cemetery have not been managed adequately with the result that many are drawn due to competition (image 34). Their future management would benefit from the selective thinning.

Image 33. Mower impact damage to surface roots of elm within grass verge on Wellington Lane. Note repair work to paving at base on image.

Image 34. Trees within planted area adjacent to templeogue cemetery

There are three hedges within this section of the site. They are numbered #3, 4 & 5 with their locations shown within drawing TWEL001 109-118.

Hedge #3 (image H3) is located on the western side of Wellington Lane and is composed of a low beech hedge (*Fagus sylvatica*) up to 0.5m with occasional shrubs such as eleagnus and firethorn cultivars. There are also a number of hedges within private gardens overhanging the boundary walls in places (image H3).

Hedge #4 is a low beech hedge up to 0.5m. It is well maintained and full for most of its length (image H4).

Hedge #5 is a mixed species hedge including Grisellinia (*Grissellinia littoralis*) and firethorn. It is well maintained and provides as soft screen to the boundary walls of properties in this area.

Image H3. Firethorn hedge western side of Wellington Lane

Image H4. Beech hedge eastern side of Wellington Lane

Image H5. Mixed species hedge at intersection of Rossmore Road and Wellington Lane.

Section 2. Arboricultural Impact and Mitigation

Impacts were considered in line with South Dublin Country Councils recommendations (4.3.4 Removal of Trees: To make way for any approved engineering or building works when unavoidable construction work will immediately compromise the stability or viability of the tree).

2.1 Impact on trees located on Limekiln Road

Road widening will necessitate the removal of 10 existing trees. Eight of these are mature cherries, one a mature hawthorn and one a purple leaf plum. Two trees have failed (#543, 559) are are recommended to be removed in the interest of sound arboricultural practice.

Category	No.	% of total	% of category
A	0	0%	0%
B	10	44.2%	43.5%
C	0	0%	0%
U	2	6.5%	100%

Table 4. Tree Removal Categories

Road widening will remove over a metre of the grass verge area near tree roots, intruding into up to 50% of the RPA (Root Protection area). This will effect the structural integrity of the root system by severing larger, lateral-growing roots that allow for stability.

While the Norway maples present would have good longer term potenial remaining, these mature cherries would be nearing veteran staus and would require replacment in the next 10-20 years. There longevity being futhrer reduced by adverse reactions from mower damage.

Refer to impact drawings TWEL002 119-144.

Section 2. Arboricultural Impact and Mitigation

2.2 Impact on trees located on Orwell, Rossmore and Templeogue Wood roads

Category	No.	% of total	% of category
A	3	4.5%	16.6%
B	6	8.9%	16.6%
C	1	1.5%	8.3%
U	1	1.5%	100%

Table 5. Tree Removal Categories

Road widening will necessitate the removal of eight existing trees. Four mature London plane on the eastern end of the Orwell Road before the turn onto Rossmore Road adjacent to where the existing bus stop is located (#836, 837, 839 & 840). A fifth, a mature hornbeam, will require removal at the southern end of Rossmore road (#886) due to poor condition.

The mature London plane (#836) exhibits fungal growth between stem unions (image 10, Pg 7), a weak point on trees which is likely to reduce its long term potential.

Proposed pathways/cycle paths will intrude within the RPA (Root Protection Area) of a mature Norway maple (#829) and London plane (#838). For both of these cases, to protect roots and minimise impact on the these trees it is recommend to excavate with airspades during construction and the use of cellweb where it is possible to build-up over existing roots.

A chief consideration regarding the retention of existing trees pertain to the protection of tree roots. Root growth is inhibited beneath roadways as they present effective barriers for root growth. This has the effect of promoting growth into open soil areas, such as grass verges, and to a lesser extent under paved footpaths.

This means that where roots are expected to be located within grass verges and near roadways, the verges will be expected to contain a greater mass of root volume. To protect existing trees the preservation of these verges areas must be considered. Appendix V: Arboricultural Method Statement (Pg 85), outlines best practices when constructing near tree root zones.

This route contains many younger trees that have the potential to resist disturbance to their root structure. If consideration is applied during works, these trees have good potential to recover from root loss, particularly in areas where potential root damage is only affecting one side of the tree and less than 20% of total root area.

Refer to impact drawings TWEL002 119-144.

Section 2. Arboricultural Impact and Mitigation

2.3 Impact on trees located on Whitehall Road, Wellington Road and Wellington Lane

Road widening will necessitate the removal of 74 existing trees. Another 14 have failed or are in decline and are recommended to be removed in the interests of sound arboricultural practice.

Category	No.	% of total	% of category
A	3	0.9%	20%
B	63	18.5%	23.6%
C	7	2.1%	16.3%
U	14	4.1%	100%

Table 6. Tree Removal Categories

Proposed pathways/cycle paths will intrude within the RPA (Root Protection Area) of trees (#1928, 1929, 1854). For these cases, to protect roots and minimise impact on the these trees it is recommend to excavate with airspades during construction and use of cellweb where it is possible to build-up over existing roots.

Proposed footpath paving will necessitate the removal of 50% of hedge #3 (image H3; pg 20), located south of the Osprey Rd/Orwell Rd roundabout. This is a low beech hedge (*Fagus sylvatica*) up to 0.5m with occasional shrubs such as eleagnus and firethorn cultivars. None of the other surveyed hedges will be impacted.

Proposed works within this section (Whitehall Road, Wellington Road and Wellington Lane) have the greatest impact on existing trees. Through consultation with the DBFL design team, revisions to proposed works have been adapted to minimise these impacts on trees.

Appendix V: Arboricultural Method Statement (Pg 85), outlines best practices when constructing near tree root zones. Refer to impact drawings TWEL002 119-144 for locations of impacted trees.

APPENDIX 1: INDIVIDUAL TREE ASSESSMENT OF TREES ON LIMEKILN ROAD

Tag Number	Species	Age class	Category	Vigor	Comments	Preliminary Recommendations	Long Term Potential	DBH (mm)	Height (meter)	Crown spread NESW (meter)	Clear Stem (meter)
511	Norway maple (*Acer platanoides*)	Mature	B2	Good	Located within a 6m grass verge on the Limekiln Road. Minor branch congestion that is not significant at present in lower canopy. Exposed root damage west that may reduce long term potential.	No action necessary	20-30	310	11.5	3.5;3;2.5;2.5	2.5s
512	Norway maple (*Acer platanoides*)	Early mature	B2	Good	Located within a 6m grass verge on the Limekiln Road. Minor damage to bark of exposed roots from mower activity 1m north which is not significant at present. Well developed with no visible defects.	No action necessary	30-40	270	10	2:2.5;3;2.5	2s
513	London Plane (*Platanus* x *hispanica*)	Mature	A2	Good	Located within a 6m grass verge on the Limekiln Road. Well developed mature specimen. Minor light suppressed hanging deadwood east at 4m. Branch of 10mm diameter east with bark damage over driveway. No other visible defects.	Remove hanging deadwood and branch over driveway east.	40	560	16	6;7;5;6	4s
514	Norway maple (*Acer platanoides*)	Early mature	B2	Good	Located within a 6m grass verge on the Limekiln Road. Relatively well developed with no visible defects.	No action necessary	30-40	260	10	2.5;2;2;2	3n
515	Small leaf lime (*Tilia cordata*)	Early mature	B2	Good	Located within a 6m grass verge on the Limekiln Road. Planted deep with no root flare visible. Relatively well developed.	Expose root flare	20-30	170	6	1.5;2;2;1	1.5s

APPENDIX 1: INDIVIDUAL TREE ASSESSMENT OF TREES ON LIMEKILN ROAD

Tag Number	Species	Age class	Category	Vigor	Comments	Preliminary Recommendations	Long Term Potential	DBH (mm)	Height (meter)	Crown spread NESW (meter)	Clear Stem (meter)
516	London Plane (*Platanus* x *hispanica*)	Mature	A2	Good	Located within a 6m grass verge on the Limekiln Road. Small diameter pruning cuts south at 2.25m with no associated decay. Trunk codominant at 2.25m with wide union present. Well developed canopy with no visible defects.	No action necessary	40	560	16	5;6;5;4	3n
517	Norway maple (*Acer platanoides*)	Mature	B2	Good	Located within a 6m grass verge on the Limekiln Road. Tight stem unions from 2.25m that may reduce long term potential. No visible defects.	No action necessary	20-30	360	15	3;2;2;2.5	2n
518	Norway maple (*Acer platanoides*)	Young	C2	Good	Located within a 6m grass verge on the Limekiln Road. Bark damage east from likely impact at 0.7m. No significant at present.	No action necessary	15-20	170	5	1.5;1.5;1.5;1.5	2n
519	London Plane (*Platanus* x *hispanica*)	Mature	A2	Good	Located within a 6m grass verge on the Limekiln Road. Minor light suppressed deadwood in lower canopy. No visible defects.	No action necessary	40	420	13.5	7;6;6;4.5	2.5s
520	Norway maple (*Acer platanoides*)	Early mature	B2	Good	Located within a 6m grass verge on the Limekiln Road. Relatively well developed with no visible defects.	No action necessary	20-30	280	12.5	3;3;3;3	2.5n
521	London Plane (*Platanus* x *hispanica*)	Mature	A2	Good	Located within a 6m grass verge on the Limekiln Road. Minor (3° degree) lean north that corrects at 4.25m which is not significant at present. Well developed crown with no visible defects.	No action necessary	40	540	17	8;8;6;5	7n

APPENDIX 1: INDIVIDUAL TREE ASSESSMENT OF TREES ON LIMEKILN ROAD

Tag Number	Species	Age class	Category	Vigor	Comments	Preliminary Recommendations	Long Term Potential	DBH (mm)	Height (meter)	Crown spread NESW (meter)	Clear Stem (meter)
522	Cherry cv (*Prunus cv*)	Early mature	B2	Good	Located within a 6m grass verge on the Limekiln Road. Three stems from base with tight unions which may reduce long term potential. Crown well developed.	No action necessary	20-30	220	4.5	2;2;2;2	2n
523	Norway maple (*Acer platanoides*)	Mature	B2	Good	Located within a 6m grass verge on the Limekiln Road. Damage to exposed roots north from mower activity. Decay present that is likely to reduce long term potential. Root flare covered by soil buildup. Canopy well developed.	Expose root flare	15-25	370	16.5	3;3;2;2	4e
524	London Plane (*Platanus* x *hispanica*)	Mature	A2	Good	Located within a 6m grass verge on the Limekiln Road. Large specimen with expansive well developed canopy.	No action necessary	40	640	17.5	8;8;8;6	4.5s
525	London Plane (*Platanus* x *hispanica*)	Mature	A2	Good	Located within a 6m grass verge on the Limekiln Road. Large specimen with expansive well developed canopy.	No action necessary	40	700	18	8;5;8;7	7e
526	London Plane (*Platanus* x *hispanica*)	Mature	A2	Good	Located within a 6m grass verge on the Limekiln Road. Soil buildup at base partly obscures root flare. Crown relatively well developed with no visible defects.	Expose root flare	40	600	17	6;6;8;5	7s
527	Norway maple (*Acer platanoides*)	Mature	A2	Good	Located within a 6m grass verge on the Limekiln Road. Soil buildup at base partly obscures root flare. Crown relatively well developed with no visible defects.	Expose root flare	40	350	11	4;3;3.5;3	2.25n

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Tag Number	Species	Age class	Category	Vigor	Comments	Preliminary Recommendations	Long Term Potential	DBH (mm)	Height (meter)	Crown spread NESW (meter)	Clear Stem (meter)
528	Small leaf lime (*Tilia cordata*)	Mature	B2	Good	Located on the Limekiln Road within a 4.5m grass verge. Soil buildup around bare obscures root flare. Crown relatively well developed.	Expose root flare	20-30	320	8	3;3;3;3	5s
529	Norway maple (*Acer platanoides*)	Mature	B2	Good	Located on the Limekiln Road within a 4.5m grass verge. Bark damage south for 1m that has been well occluded. Canopy well developed and vigorous.	No action necessary	20-30	340	10	3;3;1.5;2	2.5n
530	London Plane (*Platanus* x *hispanica*)	Mature	A2	Good	Located on the Limekiln Road within a 4.5m grass verge. Well developed specimen with no visible defects.	No action necessary	40	660	17	7;8;7;5	3s
531	Norway maple (*Acer platanoides*)	Mature	B2	Good	Located on the Limekiln Road within a 4.5m grass verge. Damage to exposed roots south from mower activity which may reduce long term potential. Crown well developed.	No action necessary	20-30	350	12	4;4;2;2	5n
532	Broad-leaved whitebeam (*Karpatiosorbus latifolia*)	Mature	B2	Good	Located on the Limekiln Road within a 4.5m grass verge. Relatively well developed with no visible defects.	No action necessary	30-40	250	5.5	2;2;2;2	1.5s
533	Norway maple (*Acer platanoides*)	Mature	B2	Good	Located on the Limekiln Road within a 4.5m grass verge. Damage to exposed roots south from mower activity which may reduce long term potential. Crown well developed.	No action necessary	20-30	350	10.5	4;4;3;3	3e

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534	Norway maple (*Acer platanoides*)	Mature	C2	Fair	Located on the Limekiln Road within a 4.5m grass verge. Girdling roots south. Smaller leafs suggests some physiological stress. Older impact damage west at 0.75m which is not significant at present.	Root girdled roots	10-15	300	8.5	2;2;2;2	2s
535	Norway maple (*Acer platanoides*)	Mature	A2	Good	Located on the Limekiln Road within a 4.5m grass verge. Well developed with canopy reduced north near overhead services. No visible defects.	No action necessary	30-40	330	11	2;2.5;2.5;2	2.5s
536	Norway maple (*Acer platanoides*)	Mature	A2	Good	Located on the Limekiln Road within a 4.5m grass verge. Well developed with canopy reduced north near overhead services. No visible defects.	No action necessary	30-40	420	13	4;3;3.5;3.5	3n
537	Hawthorn (*Crataegus monogyna*)	Mature	B2	Good	Located on the Limekiln Road within a 4.5m grass verge. Well developed with crown reduced north near overhead services. No visible defects.	No action necessary	30-40	290	6	2;2;2;1.5	2s
538	Norway maple (*Acer platanoides*)	Mature	A2	Good	Located on the Limekiln Road within a 4.5m grass verge. Well developed with no visible defects.	No action necessary	40	290	9	2;2.5;3;3	3n
539	Norway maple (*Acer platanoides*)	Mature	B2	Fair	Located on the Limekiln Road within a 4.5m grass verge. Root flare obscured by soil buildup. Smaller leafs suggests some physiological stress.	Expose root flare	20-30	300	8	2;2;2.5;2	2.5s

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540	Cherry cv (*Prunus cv*)	Mature	B2	Good	Located on the Limekiln Road within a 4.5m grass verge. Relatively well developed with no visible defects.	No action necessary	20-30	470	5	3;3;3;2	2.5n
541	Cherry cv (*Prunus cv*)	Mature	B2	Good	Located on the Limekiln Road within a 4.5m grass verge. Canopy reduced north near overhead services. Relatively well developed with no visible defects.	No action necessary	20-30	420	5	3;3;2;1	2.5n
542	Cherry cv (*Prunus cv*)	Mature	B2	Good	Located on the Limekiln Road within a 4.5m grass verge. Relatively well developed with no visible defects.	No action necessary	20-30	430	5.5	3;3;2;2	2.5n
543	Purple Leaf Plum (*Prunus Cerasifera Nigra*)	Mature	U	Poor	Located on the Limekiln Road within a 4.5m grass verge. Fungal bracket throughout canopy and internal decay present at 1.5m south due to extensive bars damage.	Fell and replace	0	300	5.5		
544	Norway maple (*Acer platanoides*)	Early mature	B2	Good	Located on the Limekiln Road within a 4.5m grass verge. Well developed with no visible defects.	No action necessary	30-40	210	6	2;3;2;1	2.5e
545	Norway maple (*Acer platanoides*)	Mature	B2	Good	Located on the Limekiln Road within a 4.5m grass verge. Relatively well developed. Bark damage at root flare south which is not significant at present.	No action necessary	30-40	310	8	3;3;3;2	2.5s

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546	Cherry cv (*Prunus cv*)	Mature	C2	Fair	Located on the Limekiln Road within a 4.5m grass verge. Heavy ivy growth obscures assessment of upper trunk and canopy. Root flare obscured within raised planting area. Canopy poorly formed.	Remove ivy and reassess	10-15	440	7	2;3;4;1	3s
547	Norway maple (*Acer platanoides*)	Mature	A2	Good	Located on the Limekiln Road within a 4.5m grass verge. Well developed with no visible defects.	No action necessary	40	390	11	4;4;3;2	3e
548	Cherry cv (*Prunus cv*)	Mature	C2	Fair	Located on the Limekiln Road within a 4.5m grass verge. Damage to exposed roots west due to mower activity which may reduce long term potential. Canopy poorly developed with secondary growth near base.	No action necessary	15-20	440	6	2;3.5;3;3	3n
549	Cherry cv (*Prunus cv*)	Mature	B2	Good	Located on the Limekiln Road within a 4.5m grass verge. Relatively well developed with no visible defects.	No action necessary	20-30	560	6	3;4;4;3	4s
550	Cherry cv (*Prunus cv*)	Mature	B2	Good	Located on the Limekiln Road within a 4.5m grass verge. Relatively well developed with no visible defects.	No action necessary	20-30	520	8	3;4;3;4	3n
551	Cherry cv (*Prunus cv*)	Mature	B2	Good	Located on the Limekiln Road within a 4.5m grass verge. Exhibits a slight lean east which corrects at 2m. Not significant at present. Relatively well developed with no visible defects.	No action necessary	20-30	340	6.5	2;3;2;1	3s

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552	Purple Leaf Plum (*Prunus Cerasifera Nigra*)	Mature	B2	Good	Located on the Limekiln Road within a 4.5m grass verge. Relatively well developed with localised decay at 1.75m north that is not significant at present.	No action necessary	20-30	280	5	2;2;2;2	2.5s
553	Cherry cv (*Prunus cv*)	Mature	B2	Good	Located on the Limekiln Road within a 4.5m grass verge. Canopy suppressed west. Relatively well developed with no visible defects.	No action necessary	20-30	480	5	2.5;3;3;0	3e
554	Cherry cv (*Prunus cv*)	Mature	B2	Good	Located on the Limekiln Road within a 4.5m grass verge. Relatively well developed. Overhead services intrude into upper canopy at 6.5m north.	Prune near overhead services	20-30	420	6.5	3;2;3;1	4s
	Hawthorn (*Crataegus monogyna*)	Mature	B2	Good	Located on the Limekiln Road within a 4.5m grass verge. Drawn up form due to roadside pruning. Well developed with no visible defects.	No action necessary	20-30	300	6.5	1;2.5;1;1	NA
556	Cherry cv (*Prunus cv*)	Mature	B2	Good	Located on the Limekiln Road within a 4.5m grass verge. Minor damage to exposed roots from mower activity with no associated decay. Relatively well developed with no visible defects.	No action necessary	20-30	440	5.5	2;3;2.25;0.5	3e

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Tag Number	Species	Age class	Category	Vigor	Comments	Preliminary Recommendations	Long Term Potential	DBH (mm)	Height (meter)	Crown spread NESW (meter)	Clear Stem (meter)
557	Broad-leaved whitebeam (*Karpatiosorbus latifolia*)	Mature	B2	Good	Located on the Limekiln Road within a 4.5m grass verge. Tips pruned near overhead services. Relatively well developed with no visible defects.	No action necessary	20-30	260	6	2;3;2;2.5	3n
558	Broad-leaved whitebeam (*Karpatiosorbus latifolia*)	Mature	B2	Good	Located on the Limekiln Road within a 4.5m grass verge. Relatively well developed with no visible defects.	No action necessary	20-30	240	6	2;2.5;1.5;2	2.5n
559	Cherry cv (*Prunus cv*)	Mature	U	Fair	Located on the Limekiln Road within a 4.5m grass verge. In a state of decline with extensive decay throughout trunk from 0.5m to 1.75m	Fell and replace	>10	240			
560	Norway maple (*Acer platanoides*)	Early mature	B2	Good	Located on the Limekiln Road within a 4.5m grass verge. Well developed with no visible defects.	No action necessary	30-40	250	8.5	2.5;2.5;1.5;2	2.5n
561	Norway maple (*Acer platanoides*)	Early mature	B2	Good	Located on the Limekiln Road within a 4.5m grass verge. Well developed with no visible defects.	No action necessary	30-40	230	8.5	3;2.5;2;2	2.5n
562	Cherry cv (*Prunus cv*)	Mature	B2	Good	Located on the Limekiln Road within a 4.5m grass verge. Damage to exposed roots south and east from mower activity with decay visible that will likely damage long term potential. Crown well developed.	No action necessary	20-30	600	7	3;5;3;2.5	2.5e

*Refer to drawing TWEL002 101-104

APPENDIX 11: INDIVIDUAL TREE ASSESSMENT OF TREES ON ORWELL, ROSSMORE AND TEMPLEOGUE WOOD ROADS

Tag Number	Species	Age class	Category	Vigour	Comments	Preliminary Recommendations	Long Term Potential	DBH (mm)	Height (meter)	Crown spread NESW (meter)	Clear Stem (meter)
829	Norway maple (*Acer platanoides*)	Mature	B2	Good	Located within an open grass area at the entrance to Orwell road. Included bark at 2m south due to tight co-dominant stem formation. Not significant at present but may reduce long-term life expectancy. Crown well developed. No visible defects.	Monitor area of included bark.	30-40	600	14.5	5;6;6;5.5	4n
830	Cherry cv (*Prunus cv*)		C2	Good	Located in parkland opposite Orwell park shopping centre. A line of 5 juvenile cherry. No visible defects.						
831	Cherry cv (*Prunus cv*)	Mature	A2	Good	Located within an open grass area at the entrance to Orwell park rise. Crown well developed. No visible defects.	No action necessary	40	400	9	5;3;4;4	2n
832	London Plane (*Platanus x hispanica*)	Mature	B2	Good	Located within a 2.5m wide grass verge on the Orwell road. Appears to have been topped with upper crown now missing. No other visible defects.	No action necessary	30-40	300	7	3;3;2.5;2.5	2n
833	London Plane (*Platanus x hispanica*)	Mature	B2	Good	Located within a 2.5m wide grass verge on the Orwell road. Crown formation poor due to intensive pruning.	No action necessary	30-40	290	12	3;3;3;3	2.5n
834	Norway maple (*Acer platanoides*) 'Crimson King'	Young	C2	Good	Located in parkland opposite Orwell park shopping centre. Mower impact damage at base south which may reduce long-term potential.	Monitor area of impact damage	10-15	120	6	1;2;1;1	NA
835	Rowan (*Sorbus aucuparia*)	Mature	B2	Good	Located within a 4m grass verge adjacent to Orwell road shopping centre. Multi stemmed from base with no visible defects.	No action necessary	20-30	280	4.5	1;2;1;1	1n

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836	London Plane (*Platanus x hispanica*)	Mature	B2	Good	Located within a 4m grass verge adjacent to St. Jude's Church. Trunk codominant at 2.4m with a tight union that has produced some degree of internet decay as evident from included bark and jelly ear (*Auricularia auricula-judae*) fungal fruiting bodies. Not significant at present though likely to reduce long term potential. Crown well developed. Trunk base sound with well developed buttresses.	Monitor area of stem union	20-30	520	18	7;7;7;6	7n
837	London Plane (*Platanus x hispanica*)	Mature	A2	Good	Located within a 2.5m wide grass verge on the Orwell road. Well developed with no visible defects.	No action necessary	40	520	18	8;4;5;5	5n
838	London Plane (*Platanus x hispanica*)	Mature	A2	Good	Located within a 2.5m wide grass verge on the Orwell road. Evidence of past pavement heave as section of pathway directly north of trunk has been replaced. Well developed with no visible defects.	No action necessary	40	500	18	8;6;7;6	5n
839	London Plane (*Platanus x hispanica*)	Mature	A2	Good	Located within a 2.5m wide grass verge on the Orwell road. Well developed with no visible defects.	No action necessary	40	550	19	8;7;5;7	3.5e
840	London Plane (*Platanus x hispanica*)	Mature	A2	Good	Located within a 2.5m wide grass verge on the Orwell road. Well developed with no visible defects.	No action necessary	40	600	18	7;5;7;5	2.5s
841	Cherry cv (*Prunus cv*)	Mature	B2	Good	Well developed with no visible defects.	No action necessary	20-30	310	8	4;4;3;3	4e
842	Cherry cv (*Prunus cv*)	Mature	C2	Fair	Girdling roots and decay on secondary stem east. In a state of decline.	No action necessary	10-15	270	8	3;3;4;2	4s
843	London Plane (*Platanus x hispanica*)	Mature	A2	Good	Located within a 2m wide grass verge on the Rossmore road. Large diameter pruning cuts visible at 3.5m west with no associated decay. No visible defects.	No action necessary	40	500	17	7;6;4.5;4.5	9e

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844	Norway maple (*Acer platanoides*)	Early mature	B2	Good	Located within a 2m wide grass verge on the Rossmore road. Large diameter pruning cuts visible at 2.25m west and north with no associated decay. Congestion in lower canopy branches.	Prune lower canopy	20-30	290	11	2;3;2;2	6e
845	London Plane (*Platanus x hispanica*)	Mature	B2	Good	Located within a 2m wide grass verge on the Rossmore road. Deadwood over footpath west at 3m. Relatively well developed crown with no visible defects.	Deadwood	30-40	420	14	5;5;3;3	4n
846	Norway maple (*Acer platanoides*)	Early mature	B2	Good	Located within a 2m wide grass verge on the Rossmore road. Well developed crown with no visible defects.	No action necessary	20-30	240	7	3.5;3;3;2	3n
847	European hornbeam (*Carpinus betulus*)	Early mature	B2	Good	Located within a 2m wide grass verge on the Rossmore road. Well developed crown with no visible defects.	No action necessary	20-30	230	8	2;2;2;2	3n
848	London Plane (*Platanus x hispanica*)	Early mature	B2	Good	Located within a 2m wide grass verge on the Rossmore road. Relatively well developed crown. Exposed roots exhibit bark damage with localised decay south which is likely to reduce long term potential.	No action necessary	15-25	240	9	3;3;2;2	6n
849	Cherry cv (*Prunus cv*)	Early mature	B2	Good	Located within a 2m wide grass verge on the Rossmore road. Of squat form due to pruning with no visible defects.	No action necessary	20-30	160	2.5	2;1;2;1	1.75
850	Norway maple (*Acer platanoides*)	Early mature	C2	Good	Located within a 2m wide grass verge on Rossmore road. Planted too deep with root flare not visible around base. Twiggy appearance in canopy.	Reduce soil levels around base	10-15	180	8.5	1;1;1;1.5	3w

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851	Norway maple (*Acer platanoides*)	Early mature	C2	Good	Located within a 2m wide grass verge on Rossmore road. Planted too deep with root flare not visible around base. Bark damage south east that is likely to reduce long term potential. This has mostly been recovered from and is not significant at present.	Reduce soil levels around base	10-15	280	9	2;2;1;2	4s
852	Norway maple (*Acer platanoides*)	Mature	B2	Good	Located within a 2m wide grass verge on the Rossmore road. Well developed crown. Exposed roots exhibit bark damage with localised decay east which is likely to reduce long term potential.	No action necessary	20-30	390	13	4;2;5;4	6n
853	London Plane (*Platanus x hispanica*)	Mature	A2	Good	Located within a 2m wide grass verge on the Rossmore road. Well developed crown. Minor damage at root flare west from mower activity which is unlikely to reduce long term potential.	No action necessary	40	540	18	5;6;4.5;4.5	7n
854	Norway maple (*Acer platanoides*) 'Crimson King'	Mature	B2	Good	Located within a 2m wide grass verge on the Rossmore road. Crown slightly drawn up due to roadside pruning. No visible defects.	No action necessary	30-40	340	16.5	2;2;2;2	NA
855	Norway maple (*Acer platanoides*)	Mature	B2	Fair	Located within a 2m wide grass verge on the Rossmore road. Crown slightly drawn up due to roadside pruning. Poorly formed canopy as a result. No visible defects.	No action necessary	30-40	320	17	3;3;4;1	5n
856	London Plane (*Platanus x hispanica*)	Mature	A2	Good	Located within a 2m wide grass verge on the Rossmore road. Crown relatively well developed. Pavement heave most likely resulted in replacement section west of trunk. No visible defects.	No action necessary	40	400	19	4;4;3;3	5e

Tag Number	Species	Age class	Category	Vigour	Comments	Preliminary Recommendations	Long Term Potential	DBH (mm)	Height (meter)	Crown spread NESW (meter)	Clear Stem (meter)
857	Norway maple (*Acer platanoides*) 'Crimson King'	Mature	B2	Good	Located within a 2m wide grass verge on the Rossmore road. Lower canopy raised over roadway. Bark damage with localised decay in exposed roots north which is likely to reduce long term potential. Large diameter pruning cuts south at 2.25m with no associated decay.	No action necessary	25-35	360	16.5	3.5;2;2;3	7n
858	London Plane (*Platanus x hispanica*)	Mature	B2	Good	Located within a 2m wide grass verge on the Rossmore road. Exhibits pavement heave east. Bark damage to exposed roots east with no associated decay. Trunk exhibits lean north by 9° degrees which corrects at 5m. Upper canopy well developed.	No action necessary	20-30	380	18	6;6;5;4.5	4n
859	London Plane (*Platanus x hispanica*)	Mature	B2	Good	Relatively well developed with no visible defects.	No action necessary	20-30	370	12	4;3;2;3	3s
860	Norway maple (*Acer platanoides*) 'Crimson King'	Early mature	C2	Fair	Single stemmed with drawn up form from successive pruning activity.	No action necessary	15-20	300	11	1.5;2;1;1.5	NA
861	London Plane (*Platanus x hispanica*)	Mature	B2	Good	Relatively well developed with no visible defects.	No action necessary	30-40	380	12.5	4;2.5;3;3	2.5s
862	Norway maple (*Acer platanoides*)	Mature	A2	Good	Well developed with no visible defects.	No action necessary	40	400	13	4;4;4;4	4.5w
863	Norway maple (*Acer platanoides*)	Mature	B2	Good	Minor damage to exposed roots south that is likely to reduce long term potential. Relatively well developed with no other visible defects.	No action necessary	20-30	360	14	4;2;3;2	NA

Tag Number	Species	Age class	Category	Vigour	Comments	Preliminary Recommendations	Long Term Potential	DBH (mm)	Height (meter)	Crown spread NESW (meter)	Clear Stem (meter)
864	European hornbeam (*Carpinus betulus*)	Mature	B2	Good	Relatively well developed with no visible defects.	No action necessary	20-30	240	7.5	2;2;2;2	2.5n
865	London Plane (*Platanus x hispanica*)	Mature	B2	Fair	Pavement heave east due to root activity. Canopy poorly developed due to relatively heavy pruning activity. No visible defects.	No action necessary	20-30	370	14	3;2.5;3;2.75	4.75e
866	Rowan (*Sorbus aucuparia*)	Mature	U	Poor	Severe impact damage at base north that is likely to reduce long term potential. Small diameter pruning cuts at 2m north.	Fell	>10	110	4.5	0.5;0.5;0.5;0.5	2.75s
867	Norway maple (*Acer platanoides*)	Mature	B2	Good	Mower impact damage to exposed roots north and south that contain localised decay and are likely to reduce long term potential. Canopy relatively well formed with a single stemmed trunk.	No action necessary	20-30	360	12	4;4;2;2	5.5e
868	London Plane (*Platanus x hispanica*)	Mature	B2	Good	Relatively well developed. Pavement heave west. Girdling roots west that may reduce long term potential.	Remove girdling roots	20-30	370	11.5	3.5;2;1;1	4w
869	Oakleaf mountain ash (*Sorbus × hybrida*)	Mature	B2	Good	Well developed with no visible defects.	No action necessary	20-30	330	8.5	2;2;2;2	3n
870	Oakleaf mountain ash (*Sorbus × hybrida*)	Mature	B2	Good	Well developed with no visible defects.	No action necessary	20-30	320	8.5	2;1;2;1.5	3n

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871	European hornbeam (*Carpinus betulus*)	Mature	B2	Good	Minor bark damage west at base that is not significant at present. Crown relatively well developed.	No action necessary	20-30	340	11	1.5;3;2;2	2.5w
872	London Plane (*Platanus x hispanica*)	Early mature	C2	Good	Deadwood in lower canopy. Canopy poorly developed due to heavy pruning activity.	Deadwood	10-15	370	12	1;2;2;1	4s
873	European hornbeam (*Carpinus betulus*)	Mature	C2	Good	Codominant with a open crown. Minor damage to exposed roots from mower activity that is likely to reduce long term potential.	No action necessary	10-15	330	11	2;2;2;0.5	2.5s
874	Cherry cv (*Prunus cv*)	Mature	A2	Good	Located within an open grass area 1.25m from footpath. Relatively well developed with no visible defects.	No action necessary	40	340	5	3;3;3;4	2.75s
875	London Plane (*Platanus x hispanica*)	Mature	A2	Good	Located within a 1m wide grass verge on Rossmore Road. Lower crown raised over roadway. Crown well developed. Exposed roots north damage from mower activity with localised decay present which is not significant at present. No visible defects.	No action necessary	40	350	16.5	3;4.5;3;3	7e
876	Cherry cv (*Prunus cv*)	Mature	A2	Good	Located within an open grass area 1.25m from footpath. Well developed with no visible defects.	No action necessary	40	300	5.5	3;2.5;3;3.5	2.5e
877	European hornbeam (*Carpinus betulus*)	Mature	B2	Good	Located within a 1m wide grass verge on Rossmore Road. Crown well developed with characteristic congestion in lower canopy.	No action necessary	30-40	320	8.5	3;3;2;3.5	4e

Tag Number	Species	Age class	Category	Vigour	Comments	Preliminary Recommendations	Long Term Potential	DBH (mm)	Height (meter)	Crown spread NESW (meter)	Clear Stem (meter)
878	Small leaved lime (*Tilia cordata*)	Mature	B2	Good	Located within a 1m wide grass verge on Rossmore Road. Root girdling west which may impact long-term potential. Crown relatively well developed.	Remove girdling root	30-40	390	15.5	4;3;2;4	6w
879	London Plane (*Platanus x hispanica*)	Mature	A2	Good	Located within a 1m wide grass verge on Rossmore Road. Lower crown raised over roadway. Crown well developed. Minor mower impact damage at base east that is not significant at present. No visible defects.	No action necessary	40	320	17	4;3;3;3.5	8w
880	London Plane (*Platanus x hispanica*)	Mature	A2	Good	Located within a 1m wide grass verge on Rossmore Road. Lower crown raised over roadway. Crown well developed. Large diameter pruning cuts at 4m south and east which are relatively recent flush cuts which may become an inlet for decay. No visible defects.	No action necessary	40	330	17.5	4.5;3;4;4	12w
881	London Plane (*Platanus x hispanica*)	Mature	A2	Good	Located within a 1m wide grass verge on Rossmore Road. Lower crown raised over roadway. Crown well developed. No visible defects.	No action necessary	40	330	17	4;4;3;3	8m
882	Cherry cv (*Prunus cv*)	Mature	B2	Good	Located within a 1m wide grass verge on Rossmore Road. Lower crown raised over roadway. Large diameter pruning cut (15mm+) at 2.25m west with no associated decay. Crown somewhat drawn up though relatively well formed. No visible defects.	No action necessary	30-40	280	8	2.5;2;2;2	4s

Tag Number	Species	Age class	Category	Vigour	Comments	Preliminary Recommendations	Long Term Potential	DBH (mm)	Height (meter)	Crown spread NESW (meter)	Clear Stem (meter)
883	Norway maple (*Acer platanoides*) 'Crimson King'	Early mature	C2	Fair	Located within a 1m wide grass verge on Rossmore Road. Lower crown raised over roadway. Crown drawn up with a poor formation. Mower damage at base east likely to reduce long-term potential.	No action necessary	10-20	260	9	4;1;1;2	4n
884	Norway maple (*Acer platanoides*) 'Crimson King'	Early mature	C2	Fair	Located within a 1m wide grass verge on Rossmore Road. Lower crown raised over roadway. Crown drawn up with a poor formation. Root flare somewhat obscured root girdling present east. Likely impact damage east with associated bark damage. All these factors likely to reduce long-term potential.	Monitor damage	10-20	260	9	2;2;2.5;1.5	6s
885	Cherry cv (*Prunus cv*)	Mature	B2	Good	Located within an open grass area 1 from the footpath. A mature specimen with no visible defects, however a tight stem union at 1.5m is likely to reduce long-term potential.	No action necessary	20-30	520	7	4;4;4;3	6e
886	European hornbeam (*Carpinus betulus*)	Mature	B2	Good	Located within a 1m wide grass verge. Small (10mm) pruning cuts at 1-2m south and east. No associated decay at these points. Larger diameter (15mm+) pruning cuts at 2.5m. These are relatively recent flush cuts which may become an inlet for decay. No visible defects.	No action necessary	20-30	310	12	4.5;3;3;2.5	5e
887	London Plane (*Platanus x hispanica*)	Mature	A2	Good	Located within a 1m wide grass verge on Rossmore Road. Lower crown raised over roadway though upper crown relatively well developed. Large diameter pruning cut north at 5m with no visible decay present. No visible defects.	No action necessary	30-40	440	17	4.5;3;3;4	7w

APPENDIX 11: INDIVIDUAL TREE ASSESSMENT OF TREES ON ORWELL, ROSSMORE AND TEMPLEOGUE WOOD ROADS

Tag Number	Species	Age class	Category	Vigour	Comments	Preliminary Recommendations	Long Term Potential	DBH (mm)	Height (meter)	Crown spread NESW (meter)	Clear Stem (meter)
888	European hornbeam (*Carpinus betulus*)		C2	Good	Located within a 1.5m wide grass verge on Templeogue Wood Road. Close stems producing poor unions.	No action necessary	10-15	260	10	1;1;1;1	1s
889	European hornbeam (*Carpinus betulus*)	Mature	B2	Good	Located within a 1.5m wide grass verge on Templeogue Wood Road.	No action necessary	20-30	300	9	1;1;1;1	2s
890	London Plane (*Platanus x hispanica*)	Mature	A2	Good	Located within a 1.5m wide grass verge on Templeogue Wood Road. No defects visible.	No action necessary	40	480	13	3;3;3;3	3s
891	London Plane (*Platanus x hispanica*)	Mature	A2	Good	Located within a 1.5m wide grass verge on Templeogue Wood Road. No defects visible.	No action necessary	40	480	13	3;3;3;3	3s
892	London Plane (*Platanus x hispanica*)	Mature	A2	Good	Located within a 1.5m wide grass verge on Templeogue Wood Road. No defects visible.	No action necessary	40	480	13	3;3;3;3	3s
893	Norway maple (*Acer platanoides*)	Mature	B2	Good	Located within a 1.5m wide grass verge on Templeogue Wood Road. Lower canopy raised over roadway. No defects visible.	No action necessary	30-40	460	11	2;3;2;3	4s
894	European hornbeam (*Carpinus betulus*)	Mature	C2	Good	Located within a 1.5m wide grass verge on Templeogue Wood Road. Crowded branches in lower canopy.	No action necessary	10-15	290	10	1.5; 1.5; 1.5; 1.5	4n

Tag Number	Species	Age class	Category	Vigour	Comments	Preliminary Recommendations	Long Term Potential	DBH (mm)	Height (meter)	Crown spread NESW (meter)	Clear Stem (meter)
895	Broad-leaved whitebeam (*Karpatiosorbus latifolia*)	Mature	B2	Good	Located within a 1.5m wide grass verge on Templeogue Wood Road. No defects visible.	No action necessary	20-30	320	8	2.5;2;2;2	3.5n

*Refer to drawing TWEL002 105-108

APPENDIX III: INDIVIDUAL TREE ASSESSMENT OF TREES ON WHITEHALL RD AND WELLINGTON RD

Tag Number	Species	Age class	Category	Vigour	Comments	Preliminary Recommendations	Long Term Potential	DBH (mm)	Height (meter)	Crown spread NESW (meter)	Clear Stem (meter)
1701	Turkish Hazel (*Corylus colurna*)	Young	B2	Good	Well developed. No visible defects	No action necessary	15-20	80	3	1;1;1;1	2n
1702	Turkish Hazel (*Corylus colurna*)	Young	B2	Good	Partly occluded stem damage to base east. Remaining tree well developed with no visible defects	No action necessary	10-15	140	4	2;2 2 2	2n
1703	Turkish Hazel (*Corylus colurna*)	Young	B2	Good	Well developed. No visible defects.	No action necessary	10-15	130	3.5	1.5;1.5;1.5;1.5	2e
1704	Field maple (*Acer campestre*)	Young	B2	Good	Well developed. No visible defects	No action necessary	10-15	150	4.25	2;2;2 2	1.75w
1705	Field maple (*Acer campestre*)	Young	B2	Good	Well developed. No visible defects	No action necessary	10-15	140	5	2;2;2;2	1.75e
1706	Field maple (*Acer campestre*)	Young	B2	Good	Well developed. No visible defects	No action necessary	10-15	160	5	3;2;3;3	1.75e
1707	Field maple (*Acer campestre*)	Young	B2	Good	Upper canopy slow to leaf may indicate decline of low vigour. Surface roots lifting surrounding kerb and paving	No action necessary	10-15	140	4.5	2;2;2;1.75	1.75e
1708	Field maple (*Acer campestre*)	Young	B2	Good	Well developed. No visible defects	No action necessary	15-20	150	5	2;2 2;2	2
1709	Field maple (*Acer campestre*)	Young	B2	Good	Well developed. Crown altered toward east to facilitate traffic. No visible defects.	No action necessary	10-15	170	4.25	3;2;3;3	1.75e
1710	Field maple (*Acer campestre*)	Early Mature	B2	Good	Well developed. Surface roots lifting surrounding paving. No visible defects	No action necessary	10-15	230	6.25	2;3;3;2	2e
1711	Field maple (*Acer campestre*)	Early Mature	B2	Good	Crown altered to facilitate traffic. Surface roots lifting surrounding kerb and paving	No action necessary	10-15	240	6	2;3.5;2;3	2e
1712	Beech *Fagus sylvatica*	Young	B2	Good	Crown restricted toward west due to competition from neighbouring tree. No visible defects	No action necessary	10-15	70	4.25	2;1;1;1	2n

APPENDIX 1II: INDIVIDUAL TREE ASSESSMENT OF TREES ON WHITEHALL RD AND WELLINGTON RD

Tag Number	Species	Age class	Category	Vigour	Comments	Preliminary Recommendations	Long Term Potential	DBH (mm)	Height (meter)	Crown spread NESW (meter)	Clear Stem (meter)
1713	Field maple (*Acer campestre*)	Young	B2	Good	Surface roots lifting paving. Crown well developed. No visible defects	No action necessary	10-15	120	4	1;1;1;1	1.75w
1714	Field maple (*Acer campestre*)	Young	C2	Fair	Canopy form poor with no leading stem present. Lateral limb development only.	No action necessary	10	140	3	2;2;2;2	1.75e
1715	Field maple (*Acer campestre*)	Young	B2	Good	Crown altered to facilitate traffic. No visible defects	No action necessary	10-15	120	4.15	2;1;2;2	1.75nw
1716	Field maple (*Acer campestre*)	Young	B2	Good	Surface roots beginning to lift kerb and paving. Canopy well developed. No visible defects	No action necessary	10-15	160	4.5	2;2.5;2;2	1.75e
1717	Field maple (*Acer campestre*)	Young	B2	Good	Well developed. No visible defects	No action necessary	15-20	190	5.5	3;3;3;2	1.75s
1718	Field maple (*Acer campestre*)	Young	B2	Good	Well developed with no visible defects.	No action necessary	10-15	90	4	2;1;2;2	1.75e
1719	Turkish Hazel (*Corylus colurna*)	Young	B2	Good	Well developed. No visible defects	No action necessary	15-20	10	3.5	1;1;1;1	2e
1720	Field maple (*Acer campestre*)	Young	B2	Good	Well developed with no visible defects	No action necessary	10-15	120	4.25	3;2;3;3	1.75e
1721	Turkish Hazel (*Corylus colurna*)	Early Mature	B2	Good	Within grass verge. No visible defects	No action necessary	40	280	6	3;3;3;3	2w
1722	Field maple (*Acer campestre*)	Young	B2	Good	Crown altered toward east to facilitate traffic. No visible defects	No action necessary	40	180	4.25	3;2;3;3	1.75s
1723	Turkish Hazel (*Corylus colurna*)	Early Mature	B2	Good	Within grass verge. Well developed. No visible defects	No action necessary	40	220	7	3;3;3;3	1.75w
1724	Turkish Hazel (*Corylus colurna*)	Early Mature	B2	Good	Within grass verge. Well developed with no visible defects	No action necessary	40	210	6	2;3;2 3	2e

APPENDIX III: INDIVIDUAL TREE ASSESSMENT OF TREES ON WHITEHALL RD AND WELLINGTON RD

Tag Number	Species	Age class	Category	Vigour	Comments	Preliminary Recommendations	Long Term Potential	DBH (mm)	Height (meter)	Crown spread NESW (meter)	Clear Stem (meter)
1725	Swedish whitebeam (*Sorbus aria*)	Early Mature	C2	Fair	Sparse upper canopy and slow into leaf may indicate decline	Dead wood	10	160	4	2;1;2;2	2.25e
1726	Swedish whitebeam (*Sorbus aria*)	Young	B2	Good	Slightly sparse crown but no visible defects	No action necessary	15-20	120	3.25	2;2;2;2	1.75e
1727	Turkish Hazel (*Corylus colurna*)	Early Mature	B2	Good	Within grass verge. Well developed. No visible defects	No action necessary	40	230	5.5	2;2;2;2	2w
1728	Turkish Hazel (*Corylus colurna*)	Early Mature	B2	Good	Within grass verge. Well developed. No visible defects	No action necessary	40	260	6	2;3;2;3	2w
1729	Field maple (*Acer campestre*)	Young	B2	Good	Crown slightly restricted toward north due to competition from neighbouring tree. No visible defects	No action necessary	30-40	150	4.25	2;1;2;3	2s
1730	Field maple (*Acer campestre*)	Young	B2	Good	Well developed. No visible defects	No action necessary	40	150	3.75	2;1;2;2	1.75ne
1731	Turkish Hazel (*Corylus colurna*)	Early Mature	B2	Good	Within grass verge. Well developed. No visible defects	No action necessary	40	210	6	3;3;3;3	1.75s
1732	Turkish Hazel (*Corylus colurna*)	Early Mature	B2	Good	Within grass verge. Well developed. No visible defects.	No action necessary	40	250	6	3;3;3;3	E
1733	Norway maple (*Acer platanoides*)	Young	B2	Good	Well developed. No visible defects	No action necessary	40	190	3.5	2;1.5;2;2	2e
1734	Field maple (*Acer campestre*)	Young	B2	Good	Crown slightly altered to facilitate traffic. No visible defects	No action necessary	40	190	5	3;2;2;3	1.75w
1735	Turkish Hazel (*Corylus colurna*)	Early Mature	B2	Good	Within grass verge. Well developed. No visible defects	No action necessary	40	200	6	3;3;3;3	1.75e

APPENDIX 1II: INDIVIDUAL TREE ASSESSMENT OF TREES ON WHITEHALL RD AND WELLINGTON RD

Tag Number	Species	Age class	Category	Vigour	Comments	Preliminary Recommendations	Long Term Potential	DBH (mm)	Height (meter)	Crown spread NESW (meter)	Clear Stem (meter)
1736	Turkish Hazel (*Corylus colurna*)	Young	B2	Good	Within grass verge. Well developed. No visible defects	No action necessary	40	160	5	2;2;2;2	1.75w
1737	Turkish Hazel (*Corylus colurna*)	Early Mature	B2	Good	Within grass verge. Well developed. No visible defects.	No action necessary	40	250	5	2;2;2;3	1.75w
1738	Purple leaf cherry (*Prunus nigra 'Cerasifera'*)	Mature	C2	Poor	Deadwood throughout upper crown may be indicative of decline	Dead wood	10	360	4.5	2 1;2;2	1.5n
1739	Field maple (*Acer campestre*)	Young	B2	Good	Crown slightly altered toward east to facilitate traffic. Strongly oriented toward west	No action necessary	40	190	3.5	2;1;2;3	2w
1740	Field maple (*Acer campestre*)	Young	B2	Good	Crown slightly altered to facilitate traffic. No visible defects	No action necessary	40	190	3.75	2;1;2;2	1.75w
1741	Swedish whitebeam (*Sorbus aria*)	Early Mature	C2	Fair	Crown altered to facilitate utility line clearance. Light deadwood present as a result.	Dead wood	10-15	180	3.5	2;1;2;2	2.15
1742	Field maple (*Acer campestre*)	Young	B2	Good	Well developed. No visible defects	No action necessary	40	180	3.25	2;2;2;2	1.75e
1743	Norway maple (*Acer platanoides*)	Early Mature	C2	Good	Tight unions between stems at 2.25m which have potential to become structurally weak in time. Upper canopy well developed.	No action necessary	10-15	220	8	3;3;3;3	2.5w
1744	Norway maple (*Acer platanoides*)	Early Mature	B2	Good	Well developed. No visible defects	No action necessary	40	220	9	3;3;3;3	2.25e
1745	Norway maple (*Acer platanoides*)	Early Mature	B2	Good	Well developed. No visible defects	No action necessary	40	260	9	4;4;4;4	2.25e

APPENDIX III: INDIVIDUAL TREE ASSESSMENT OF TREES ON WHITEHALL RD AND WELLINGTON RD

Tag Number	Species	Age class	Category	Vigour	Comments	Preliminary Recommendations	Long Term Potential	DBH (mm)	Height (meter)	Crown spread NESW (meter)	Clear Stem (meter)
1746	Norway maple (*Acer platanoides*)	Early Mature	B2	Good	Well developed. No visible defects	No action necessary	40	280	8	3;4;3;4	2.25e
1747	Birch (*Betula pendula*)	Mature	B2	Good	A well developed specimen. No visible defects	No action necessary	30-40	320	10	2;2;2;3	1.75e
1748	Norway maple (*Acer platanoides*)	Early Mature	B2	Good	Well developed with no visible defects	No action necessary	40	280	9	4;3;3;4	1.75e
1749	Norway maple (*Acer platanoides*)	Early Mature	B2	Good	Trunk multi-stemmed from 1m with tight unions between stems. Not significant at present.	No action necessary	40	280		3;3;3;3	1.25e
1750	Swedish whitebeam (*Sorbus aria*)	Early Mature	B2	Good	Crown slightly altered to facilitate utility line clearance. Remaining crown well developed.	No action necessary	20-30	250	6.5	2;2;2;2	2.25e
1751	*Whitebeam* (*Sorbus intermedia*)	Mature	B2	Good	Relatively well developed. Crown altered to facilitate overhead utility services	No action necessary	15-20	240	5.5	3;2;2;3	2.5s
1752	Norway maple (*Acer platanoides*)	Early Mature	B2	Good	Well developed with no visible defects	No action necessary	40	230	6	3;3;3;3	2.15n
1753	Norway maple (*Acer platanoides*)	Early Mature	B2	Good	Well developed. No visible defects	No action necessary	40	240	8	3;3;3;3	2e
1754	Swedish whitebeam (*Sorbus aria*)	Early Mature	U	Good	Decay in trunk to south east and storm damage in crown. Trunk with a lean toward north.	Fell	<10	250	6	3;2;2;2	2.25n
1755	Norway maple (*Acer platanoides*)	Early Mature	C2	Good	Tight unions between stems at 1.25m. No significant at present but potential future structural weaknesses.	No action necessary	10-15	230		2;2;2;2	1.25w
1756	Norway maple (*Acer platanoides*)	Early Mature	C2	Good	Very tight unions with potential structural weaknesses at 1.5m. Upper canopy relatively well developed	No action necessary	10	310		3;3;3;4	1.25e

APPENDIX III: INDIVIDUAL TREE ASSESSMENT OF TREES ON WHITEHALL RD AND WELLINGTON RD

Tag Number	Species	Age class	Category	Vigour	Comments	Preliminary Recommendations	Long Term Potential	DBH (mm)	Height (meter)	Crown spread NESW (meter)	Clear Stem (meter)
1757	Swedish whitebeam (*Sorbus aria*)	Early Mature	U	Good	Relatively well developed but trunk. With a strong lean toward north.	Fell	<10	190	4	3;1;1;1	2.25n
1758	Mountain Ash cultivar (*Sorbus aucuparia cv*)	Mature	U	Poor	Extensive decay in trunk to north at 1.5m. Trunk with a lean toward north.	Fell	<10	160	4.25	2;1;1;1	2.15w
1759	Norway maple (*Acer platanoides*)	Early Mature	B2	Good	Well developed. No visible defects	No action necessary	40	250	8	2;2;2;3	2.15w
1760	*Rowan Sorbus aucuparia*	Early Mature	B2	Good	Well developed. Stake and tie beginning to impact on tree.	Remove stake and tie	20-30	120	4.5	2;2;2;2	2s
1761	*Purple leaved maple* (*Acer platanoides*) 'Atropurpurea'	Early Mature	B2	Good	Well developed with no visible defects	No action necessary	40	240	7	2;3;2;2	1.75n
1762	*Purple leaved maple* (*Acer platanoides*) *'Atropurpurea'*	Early Mature	B2	Good	Tight unions between stems at 1.5m could become structurally weak in time. Upper canopy relatively well developed.	No action necessary	15-20	200	4	3;3;3;3	1.75e
1763	Swedish whitebeam (*Sorbus aria*)	Mature	B2	Good	Crown altered to facilitate overhead utility lines and traffic. Remaining crown relatively well developed	No action necessary	20-30	350	10	3;3;3;4	2.25w
1764	Field maple (*Acer campestre*)	Young	B2	Good	Well developed. Crown altered toward road to facilitate traffic. No visible defects	No action necessary	40	190	5.5	3;3 3;2	1.75s
1764	Field maple (*Acer campestre*)	Young	B2	Good	Well developed. Crown reduced toward road to facilitate traffic. No visible defects.	No action necessary	40	190	5.25	3;3;3;3	1.75e

APPENDIX III: INDIVIDUAL TREE ASSESSMENT OF TREES ON WHITEHALL RD AND WELLINGTON RD

Tag Number	Species	Age class	Category	Vigour	Comments	Preliminary Recommendations	Long Term Potential	DBH (mm)	Height (meter)	Crown spread NESW (meter)	Clear Stem (meter)
1765	Swedish whitebeam (*Sorbus aria*)	Mature	B2	Good	Well developed. No visible defects	No action necessary	40	250		2;1;2;2	2.5
1766	Swedish whitebeam (*Sorbus aria*)	Mature	B2	Good	Crown altered to facilitate traffic and overhead utility services. Remaining crown relatively well developed	No action necessary	20-30	370	10	4;3;4;4	2.5w
1767	Field maple (*Acer campestre*)	Young	B2	Good	Well developed. No visible defects	No action necessary	40	180	5	2;3;2;2	1.75e
1768	Field maple (*Acer campestre*)	Young	B2	Good	Well developed with no visible defects. Potential to impact on overhead utility services and traffic	Raise canopy to 3m	40	150	5	3;3;3;3	1.75w
1769	Field maple (*Acer campestre*)	Young	B2	Good	Mower impact damage at base. Crown relatively well developed.	No action necessary	20-30	150	3.75	2;2;2;2	2w
1770	Field maple (*Acer campestre*)	Young	B2	Good	Well developed. No visible defects	No action necessary	40	100	3.25	1;1;1;1	1.75n
1771	Field maple (*Acer campestre*)	Young	B2	Good	Well developed. No visible defects but lower limbs with potential to impact on traffic	Raise canopy to 3m.	40	150	6	2;2;2;2	1.75w
1772	Field maple (*Acer campestre*)	Young	B2	Good	Well developed. No visible defects. Lower limbs with potential to impact on traffic.	Raise canopy to 3m	40	200	5.75	2;3;2;2	2n
1773	Field maple (*Acer campestre*)	Young	B2	Good	Crown altered to facilitate vehicular traffic. No visible defects	No action necessary	40	160	3.75	2;2;2;1	2s
1774	Swedish whitebeam (*Sorbus aria*)	Mature	B2	Good	Relatively well developed but crown altered to facilitate overhead utility line clearance. Lower limbs over road hazardous to cyclists and vehicular traffic	Raise canopy to 3m to east	30-40	340	6	3;3;3;3	2e
1775	Small leaved lime cultivar (*Tilia cordata cv*)	Early Mature	B2	Good	Relatively well developed but canopy altered to facilitate utility line clearance. Lower canopy a hindrance to traffic and pedestrians	Raise canopy to 3m	40	250		4;3;3;3	1.75w

APPENDIX III: INDIVIDUAL TREE ASSESSMENT OF TREES ON WHITEHALL RD AND WELLINGTON RD

Tag Number	Species	Age class	Category	Vigour	Comments	Preliminary Recommendations	Long Term Potential	DBH (mm)	Height (meter)	Crown spread NESW (meter)	Clear Stem (meter)
1776	Cherry cultivar (*Prunus cv*)	Early Mature	U	Poor	In decline	Fell	<10	100	2.75	1;1;1;1	2e
1777	Field maple (*Acer campestre*)	Young	B2	Good	Crown altered to facilitate road traffic. No visible defects	No action necessary	40	150	3.75	1;1;1;0.5	2n
1778	Norway maple (*Acer platanoides*)	Young	B2	Good	Crown reduced to facilitate utility line clearance. Crown form rounded as a result.	No action necessary	40	140	3.5	2;1;2;2	2.25
1779	Field maple (*Acer campestre*)	Young	B2	Good	Well developed but reduced toward road to facilitate traffic. No visible defects	No action necessary	40	150	4	2;2;2;1	2e
1780	Birch (*Betula pendula*)	Mature	B2	Good	Form slightly altered to facilitate utility line clearance. No visible defects	No action necessary	40	310		3;4;4;3	2s
1781	Turkish Hazel (*Corylus colurna*)	Young	B2	Good	Well developed. No visible defects	No action necessary	40	75	3	1;1;1;0.5	1.75
1782	Norway maple (*Acer platanoides*)	Early Mature	B2	Good	Minor mower damage to base of trunk. Crown form slightly to facilitate utility lines.	No action necessary	30-40	350		2;4;3;4	2.5n
1783	Cherry cultivar (*Prunus cv*)	Mature	B2	Fair	Tip dieback in crown maybe indicative of decline. Crown structure good	No action necessary	15-20	520	3.5	4;2;3;3	2w
1784	*Apple cultivar Malus cv*	Young	B2	Good	Well developed. No visible defects	No action necessary	40	40	3.25	0.3;0.3;0.3;0.3	2e
1785	*Apple cultivar Malus cv*	Young	B2	Good	Well developed. No visible defects	No action necessary	40	40	2.5	0.3;0.3;0.3;0.3	2e
1786	Field maple (*Acer campestre*)	Early Mature	B2	Good	Well developed. No visible defects. Beginning to overlap pavement.	Create more trunk space in pavement	40	180	4.28	2;2;2;2	2n
1787	Field maple (*Acer campestre*)	Young	B2	Good	Well developed with no visible defects	No action necessary	40	120	4	1;1;1;1	1.75e

APPENDIX III: INDIVIDUAL TREE ASSESSMENT OF TREES ON WHITEHALL RD AND WELLINGTON RD

Tag Number	Species	Age class	Category	Vigour	Comments	Preliminary Recommendations	Long Term Potential	DBH (mm)	Height (meter)	Crown spread NESW (meter)	Clear Stem (meter)
1788	London plane (*Platanus orientalis*)	Mature	A2	Good	Large occluded pruning cuts to trunk at 2m to east. Upper canopy well developed. Surface roots impacting on paving and kerb.	No action necessary	40	590		8;6;5;6	2ne
1789	Purple leaf cherry *Prunus nigra 'Cerasifera'*	Mature	C2	Fair	Extensive decay in trunk. Crown exhibiting signs of dieback	No action necessary	<10	260	4	2;1;1;2	1.75e
1790	Swedish whitebeam (*Sorbus aria*)	Mature	C2	Fair	Appears to be suffering from dieback in upper crown.	Monitor degree of decline over	10	310		4;4;4;4	2n
1791	Cordyline (*Cordyline australis*)	Mature	B2	Good	Well developed. No visible defects	No action necessary	10-15	170	3	0.5;0.5;0.5;0.5	2e
1792	Norway maple (*Acer platanoides*)	Mature	B2	Good	Mower impact damage to surface roots. Canopy well structured with no visible defects.	No action necessary	40	410		6;5;5;5	2.5n
1793	Norway maple (*Acer platanoides*)	Mature	B2	Good	Well developed. No visible defects	No action necessary	40	350		6;5;5;6	2.15e
1801	Swedish whitebeam (*Sorbus aria*)	Mature	B2	Good	Well developed. No visible defects	No action necessary	20-30	410	9	3;4;4;4	2.5s
1802	Swedish whitebeam (*Sorbus aria*)	Mature	B2	Good	Well developed. No visible defects	No action necessary	20-30	340	8	4;4;4;4	3n
1803	Swedish whitebeam (*Sorbus aria*)	Mature	B2	Good	Well developed. No visible defects	No action necessary	20-30	410	9	4;4;4;4	2.5n
1804	Swedish whitebeam (*Sorbus aria*)	Mature	B2	Good	Well developed. No visible defects	No action necessary	30-40	320	7	4;4;4;4	2.5n

APPENDIX III: INDIVIDUAL TREE ASSESSMENT OF TREES ON WHITEHALL RD AND WELLINGTON RD

Tag Number	Species	Age class	Category	Vigour	Comments	Preliminary Recommendations	Long Term Potential	DBH (mm)	Height (meter)	Crown spread NESW (meter)	Clear Stem (meter)
1805	Hornbeam (*Carpinus betulus*)	Mature	B2	Good	Well developed. No visible defects	No action necessary	20-30	240	8	4;4;4;4	2n
1806	Wild cherry (*Prunus spp*)	Mature	B2	Good	Trunk with a strong lean toward north but canopy vertical.	No action necessary	10-15	250	6	4;3;1;2	1.75e
1807	Purple leaf cherry (*Prunus nigra*) 'Cerasifera'	Mature	B2	Good	Relatively well developed for species. Multi-stemmed from base	No action necessary	10-15	240	4.5	3;1;2;3	0
1809	Silver maple (*Acer saccharinum*)	Mature	B2	Good	Light deadwood scattered throughout crown. No indicative of decline. Generally well developed	Dead wood	40	440	12	5;5;5;4	2.25w
1810	Cherry cultivar (*Prunus cv*)	Mature	B2	Good	Light suppressed deadwood in crown. Well developed. No visible defects	Dead wood	15-20	340	9	5;4;5;4	2s
1812	Cherry cultivar (*Prunus cv*)	Mature	U	Very Poor	Effectively dead	Fell	0	210	4.5	2;2;2;2	0
1813	Norway maple (*Acer platanoides*)	Mature	B2	Good	Limb die back in centre of crown. Remaining crown appears vigorous with no visible defects	Dead wood	30-40	490		5;5;5;6	2s
1814	Norway maple (*Acer platanoides*)	Mature	B2	Good	An area of included bark at point of limb connection with trunk at 2m to east. Remaining canopy well developed.	Remove limb with included bark	30-40	410	12	5;4;4;5	2.5e
1815	Cherry cultivar (*Prunus cv*)	Mature	B2	Good	A relatively well developed specimen. Trunk with a tight union between stems at 1.5m.	No action necessary	15-20	270	8	4;3;3;3	2.5s
1816	Wild cherry (*Prunus spp*)	Mature	B2	Fair	A sub dominant specimen three stemmed from base. Very heavy ivy growth beginning to swamp tree.	Cut ivy	10-15	340	9	5;1;2;4	2w
1817	Cherry cultivar (*Prunus cv*)	Mature	B2	Good	Three stemmed from base with wide unions between stems. Upper canopy well developed.	No action necessary	20-30	420	9.5	7;4;4;4	2n

APPENDIX III: INDIVIDUAL TREE ASSESSMENT OF TREES ON WHITEHALL RD AND WELLINGTON RD

Tag Number	Species	Age class	Category	Vigour	Comments	Preliminary Recommendations	Long Term Potential	DBH (mm)	Height (meter)	Crown spread NESW (meter)	Clear Stem (meter)
1818	Silver maple (*Acer saccharinum*)	Early Mature	C2	Poor	Deadwood scattered throughout upper canopy indicative of decline	Dead wood	10	400		6;5;4;5	2W
1819	Wild cherry (*Prunus spp*)	Mature	C2	Poor	A sub-dominant specimen. Three stemmed from base with storm damage to one stem.	Dead wood	10	250	5.5	1;2;2;2	2n
1820	Wild cherry (*Prunus spp*)	Early Mature	C2	Fair	A relatively well developed multi-stemmed specimen. Trunk with a strong lean toward west. Upper canopy vertical	No action necessary	10-15	190	6	3;1;1;4	2w
1821	Wild cherry (*Prunus spp*)	Mature	C2	Fair	Trunk at an extreme lean toward west due to competition from neighbouring trees. Upper canopy vertical	No action necessary	10-15	240	5	2;1;2;6	2s
1822	Cherry cultivar (*Prunus cv*)	Mature	C2	Fair	Sub-dominant to neighbouring tree. Crown restricted toward south as a result.	No action necessary	10-15	280	6.5	4;4;0.5;4	N
1823	Cherry cultivar (*Prunus cv*)	Mature	B2	Good	Relatively well developed. Minor age related deadwood in crown.	Dead wood	20-30	370	9	5;5;5;5	2e
1824	Cherry cultivar (*Prunus cv*)	Mature	B2	Good	Well developed. No visible defects	No action necessary	15-20	260	5.5	2;2;2;2	2.5n
1825	*Rowan Sorbus aucuparia*	Early Mature	B2	Good	Well developed. No visible defects	No action necessary	15-20	140	3.5	1;1;1;1	2s
1826	Cherry cultivar (*Prunus cv*)	Mature	B2	Good	A relatively well developed specimen. No visible defects	No action necessary	20-30	260	3.75	2;2;3;2	1.75n
1827	Cherry cultivar (*Prunus cv*)	Mature	U	Dead		Fell	0	450	4.5	2;2;3;3	2.5s
1828	Cherry cultivar (*Prunus cv*)	Mature	B2	Good	A well developed specimen with no visible defects	No action necessary	20-30	420	9	5;5;5;5	3.5n
1829	Rowan (*Sorbus aucuparia*)	Young	C2	Fair	Dieback in upper crown may be indicative of decline.	Dead wood	<10	100	3.25	1;1;1;1	2w

APPENDIX III: INDIVIDUAL TREE ASSESSMENT OF TREES ON WHITEHALL RD AND WELLINGTON RD

Tag Number	Species	Age class	Category	Vigour	Comments	Preliminary Recommendations	Long Term Potential	DBH (mm)	Height (meter)	Crown spread NESW (meter)	Clear Stem (meter)
1830	*False acacia* (*Robinia pseudoacacia*)	Young	C2	Poor	Storm damage in crown. Dieback of limbs throughout crown	Dead wood	<10	100	4	1;1;1;1	2e
1832	Norway maple (*Acer platanoides*)	Mature	C2	Good	A tight union between stems at 2.25m. This is a potential failure point in the tree which should be monitored. Upper canopy well developed.	Monitor point of trunk bifurcation.	10-15	530		5;5;5;4	3e
1833	Norway maple (*Acer platanoides*)	Mature	A2	Good	Well developed. No visible defects	No action necessary	40	480	10	4;4;4;4	2.5w
1835	Norway maple (*Acer platanoides*)	Mature	A2	Good	Well developed. No visible defects	No action necessary	40	330	11	4;4;4;4	2.25w
1836	Norway maple (*Acer platanoides*)	Mature	A2	Good	Crown well developed but slightly congested. Chestnut scale infection present.	No action necessary	40	370	12	3;3;3;3	3w
1837	Norway maple (*Acer platanoides*)	Early Mature	C2	Fair	Upper canopy sparse which may indicate decline.	Monitor	10-15	260	8.5	3;4;3;3	2.25w
1838	Small leaved lime cultivar (*Tilia cordata cv*)	Early Mature	A2	Good	Well developed specimen. No visible defects	No action necessary	40	290	10	4;4;4;4	2.25
1839	Norway maple (*Acer platanoides*)	Mature	A2	Good	A well developed specimen. No visible defects	No action necessary	40	430		6;5;5;5	3w
1840	Elm cultivar (*Ulmus cv*)	Early Mature	C2	Good	Excavations at base of tree to west may have resulted in extensive root loss. Basal bark damage probably historic mower impact damage. Centre of upper canopy removed to facilitate utility line clearance	Monitor following root damage	15-20	290	9	4;4;4;3	1.75e

APPENDIX III: INDIVIDUAL TREE ASSESSMENT OF TREES ON WHITEHALL RD AND WELLINGTON RD

Tag Number	Species	Age class	Category	Vigour	Comments	Preliminary Recommendations	Long Term Potential	DBH (mm)	Height (meter)	Crown spread NESW (meter)	Clear Stem (meter)
1841	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Recent bark damage during excavation works adjacent to tree. Centre of canopy removed to facilitate utility line clearance	No action necessary	30-40	260	9	3;4;3;3	2w
1842	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Well developed. Centre of crown removed to facilitate utility line clearance.	No action necessary	30-40	320	9	4;4;4;3	1.75e
1842	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	A small amount of damage to lower crown to west. Centre of upper canopy removed to facilitate utility line clearance.	No action necessary	30-40	330	9	4;4;4;4	2e
1843	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Well developed. Partial crown reduction to facilitate utility line clearance	No action necessary	30-40	210	9	4;3;3;3	2n
1844	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Relatively well developed. Centre of crown removed to facilitate utility line clearance.	No action necessary	30-40	230	9	3;4;3;3	2e
1845	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Relatively well developed. Centre of crown removed for utility line clearance.	No action necessary	30-40	260	9	3.5;4;4;3.5	2w
1846	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Tight unions between stems at 2m. Centre of canopy removed for utility line clearance.	No action necessary	30-40	240	9	3;4;3;3	2e
1847	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Well developed. Centre of canopy removed to facilitate utility line clearance. No visible defects	No action necessary	40	290	8	4;5;4;4	2e
1854	Norway maple (*Acer platanoides*)	Early Mature	B2	Good	Well developed. No visible defects but centre of crown removed to facilitate utility services. Lower limbs over road with potential to impact on cyclists and traffic.	Raise canopy over road to 3m	40	240	10	4;4;4;4	1.5w
1855	Rowan cultivar *Sorbus aucuparia cv*	Mature	B2	Good	Well developed. No visible defects	No action necessary	20-30	270	6.5	3;3;3;3	2.25e

APPENDIX III: INDIVIDUAL TREE ASSESSMENT OF TREES ON WHITEHALL RD AND WELLINGTON RD

Tag Number	Species	Age class	Category	Vigour	Comments	Preliminary Recommendations	Long Term Potential	DBH (mm)	Height (meter)	Crown spread NESW (meter)	Clear Stem (meter)
1856	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Extensive mower impact damage to base of trunk. Chestnut scale infection in lower canopy. Crown well developed. Lower limbs with potential to impact on cyclists and vehicles.	Raise canopy to 3m	30-40	250	10	2;2.5;2;2	1.75
1857	Elm cultivar (*Ulmus cv*)	Young	C2	Fair	Extensive bark damage to trunk may account for limited development. Long term potential reduced as a result.	No action necessary	10-15	150	6.5	1;1;1;1	1.75n
1858	Norway maple (*Acer platanoides*)	Early Mature	B2	Good	Extensive mower impact damage at base of trunk and to surface roots to north. Crown well developed.	No action necessary	30-40	350	8	4;4;4;4	2s
1859	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Well developed. No visible defects.	Remove basal suckers	40	260	9.5	3;3;3;3	2e
1860	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Well developed. No visible defects.	No action necessary	40	240		3;3;3;3	1.75e
1861	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Well developed. No visible defects.	No action necessary	40	200	9	1.5;2;2;1.5	2e
1862	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Well developed. No visible defects.	No action necessary	40	220	9.5	2;2;2;2	1.75n
1863	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Well developed. No visible defects.	No action necessary	40	230	9.5	3;3;3;3	2w
1864	Elm cultivar (*Ulmus cv*)	Young	B2	Good	Well developed with no visible defects	No action necessary	40	190	9.5	2;2;2;2	1.75e
1865	Elm cultivar (*Ulmus cv*)	Young	B2	Good	Mower impact damage at base. Crown well developed with no visible defects	No action necessary	40	160	7.5	2;2;2;2	1.75e
1868	Elm cultivar (*Ulmus cv*)	Early Mature	U	Dead	Failed	Remove and replace	0	240	9.5	2;2;2;2	1.75e
1869	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Mower impact damage to west. Canopy well developed. No visible defects	No action necessary	30-40	190	8.5	2;2;2;2	2w

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Tag Number	Species	Age class	Category	Vigour	Comments	Preliminary Recommendations	Long Term Potential	DBH (mm)	Height (meter)	Crown spread NESW (meter)	Clear Stem (meter)
1870	Apple cultivar *(Malus cv)*	Early Mature	C2	Good	Exhibits a lean to the north.	No action necessary	10-15	230	8		
1871	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Well developed with no visible defects.	No action necessary	40	220	9	2;2;2;2	2w
1872	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Well developed with no visible defects.	No action necessary	40	220	9	2;2;2;2	2w
1873	Birch (*Betula pendula*)	Early Mature	B2	Good	Well developed with no visible defects.	No action necessary	20-30	200	8	1.5;1.5; 1.5;1.5	
1874	Norway maple (*Acer platanoides*)	Mature	B2	Good	Trunk co-dominate from 1.5m with wide union present. Well developed with no visible defects.	No action necessary	30-40	380	12	3;3;3;3	3n
1885	Hawthorn (*Crataegus monogyna*)	Mature	B2	Good	Trunk kinked but crown well developed with no visible defects	No action necessary	30-40	190	4	3;3;3;3	2w
1886	Hawthorn (*Crataegus monogyna*)	Mature	B2	Good	Well developed with no visible defects	No action necessary	30-40	230	7	3;2;2;5	2n
1887	Ash (*Fraxinus excelsior*)	Mature	A2	Good	Well developed. No visible defects	No action necessary	40	420	13	4;5;4;5	3sw
1888	Ash (*Fraxinus excelsior*)	Mature	A2	Good	Well developed. No visible defects	No action necessary	40	590	12	5;6;6;6	2.5s
1889	Small leaved lime cultivar (*Tilia cordata cv*)	Early Mature	A2	Good	Minor localised insignificant decay at points of lower limb removal. Upper canopy well developed with no visible defects	No action necessary	40	320	11	4;4;4;4	2sw

APPENDIX III: INDIVIDUAL TREE ASSESSMENT OF TREES ON WHITEHALL RD AND WELLINGTON RD

Tag Number	Species	Age class	Category	Vigour	Comments	Preliminary Recommendations	Long Term Potential	DBH (mm)	Height (meter)	Crown spread NESW (meter)	Clear Stem (meter)
1890	Norway maple (*Acer platanoides*)	Early Mature	B2	Good	Minor mower impact damage at base of trunk. Tight unions between stems at 1.75m with potential for becoming structurally weak. Upper canopy relatively well developed.	No action necessary	20-30	300	11	4;3;3;3	2.25n
1891	*London plane* (*Platanus orientalis*)	Early Mature	A2	Good	Well developed. No visible defects.	No action necessary	40	340	11	5;5;4;5	2.5w
1892	Norway maple (*Acer platanoides*)	Early Mature	B2	Good	Minor mower impact damage at base of trunk. Upper canopy well developed with no visible defects.	No action necessary	30-40	310	9.5	3;3;3;4	1.75w
1893	Norway maple (*Acer platanoides*)	Early Mature	B2	Good	Tight union between stems at 2m could become structurally weak in time. Chestnut scale present in lower crown. Upper canopy well developed.	No action necessary	20-30	290	9	3;3;3;3	2.25n
1894	Small leaved lime cultivar (*Tilia cordata cv*)	Early Mature	B2	Good	Well developed. No visible defects	No action necessary	40	460	12	5;6;5;5	1.75e
1895	*London plane* (*Platanus orientalis*)	Mature	A2	Good	A well developed specimen. No visible defects	No action necessary	40	420	11	5;7;5;5	2.15e
1896	Norway maple (*Acer platanoides*)	Young	B2	Good	Mower impact damage at base with localised decay. Upper canopy well developed.	No action necessary	20-30	230	8	3;3;2;3	2e
1897	Ash (*Fraxinus excelsior*)	Mature	A2	Good	Well developed. No visible defects	No action necessary	40	430	13	5;5;5;5	2.5e
1898	Norway maple (*Acer platanoides*)	Young	C2	Good	Trunk structurally weak at point of co dominance at 2m. Canopy restricted toward east due to competition from neighbouring trees. Chestnut scale infestation present.	No action necessary	10-15	200	8	3;1;3;3	2.5s

APPENDIX III: INDIVIDUAL TREE ASSESSMENT OF TREES ON WHITEHALL RD AND WELLINGTON RD

Tag Number	Species	Age class	Category	Vigour	Comments	Preliminary Recommendations	Long Term Potential	DBH (mm)	Height (meter)	Crown spread NESW (meter)	Clear Stem (meter)
1899	Norway maple (*Acer platanoides*)	Early Mature	B2	Good	Well developed. No visible defects	No action necessary	40	280	7.5	3;4;4;4	2w
1900	Horse chestnut (*Aesculus hippocastanum*)	Early Mature	C2	Poor	Bleeding canker infection visible at an advanced stage.	No action necessary	10	330	8	4;4;4;4	2.15n
1901	Norway maple (*Acer platanoides*)	Early Mature	B2	Good	Chestnut scale infection present. Upper canopy well developed.	No action necessary	40	250	8	4;4;4;4	2w
1902	Cherry cultivar (*Prunus cv*)	Mature	B2	Good	Well developed. No visible defects	No action necessary	20-30	210	3.5	3;3;3;3	1.75n
1903	Cherry cultivar (*Prunus cv*)	Mature	B2	Good	Crown restricted toward west due to exposure. No visible defects	No action necessary	20-30	170	3	3;3;3;1	2e
1904	Norway maple (*Acer platanoides*)	Early Mature	B2	Good	Chestnut scale infestation present. Crown well developed. No visible defects	No action necessary	40	280		3;3;2;3	2n
1905	Norway maple (*Acer platanoides*)	Early Mature	C2	Fair	Leaves relatively small indicating low vigour. A structurally point developing between stems at 2m to north.	No action necessary	10-15	240	7	3;3;3;3	2w
1906	Norway maple (*Acer platanoides*)	Early Mature	B2	Good	Relatively well developed. Could benefit from removal of basal suckers	Remove basal suckers	30-40	240	8	3;2;3 3	0
1907	Ash (*Fraxinus excelsior*)	Early Mature	B2	Good	Minor mower impact damage at base. Upper canopy well developed.	No action necessary	30-40	280	8.5	4;4;3;4	2.5w
1908	Norway maple (*Acer platanoides*)	Early Mature	U	Very Poor	A large co dominant stem has failed. Remaining tree liable for failure	Fell	<10	210	4.5	2;3;2;2	2.25w
1909	Ash (*Fraxinus excelsior*)	Early Mature	B2	Good	Well developed. No visible defects	No action necessary	40	320	12.5	4;4;3;3	2.5e

APPENDIX III: INDIVIDUAL TREE ASSESSMENT OF TREES ON WHITEHALL RD AND WELLINGTON RD

Tag Number	Species	Age class	Category	Vigour	Comments	Preliminary Recommendations	Long Term Potential	DBH (mm)	Height (meter)	Crown spread NESW (meter)	Clear Stem (meter)
1910	Norway maple (*Acer platanoides*)	Young	B2	Good	Minor mower impact damage at base. Upper crown relatively well developed	No action necessary	30-40	120	5.5	2;1;1;0.5	2n
1912	Norway maple (*Acer platanoides*)	Early Mature	B2	Good	Well developed. No visible defects	No action necessary	40	250	8	4;3;3;3	2nw
1913	Ash (*Fraxinus excelsior*)	Early Mature	B2	Good	Well developed. No visible defects	No action necessary	40	280	11.5	4;4;4;4	2.5n
1914	Drummonds maple (*Acer platanoides*) 'Drumondii'	Young	C2	Good	Several mower impact damage points at base. Canopy well developed	No action necessary	15-20	140	6	2;2;2;2	2n
1915	Norway maple (*Acer platanoides*)	Early Mature	B2	Good	Chestnut scale infestation present. Crown well developed.	No action necessary	40	300	8	4;4;4;4	2e
1916	Norway maple (*Acer platanoides*)	Early Mature	B2	Good	Crown well developed. No visible defects.	No action necessary	40	280	8.5	4;4;4;4	2n
1917	Norway maple (*Acer platanoides*)	Early Mature	B2	Good	Well developed. No visible defects	No action necessary	40	240	8	3;3;3;2	2e
1917	Norway maple (*Acer platanoides*)	Early Mature	B2	Good	Well developed. No visible defects.	No action necessary	40	350	9	4;4;4;4	2n
1918	Ash (*Fraxinus excelsior*)	Mature	B2	Good	Well developed. No visible defects	No action necessary	40	390	11.5	6;6;6;6	2.5e
1919	Norway maple (*Acer platanoides*)	Early Mature	B2	Good	Well developed. No visible defects	No action necessary	40	260	10	3;3;3;3	2e

APPENDIX III: INDIVIDUAL TREE ASSESSMENT OF TREES ON WHITEHALL RD AND WELLINGTON RD

Tag Number	Species	Age class	Category	Vigour	Comments	Preliminary Recommendations	Long Term Potential	DBH (mm)	Height (meter)	Crown spread NESW (meter)	Clear Stem (meter)
1920	Norway maple (*Acer platanoides*)	Early Mature	B2	Good	Well developed. No visible defects	No action necessary	40	330	13	4;4;3;4	2w
1921	Ash (*Fraxinus excelsior*)	Mature	B2	Fair	A gnarled specimen which may have origins in a former hedgerow. Bacterial canker infection and small pockets of decay present in trunk.	No action necessary	20-30	380	4.5	5;5;2;3	N
1922	Norway maple (*Acer platanoides*)	Early Mature	C2	Good	A crack is appearing at main fork at 2m. Remaining crown appears sound.	Remove north western stem from main fork.	20-30	390	12.5	5;5;5;4	2n
1923	Norway maple (*Acer platanoides*)	Early Mature	B2	Good	Well developed. Crown restricted toward north due to competition from neighbouring trees. No visible defects.	No action necessary	30-40	260	9.5	2;4;4;4	2nw
1924	Norway maple (*Acer platanoides*)	Early Mature	B2	Good	Well developed. No visible defects	No action necessary	40	270	10.5	3;3;3;4	2e
1925	Ash (*Fraxinus excelsior*)	Mature	A2	Good	Well developed. No visible defects	No action necessary	40	430	16	4;4;5;4	2.5nw
1926	Norway maple (*Acer platanoides*)	Mature	A3	Good	Well developed. No visible defects	No action necessary	40	470	10	6;6;5;6	2.25w
1927	Ash (*Fraxinus excelsior*)	Early Mature	B2	Good	Well developed. No visible defects.	No action necessary	40	250	6	3;4;3;3	1.75e
1928	*Purple leaved maple* (*Acer platanoides*) *'Atropurpurea'*	Early Mature	B2	Good	Mower impact damage at base. Upper canopy well developed.	No action necessary	30-40	230	7	3;3;3;3	2w

APPENDIX 1II: INDIVIDUAL TREE ASSESSMENT OF TREES ON WHITEHALL RD AND WELLINGTON RD

Tag Number	Species	Age class	Category	Vigour	Comments	Preliminary Recommendations	Long Term Potential	DBH (mm)	Height (meter)	Crown spread NESW (meter)	Clear Stem (meter)
1929	Norway maple (*Acer platanoides*)	Early Mature	B2	Good	Well developed. No visible defects	No action necessary	40	430	10	5;5;5;5	2.5n
1930	Norway maple (*Acer platanoides*)	Early Mature	B2	Good	Well developed. No visible defects	No action necessary	40	290	10	4;4;4;3	2e
1931	*Purple leaved maple* (*Acer platanoides*) *'Atropurpurea'*	Early Mature	B2	Good	Well developed. No visible defects	No action necessary	40	380	10	4;4;4;4	2w
1932	Norway maple (*Acer platanoides*)	Early Mature	B2	Good	Well developed. No visible defects	No action necessary	40	470	12	6;6;4;5	2.25s
1933	Norway maple (*Acer platanoides*)	Young	B2	Good	Well developed. No visible defects	No action necessary	40	190	6.5	3;2;2;2	2s
1934	Norway maple (*Acer platanoides*)	Early Mature	C2	Poor	Storm damage in upper crown and decay in trunk to east at point of limb failure.	Dead wood	10	310	8.5	4;4;4;4	2.25w
1935	Norway maple (*Acer platanoides*)	Early Mature	C2	Fair	Storm damage in crown to east at 2.5m. Upper canopy somewhat sparse.	No action necessary	10-15	290	9	4;3;3;4	2w
1936	Norway maple (*Acer platanoides*)	Early Mature	U	Very Poor	Extensive storm damage in crown. Remaining crown with potential for failure	Fell	<10	410	10	5;5;4;3	2.15e
1937	*London plane* (*Platanus orientalis*)	Early Mature	A2	Good	Well developed. No visible defects	No action necessary	40	350	11	4;4;3;5	3w
1938	Norway maple (*Acer platanoides*)	Early Mature	B2	Good	Well developed. No visible defects	No action necessary	40	270	7	4;4;4;4	2e

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Tag Number	Species	Age class	Category	Vigour	Comments	Preliminary Recommendations	Long Term Potential	DBH (mm)	Height (meter)	Crown spread NESW (meter)	Clear Stem (meter)
1939	Norway maple (*Acer platanoides*)	Early Mature	B2	Good	Well developed. No visible defects	No action necessary	40	310	10.5	4;4;4;4	2w
1940	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Mower impact damage to surface roots. Upper canopy well developed. No visible defects	No action necessary	40	370	12.5	5;4;4;4	2.15w
1941	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Mower impact damage to surface roots	No action necessary	40	320	12	4;3;2;3	2.5n
1942	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Well developed. No visible defects	No action necessary	40	320	12.5	3;3;3;2	2.25w
1943	Birch (*Betula pendula*)	Early Mature	B2	Good	Well developed. No visible defects	No action necessary	30-40	200	8	3;3;3;2	2.15e
1944	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Mower impact damage to surface roots. Upper canopy well developed. No visible defects.	No action necessary	30-40	330	13	4;4;4;3	2.25n
1945	Birch (*Betula pendula*)	Early Mature	B2	Good	Well developed. No visible defects	No action necessary	40	210	7	4;3;3;3	2.25n
1946	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Well developed. No visible defects	No action necessary	40	410	14.5	4;4;4;4	2s
1947	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Mower damage to surface roots. Upper canopy well developed with no visible defects. Canopy with potential to impact on cyclists.	Raise canopy to avoid cyclists	30-40	330	11	4;4;4;4	2e
1949	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Mower damage to surface roots. Crown well developed with no visible defects	No action necessary	40	340	13	4;2;3;4	2.5n
1950	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Mower impact damage to surface roots. Upper canopy well developed.	No action necessary	40	320	14	4;3;2;2	2.15n

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Tag Number	Species	Age class	Category	Vigour	Comments	Preliminary Recommendations	Long Term Potential	DBH (mm)	Height (meter)	Crown spread NESW (meter)	Clear Stem (meter)
1951	Hornbeam *Carpinus betulus*	Early Mature	B2	Good	Crown restricted toward east due to competition from neighbouring tree. Heavy ivy growth obscuring view for assessment	No action necessary	40	230	7	3;1;3;3	1.25w
1952	Hornbeam *Carpinus betulus*	Young	B2	Fair	Relatively well developed. Crown restricted toward south due to competition from neighbouring tree	No action necessary	20-30	210	7	3;3;2;1	0.5n
1953	Cherry cultivar (*Prunus cv*)	Mature	B2	Good	A well developed specimen. No visible defects	No action necessary	30-40	200	3.5	3;3;3;3	1.75w
1954	Field maple (*Acer campestre*)	Young	U	Fair	Bark loss extensive and will ultimately lead to death.	Fell	<10	130	7.5	2;2;2;2	1.5n
1955	Hornbeam *Carpinus betulus*	Young	B2	Good	Multi-stemmed from 0.5m with pockets of decay present. None significant at present. Crown relatively well developed	No action necessary	20-30	160	7.5	1;2;1;2	0.5w
1956	Hornbeam *Carpinus betulus*	Young	B2	Good	Well developed. No visible defects	No action necessary	40	170	7.5	2;2;1;1	1.75n
1957	Cherry cultivar (*Prunus cv*)	Mature	B2	Good	Co-dominant from base. Minor abrasions to trunk with a larger area of decay associated with limb loss at 1.25m to north. Upper canopy well developed.	No action necessary	15-20	250	4	3;4;3;3	1.25s
1958	Birch (*Betula pendula*)	Early Mature	U	Good	Extensive decay in trunk.	Fell	<10	220	9	3;3;3;3	2n
1959	Elm cultivar (*Ulmus cv*)	Mature	B2	Good	Mower impact damage to surface roots. Upper canopy well developed with no visible defects	No action necessary	30-40	420	16	4;4;3;3	1.75w
1960	Birch (*Betula pendula*)	Early Mature	B2	Good	Well developed. No visible defects	No action necessary	40	200	9	3;3;3;3	2.15w
1961	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Well developed. No visible defects	No action necessary	40	290	11	4;4;4;3	1.5n

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Tag Number	Species	Age class	Category	Vigour	Comments	Preliminary Recommendations	Long Term Potential	DBH (mm)	Height (meter)	Crown spread NESW (meter)	Clear Stem (meter)
1962	Birch (*Betula pendula*)	Early Mature	B2	Good	Well developed. No visible defects.	No action necessary	30-40	200	12	3;3;3;2	2.5nw
1963	Birch (*Betula pendula*)	Early Mature	B2	Good	Well developed. No visible defects	No action necessary	30-40	270	15	4;4;3;2	2sw
1964	Elm cultivar (*Ulmus cv*)	Early Mature	C2	Fair	Multiple mower impacts appear to have reduced the vigour of this tree. Trunk with a strong lean to north.	No action necessary	10	220	9	4;4;2;1	1.75e
1965	Birch *cultivar* *Betula cv*	Early Mature	B2	Good	Well developed. No visible defects	No action necessary	30-40	230	8.5	3;3;3;2	2.15e
1966	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Mower impact damage to surface roots. Upper canopy restricted toward west due to competition from neighbouring trees	No action necessary	20-30	280	12	4;4;4;2	1.75e
1967	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Well developed. No visible defects	No action necessary	40	280	11.5	3;3;3;3	1.75n
1968	Birch (*Betula pendula*)	Early Mature	B2	Good	Well developed. No visible defects	No action necessary	30-40	220	9	3;3;3;3	3w
1969	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Wide spreading rather than fastigiate cultivar. Evidence of past bark damage but occluded at present.	No action necessary	30-40	240	9.5	4;4;3;3	2e
1970	Birch (*Betula pendula*)	Early Mature	B2	Good	Well developed. No visible defects	No action necessary	30-40	190	8	3;3;3;3	2.25w
1971	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Mower impact damage to surface roots. Crown well developed. No visible defects	No action necessary	30-40	230	10	3;3;3;2	1.5w
1972	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Well developed. Mower impact damage to surface roots. Crown well developed. No visible defects	No action necessary	40	260	10	2;3;2;2	1.75e
1973	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Well developed. No visible defects	No action necessary	40	240	8.25	2;2;2;1	1.5e

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Tag Number	Species	Age class	Category	Vigour	Comments	Preliminary Recommendations	Long Term Potential	DBH (mm)	Height (meter)	Crown spread NESW (meter)	Clear Stem (meter)
1974	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Mower impact damage at base. Lower limbs with potential to impact on cyclists. Chestnut scale infestation present.	Raise canopy to 2m	40	210	8	2;3;2;2	1.25w
1975	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Well developed. No visible defects	Raise canopy to 2m	40	220	8.5	2;3;2;1	0
1976	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Mower impact damage at base. Upper canopy well developed. Lower limbs with potential to impact on cyclists	Raise canopy to 3m	40	250	8.5	2;3;2;2	0.4
1977	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Mower impact damage to surface roots. Upper canopy well developed	No action necessary	40	340		5;5;5;5	2.25w
1978	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Mower impact damage to surface roots. Upper canopy well developed	No action necessary	40	370	13	3;2;2;4	1.75w
1979	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Mower impact damage to surface roots. Canopy well developed	No action necessary	40	390	13.5	3;3;3;4	2n
1980	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Mower impact damage to surface roots. Crown well developed but restricted toward east due to competition from neighbouring hedge	No action necessary	40	440	13	5;3;4;5	2.15e
1981	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Mower impact damage to base of tree and surface roots. Upper canopy well developed.	No action necessary	40	330	13	3;3;3;4	2.15e
1982	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Minor mower impact damage to base of trunk. Crown well developed	No action necessary	40	410	14	4;4;4;4	2.15w
1983	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Mower impact damage to surface roots. Upper canopy well developed	No action necessary	40	410	13	3;3;3;4	2.25e
1984	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Mower impact damage to base of trunk. Upper canopy well developed.	No action necessary	40	350	11.5	4;4;4;4	2.5w
1985	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Mower impact damage to surface roots. Upper crown well developed.	No action necessary	40	300	10.5	2;3;2;3	2.15n

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Tag Number	Species	Age class	Category	Vigour	Comments	Preliminary Recommendations	Long Term Potential	DBH (mm)	Height (meter)	Crown spread NESW (meter)	Clear Stem (meter)
1986	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Large diameter surface roots damaged by mower impact. Canopy well developed	No action necessary	40	260	8.2	3;3;3;3	2.25e
1987	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Mower impact damage to base of trunk. Upper canopy well developed. Chestnut scale infestation in crown.	No action necessary	40	260	7.5	3;3;2;3	2.15n
1988	Elm cultivar (*Ulmus cv*)	Young	B2	Fair	This tree unless a replacement has not grown to the same extent as others of the same type. No visible defects but heavy chestnut scale infestation may be indicative of low vigour	No action necessary	20-30	170	7	1;1;1;1.5	1.75e
1989	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Extensive mower damage to surface roots. Crown well developed	No action necessary	40	320	13	3;3;2;3	2.15w
1990	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Extensive mower impact damage to surface roots. Crown well developed.	No action necessary	40	370	13	3;3;3;3	2;15e
1991	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Extensive mower impact damage to surface roots. Upper canopy well developed.	No action necessary	40	380	14	3;4;3;3	2.5w
1992	Weeping willow (*Salix babylonica* 'pendula')	Mature	B2	Good	Two large limbs removed at 0.5m to east. Localised decay present at one cut point. Mower impact damage to surface roots. Upper canopy well developed	No action necessary	15-20	1030	17.5	6;5;7;7	1.75w
1993	Cherry cultivar (*Prunus cv*)	Early Mature	B2	Good	Well developed. No visible defects.	No action necessary	30-40	240	3.5	4;4;4;4	1.5n
1994	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Mower impact to surface roots	No action necessary	40	390	16	3;4;4;4	1.75e
1995	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Mower impact damage to base of trunk. Crown well developed	No action necessary	40	210	8.5	2;2;2;2	2.15w
1996	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Mower impact damage to surface roots. Crown well developed.	No action necessary	40	410	12.5	4;4;4;4	2.25w

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Tag Number	Species	Age class	Category	Vigour	Comments	Preliminary Recommendations	Long Term Potential	DBH (mm)	Height (meter)	Crown spread NESW (meter)	Clear Stem (meter)
1997	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Mower impact damage to surface roots. Upper canopy well developed with no visible defects	No action necessary	40	330	12	2;3;2;2.5	2.25e
1998	Elm cultivar (*Ulmus cv*)	Young	C2	Good	Mower impact damage to base of trunk has led to localised decay development and may account for limited growth of tree. Upper canopy limited in extent but with no visible defects	Remove lower limb to east	15-20	130	4.5	1;1.5;1;1	1.5w
1999	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Extensive mower impact to surface roots and base of trunk. Canopy well developed.	No action necessary	20-30	270	9.5	2;3;2;3	1.75e
2000	Elm cultivar (*Ulmus cv*)	Young	C2	Fair	Extensive mower impact damage at base of trunk may have resulted in limited development of tree. No visible defects in crown.	No action necessary	10-15	190	8	2;1;2;2	1.75e
2301	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Mower impact to surface roots. Crown well developed.	No action necessary	40	290	10	3;3;3;2	1.75e
2302	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Mower impact to surface roots and base of trunk. Upper canopy well developed	No action necessary	40	260	11	3;3 3 3	2.25e
2303	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Mower impact damage to surface roots. Canopy well developed.	No action necessary	40	450		4;4;4;3	2.5w
2304	Pedunculate oak (*Quercus robur*)	Early Mature	B2	Good	Well developed. No visible defects	No action necessary	40	290	10	4;5;4;4	3n
2305	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Mower impact damage to base of trunk. Crown well developed.	No action necessary	30-40	240	9.5	3;3;3;3	1.75e
2306	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Well developed. No visible defects	No action necessary	40	300	11	3;3;3;3	2.25e

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Tag Number	Species	Age class	Category	Vigour	Comments	Preliminary Recommendations	Long Term Potential	DBH (mm)	Height (meter)	Crown spread NESW (meter)	Clear Stem (meter)
2307	Hybrid black poplar (*Populus nigra*) *cv*	Mature	C2	Good	A large specimen which appears to be impacting on boundary wall to north. A large limb removed toward north and storm damage has occurred to west at 3m. Canopy now opened as a result.	No action necessary	42278	710	14	8;6;8;8	2e
2308	Fastigiate Hornbeam (*Carpinus betulus*) 'Fastigiata'	Early Mature	B2	Good	Minor mower impact damage to surface roots. Crown well developed.	No action necessary	40		7.5	3;3;3;4	1.25w
2309	*London plane* (*Platanus orientalis*)	Early Mature	B2	Good	Well developed. No visible defects	No action necessary	40	350	8.5	3;3;3;3	4e
2310	Elm cultivar (*Ulmus cv*)	Early Mature	B2	Good	Mower impact damage to surface roots and base of trunk. Canopy well developed.	No action necessary	20-30	330	13.5	3;3;3;3	2.15e
2311	Sycamore (*Acer pseudoplatanus*)	Early Mature	B2	Good	Slight congestion in lower crown. No visible defects	No action necessary	30-40	290	11	3;3;2;3	2.5n
2312	Sycamore (*Acer pseudoplatanus*)	Early Mature	C2	Fair	A sub dominant specimen with poor form.	Cut ivy	10-15	250	7	1;1;1;4	3w
2313	Sycamore (*Acer pseudoplatanus*)	Mature	B2	Good	Well developed specimen but very heavy ivy growth obscuring view for assessment	Cut ivy	30-40	350	11	5;5;5;6	2.5w
2314	Ash (*Fraxinus excelsior*)	Young	B2	Fair	A tall slender slightly sub dominant specimen.	No action necessary	20-30	150	11	1;1;2;3	2.5w
2315	Norway maple (*Acer platanoides*)	Early Mature	B2	Good	A relatively well developed specimen. Crown limited in extent toward east.	No action necessary	20-30	230	11	4;0;2;4	2w

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Tag Number	Species	Age class	Category	Vigour	Comments	Preliminary Recommendations	Long Term Potential	DBH (mm)	Height (meter)	Crown spread NESW (meter)	Clear Stem (meter)
2316	Norway maple (*Acer platanoides*)	Early Mature	C2	Fair	A sub dominant specimen becoming swamped in ivy	Cut ivy	42278	200	7	1;1;1;0	3n
2317	Ash (*Fraxinus excelsior*)	Young	C2	Good	A tall slender sub dominant specimen. Very heavy ivy growth up trunk.	Cut ivy	42278	200	11	1;2;1;1	1.5w
2318	Ash (*Fraxinus excelsior*)	Early Mature	B2	Good	A tall slender relatively well developed specimen.	No action necessary	30-40	250	11	2;2;2;2	6n
2319	Norway maple (*Acer platanoides*)	Early Mature	B2	Good	Well developed. No visible defects	No action necessary	30-40	300	12	4;3;3;4	2.15e
2320	Ash (*Fraxinus excelsior*)	Young	C2	Fair	Slightly sub dominant with crown restricted toward north and east due to competition from neighbouring trees.	No action necessary	15-20	190	11	1;1;3;3	2.5e
2321	Norway maple (*Acer platanoides*)	Early Mature	B2	Good	Very heavy ivy growth up trunk obscuring view for assessment. Canopy restricted toward west due to competition from neighbouring trees.	Cut ivy	20-30	220	11	3;3;2;1	2.5e
2322	Norway maple (*Acer platanoides*)	Early Mature	C2	Fair	A tall slender slightly sub dominant specimen with crown restricted toward east.	Cut ivy	10-15	210	11	2;1;2;2	2s
2323	Ash (*Fraxinus excelsior*)	Early Mature	B2	Good	A tall slender specimen with crown mainly oriented toward west as a result	No action necessary	20-30	240	11	2;1;1;4	2w
2324	Ash (*Fraxinus excelsior*)	Early Mature	B2	Good	Relatively well developed. Crown restricted toward east due to competition from neighbouring trees.	No action necessary	30-40	270	12	1;1;3;4	2.15w
2325	Norway maple (*Acer platanoides*)	Early Mature	C2	Fair	Sub dominant to neighbouring trees. Crown concentrated toward west as a result.	No action necessary	42278	190	11	1;1;2;3	2.5w

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Tag Number	Species	Age class	Category	Vigour	Comments	Preliminary Recommendations	Long Term Potential	DBH (mm)	Height (meter)	Crown spread NESW (meter)	Clear Stem (meter)
2326	Norway maple (*Acer platanoides*)	Young	U	Dead		Fell	0	150	5	0;0;0;0	0
2327	Norway maple (*Acer platanoides*)	Early Mature	C2	Fair	Becoming swamped in ivy making assessment impossible.	Cut ivy and re-assess	15-20	240	11	3;3;3;3	2.5n
2329	Norway maple (*Acer platanoides*)	Early Mature	B2	Good	Well developed. No visible defects	No action necessary	30-40	290	12	3;2;3;4	3e
2330	*Alder Alnus cordata*	Early Mature	B2	Good	Twin stemmed from base with a tight union between stems. Bark damage to trunk with localised decay. Upper canopy relatively well developed.	No action necessary	20-30	440	12	3;2;3;3	2.15n
2331	Ash (*Fraxinus excelsior*)	Early Mature	B2	Good	Relatively well developed. No visible defects	No action necessary	30-40	230	12	3;2;2;2	2.5e
2332	Ash (*Fraxinus excelsior*)	Early Mature	B2	Good	Very heavy ivy growth obscuring view for assessment. Crown relatively well developed.	Cut ivy and re-assess	30-40	320	12	4;4;3;2	4n
2333	Ash (*Fraxinus excelsior*)	Early Mature	B2	Good	A relatively well developed specimen. Very heavy ivy growth obscuring view for assessment.	Cut ivy and re-assess	30-40	320	12	4;3;3;3	5e
2334	Norway maple (*Acer platanoides*)	Early Mature	B2	Good	Well developed. No visible defects.	No action necessary	30-40	330	12	3;3;4;3	2w
2335	Ash (*Fraxinus excelsior*)	Young	U	Very Poor	In decline	Fell	0	110	11	1;1;1;0.5	NA
2336	Ash (*Fraxinus excelsior*)	Early Mature	B2	Good	Relatively well developed. Crown restricted toward north due to competition from neighbouring trees.	No action necessary	30-40	240	12	1;3;3;4	2s

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Tag Number	Species	Age class	Category	Vigour	Comments	Preliminary Recommendations	Long Term Potential	DBH (mm)	Height (meter)	Crown spread NESW (meter)	Clear Stem (meter)
2337	Norway maple (*Acer platanoides*)	Young	U	Very Poor	In a state of decline	Fell	0	110	6	1;1;1;1	NA
2338	Norway maple (*Acer platanoides*)	Early Mature	B2	Very Poor	In a state of decline	Fell	20-30	200	6	1;1;2;4	NA
2339	Ash (*Fraxinus excelsior*)	Young	C2	Fair	Tall slender. Limited crown development	No action necessary	10-15	150	12	1;1;1;1	10n
2340	Ash (*Fraxinus excelsior*)	Early Mature	B2	Good	A tall slender relatively well developed specimen.	No action necessary	15-20	190	12	1;1;1;1	10n
2341	Ash (*Fraxinus excelsior*)	Young	C2	Fair	Tall very slender.	No action necessary	42278	170	12	1;1;1;1	11e
2342	Ash (*Fraxinus excelsior*)	Young	C2	Fair	Tall very slender. Suitable for retention within current shelter only	No action necessary	10	140	12	1;1;1;0	9n
2343	Norway maple (*Acer platanoides*)	Early Mature	B2	Good	Well developed. No visible defects	No action necessary	30-40	290	11	2;3;3;4	3w
2344	Norway maple (*Acer platanoides*)	Early Mature	B2	Good	A tall slender specimen. No visible defects	No action necessary	15-20	190	12	2;2;2;3	8w
2345	Norway maple (*Acer platanoides*)	Early Mature	B2	Good	Crown restricted toward north. No visible defects.	No action necessary	30-40	350	11	1;3;4;4	2w
2346	Ash (*Fraxinus excelsior*)	Early Mature	B2	Good	Tall slender specimen. No visible defects.	No action necessary	30-40	200	12	1;1;2;2	7n

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Tag Number	Species	Age class	Category	Vigour	Comments	Preliminary Recommendations	Long Term Potential	DBH (mm)	Height (meter)	Crown spread NESW (meter)	Clear Stem (meter)
2347	Norway maple (*Acer platanoides*)	Early Mature	B2	Good	A tall slender specimen. Relatively well developed.	No action necessary	20-30	250	12	2;2;2;2	2.25w
2348	Ash (*Fraxinus excelsior*)	Early Mature	B2	Good	Tall slender specimen. No visible defects.	No action necessary	30-40	170	12	3;2;3;3	3.25n
2349	Ash (*Fraxinus excelsior*)	Early Mature	B2	Good	Tall slender specimen. No visible defects	No action necessary	20-30	200	12	2;0;2;2	3s
2350	Norway maple (*Acer platanoides*)	Early Mature	U	Dead		Fell	0	250	12	1;1;1;1	NA
2351	Norway maple (*Acer platanoides*)	Early Mature	B2	Good	Well developed but crown restricted toward west due to competition from neighbouring trees	No action necessary	30-40	230	9	2;3;3;1	2n
2352	Ash (*Fraxinus excelsior*)	Young	B2	Good	Tall slender specimen. Crown restricted toward west due to competition between trees.	No action necessary	20-30	170	12	2;2;3;0.5	
2353	Ash (*Fraxinus excelsior*)	Young	B2	Good	Tall slender specimen. No visible defects	No action necessary	15-20	120	12	1;1;2;1	10n
2354	Ash (*Fraxinus excelsior*)	Young	U	Very Poor	Sub dominant with potential for failure	Fell	<10	100	12	0.5;0.5;0.5;0.5	11n
2355	Norway maple (*Acer platanoides*)	Early Mature	B2	Good	Trunk with a slight lean toward south. Canopy vertical.	No action necessary	30-40	260	11	2;3;4;3	3s
2356	Ash (*Fraxinus excelsior*)	Early Mature	B2	Good	Crown restricted toward north and east due to competition from neighbouring trees. No visible defects	No action necessary	30-40	260	12	3;3;5;5	2.5s

APPENDIX III: INDIVIDUAL TREE ASSESSMENT OF TREES ON WHITEHALL RD AND WELLINGTON RD

Tag Number	Species	Age class	Category	Vigour	Comments	Preliminary Recommendations	Long Term Potential	DBH (mm)	Height (meter)	Crown spread NESW (meter)	Clear Stem (meter)
2357	Ash (*Fraxinus excelsior*)	Early Mature	B2	Good	Tall slender. No visible defects	No action necessary	30-40	210	12	2;3;3;4	2.5w
2357	Ash (*Fraxinus excelsior*)	Early Mature	B2	Good	Well developed. No visible defects	No action necessary	30-40	210	12	3;3;2;5	3w
2358	Ash (*Fraxinus excelsior*)	Young	C2	Fair	Sub dominant forming under canopy.	No action necessary	42278	150	7	2;2;2;2	1.75e
2359	Ash (*Fraxinus excelsior*)	Early Mature	B2	Good	Tall slender relatively well developed. Light deadwood in lower crown.	No action necessary	30-40	190	12	2;3;2;2	4w
2360	Ash (*Fraxinus excelsior*)	Young	C2	Fair	Very slender due to competition from neighbouring trees.	No action necessary	10-15	120	12	1;2;1;1	9e
2361	Ash (*Fraxinus excelsior*)	Young	B2	Good	Tall slender specimen. No visible defects	No action necessary	20-30	150	12	2;2;2;2	5s
2362	Ash (*Fraxinus excelsior*)	Young	B2	Good	Tall slender specimen. No visible defects.	No action necessary	20-30	150	12	2;2;3;2	9e
2363	Ash (*Fraxinus excelsior*)	Young	B2	Good	Tall slender specimen. No visible defects	No action necessary	20-30	170	12	3;4;3;2	3e
2364	Norway maple (*Acer platanoides*)	Early Mature	B2	Good	Forming a decent specimen to edge of tree group. Crown restricted toward north due to competition from neighbouring trees. Bark damage at base to north.	No action necessary	30-40	340	8	1;4;5;4	2.15e
2366	Ash (*Fraxinus excelsior*)	Early Mature	B2	Fair	Tall slender specimen. Deadwood in lower crown.	Dead wood	20-30	170	11	1;2;3;1	2.5e

APPENDIX III: INDIVIDUAL TREE ASSESSMENT OF TREES ON WHITEHALL RD AND WELLINGTON RD

Tag Number	Species	Age class	Category	Vigour	Comments	Preliminary Recommendations	Long Term Potential	DBH (mm)	Height (meter)	Crown spread NESW (meter)	Clear Stem (meter)
2367	Norway maple (*Acer platanoides*)	Early Mature	B2	Good	Well developed. No visible defects	No action necessary	20-30	200	11	2;2;2;2	2.25s
2368	Ash (*Fraxinus excelsior*)	Early Mature	B2	Good	Crown restricted to north and west due to competition with neighbouring trees.	No action necessary	20-30	210	11	0;5;5;0	3s
2369	Ash (*Fraxinus excelsior*)	Early Mature	B2	Good	Crown restricted toward west du to competition from neighbouring trees.	No action necessary	20-30	280	12.5	4;5;4;2	1.5e
2370	Norway maple (*Acer platanoides*)	Young	B2	Good	Historic mower impact damage at base. Crown relatively well developed.	No action necessary	15-20	120	4	2;2;2;2	2.25
2372	Norway maple (*Acer platanoides*)	Young	B2	Fair	Historic mower impact damage at base of trunk. Canopy relatively well developed.	No action necessary	15-20	110	3.5	1;1.5;1;1	2.15e
2373	Norway maple (*Acer platanoides*)	Young	C2	Fair	Historic mower impact damage at base of trunk with associated decay. Canopy relatively well developed.	No action necessary	10	120	3.5	2;2;1.5;1.5	1.75w
2374	Norway maple (*Acer platanoides*)	Young	C2	Fair	Historic and recent mower impact damage to base of trunk with associated decay. Crown relatively well developed.	No action necessary	10	140	5	2;2;1;1.5	2.25e
2375	Norway maple (*Acer platanoides*)	Young	C2	Fair	Recent and historic mower impact damage at base of trunk with localised decay. Upper canopy relatively well developed.	No action necessary	10	110	4.5	2;1.5;1.5;1.5	1.75e
2376	Norway maple (*Acer platanoides*)	Young	C2	Fair	Mower impact damage at base of trunk with associated decay. Crown relatively well developed.	No action necessary	10	120	4.5	2;2;1.5;1.5	2n
2377	Norway maple (*Acer platanoides*)	Young	C2	Fair	Recent and historic bark damage at base of trunk with associated decay. Crown relatively well developed	No action necessary	10	120	5	2;2;2;1.5	2.25n

APPENDIX 1II: INDIVIDUAL TREE ASSESSMENT OF TREES ON WHITEHALL RD AND WELLINGTON RD

Tag Number	Species	Age class	Category	Vigour	Comments	Preliminary Recommendations	Long Term Potential	DBH (mm)	Height (meter)	Crown spread NESW (meter)	Clear Stem (meter)
2378	Norway maple (*Acer platanoides*)	Young	C2	Fair	Decay in base of trunk associated with mower impact damage. Crown relatively well developed.	No action necessary	10	140	5	2;2;2;1.5	2n
2379	Norway maple (*Acer platanoides*)	Young	C2	Fair	Extensive recent and historic mower impact damage to base of trunk with associated decay. Upper canopy relatively well developed.	No action necessary	10	110	4.5	2;1.5;1.5;1.5	2.15e
2380	Norway maple (*Acer platanoides*)	Young	C2	Very Poor	Extensive bark damage and related decay at base of trunk. Deadwood throughout canopy indicative of decline.	Dead wood	<10	140	4.5	1;1.5;2;1.5	2.15s
2381	Norway maple (*Acer platanoides*)	Young	C2	Fair	Extensive mower impact damage at base if trunk with associated decay. Upper canopy relatively well developed.	No action necessary	10	120	4.5	2;2;2;1.5	2.15s
2382	Norway maple (*Acer platanoides*)	Young	C2	Very Poor	Mower impact damage with associated decay at base of trunk. Deadwood throughout canopy indicative of decline.	Dead wood	<10	140	4.5	2;2;2;1.5	2.15s
2383	Norway maple (*Acer platanoides*)	Young	C2	Very Poor	Extensive deadwood in upper canopy indicative of decline	Dead wood	<10	140	5.5	2;2;2;1.5	1.75nw
2384	Norway maple (*Acer platanoides*)	Young	C2	Very Poor	Deadwood throughout crown indicative of decline. Recent and historic mower impact damage at base of trunk.	Dead wood	<10	140	4.5	2;2;2;1.5	2n
2385	Norway maple (*Acer platanoides*)	Young	C2	Very Poor	Deadwood throughout crown indicative of decline. Recent and historic mower impact. Damage at base of trunk. Surface roots lifting surrounding tarmac paving.	Dead wood	<10	160	5	2;2;2;1.5	1.75n
2386	Norway maple (*Acer platanoides*)	Young	C2	Fair	Historic bark impact damage with associated decay. Crown relatively well developed. Surface roots impacting on tarmac paving	No action necessary	10	170	6	2;3;2;2	1.75s

APPENDIX III: INDIVIDUAL TREE ASSESSMENT OF TREES ON WHITEHALL RD AND WELLINGTON RD

Tag Number	Species	Age class	Category	Vigour	Comments	Preliminary Recommendations	Long Term Potential	DBH (mm)	Height (meter)	Crown spread NESW (meter)	Clear Stem (meter)
2387	Norway maple (*Acer platanoides*)	Young	B2	Fair	Mower impact damage at base of trunk. Crown relatively well developed.	No action necessary	42278	160	5.5	2;2;2;2	1.75n
2388	Norway maple (*Acer platanoides*)	Young	C2	Poor	Deadwood throughout central crown indicative of decline. Mower impact damage at base.	Dead wood	<10	180	6	2;2;2;1.5	1.75w
2388	Norway maple (*Acer platanoides*)	Young	C2	Fair	Mower impact damage with associated decay. Canopy relatively well developed.	No action necessary	10	140	4.8	1.5;2;2;1.5	1.75w
2390	Norway maple (*Acer platanoides*)	Young	C2	Fair	Mower impact damage with associated decay present. Upper canopy relatively well developed.	No action necessary	10	130	4.5	2;2;2;1.5	1.75w
2391	Norway maple (*Acer platanoides*)	Young	C2	Fair	Recent and historic mower impact damage at base of trunk. Upper canopy slightly sparse.	No action necessary	10-15	170	6.5	2;2;2;2	2e
2392	Norway maple (*Acer platanoides*)	Young	C2	Fair	Recent and historic mower impact damage at base of trunk. Canopy relatively well developed	No action necessary	10-15	180	6.5	2;2;2;2	1.75n
2393	Norway maple (*Acer platanoides*)	Young	C2	Very Poor	Mower impact related decay in base of trunk. Upper canopy sparse indicating decline.	Dead wood	<10	140	5.5	1.5;1.5;1.5;1.5	1.75e
2394	Norway maple (*Acer platanoides*)	Young	C2	Poor	Mower impact related decay in base of trunk. Upper canopy sparse indicating decline.	No action necessary	10	180	6.5	2;2;2;2	2e
2395	Norway maple (*Acer platanoides*)	Young	C2	Fair	Extensive mower impact damage at base of trunk. Upper canopy relatively well developed.	No action necessary	10-15	160	5.5	2;2;2;2	2w
2396	Norway maple (*Acer platanoides*)	Young	C2	Fair	Recent and historic mower impact damage at base of trunk. Canopy relatively well developed.	No action necessary	10-15	160	6	2;2;2;2	2.15s

APPENDIX III: INDIVIDUAL TREE ASSESSMENT OF TREES ON WHITEHALL RD AND WELLINGTON RD

Tag Number	Species	Age class	Category	Vigour	Comments	Preliminary Recommendations	Long Term Potential	DBH (mm)	Height (meter)	Crown spread NESW (meter)	Clear Stem (meter)
2397	Norway maple (*Acer platanoides*)	Young	C2	Fair	Mower impact damage at base. Crown relatively well developed.	No action necessary	10-15	130	6	2;2;2;2	2.25e
2398	Fastigiate Hornbeam *Carpinus betulus 'Fastigiata'*	Early Mature	B2	Good	Well developed. No visible defects	No action necessary	40	190	5	2;2;2;2	0
2399	Norway maple (*Acer platanoides*)	Young	C2	Fair	Extensive mower impact damage to base of trunk. Upper canopy relatively well developed.	No action necessary	15-20	200	4.5	2;2;2;2	2n
2400	Norway maple (*Acer platanoides*)	Young	C2	Fair	Extensive mower damage at base of trunk. Upper canopy relatively well developed but deadwood present.	Dead wood	10	190	4.5	2;1.5;1.5;15	1
2401	Norway maple (*Acer platanoides*)	Young	C2	Fair	Mower impact damage at base of trunk. Deadwood in lower crown possibly indicative of decline	Dead wood	10-15	100	4.5	1;1;1;1	2.15s
2402	Norway maple (*Acer platanoides*)	Young	C2	Fair	Fresh and old mower impact damage at base. Deadwood in lower crown possibly indicative of decline	Dead wood	10-15	150	5	2;2;1;1.5	2s
2403	Norway maple (*Acer platanoides*)	Young	B2	Good	Minor old mower impact damage at base of trunk crown well developed.	No action necessary	20-30	170	5	2;2;2;2	1.75e
2404	Norway maple (*Acer platanoides*)	Young	B2	Fair	Old mower impact damage at base of trunk. Light deadwood in crown.	Dead wood	20-30	160	5	3;2;3;3	2e
2405	Norway maple (*Acer platanoides*)	Young	C2	Fair	Extensive areas of mower impact damage at base of trunk. Upper canopy well developed.	No action necessary	10-15	15	160	2;2;2;1	1.75e
2406	Norway maple (*Acer platanoides*)	Young	B2	Good	Crown well developed. Minor mower impact damage to base if trunk.	No action necessary	20-30	180	5	2;2;2;2	2w

APPENDIX III: INDIVIDUAL TREE ASSESSMENT OF TREES ON WHITEHALL RD AND WELLINGTON RD

Tag Number	Species	Age class	Category	Vigour	Comments	Preliminary Recommendations	Long Term Potential	DBH (mm)	Height (meter)	Crown spread NESW (meter)	Clear Stem (meter)
2407	Norway maple (*Acer platanoides*)	Young	B2	Good	Crown well developed. Old mower impact damage at base of trunk	No action necessary	15-20	170	5	2;2;2;2	2e
2408	Norway maple (*Acer platanoides*)	Young	B2	Good	Old mower impact damage at base of trunk. Upper canopy well developed. Signs of bulging to paving to west.	No action necessary	15-20	170	6.5	3;2;2;2	2e
2409	Norway maple (*Acer platanoides*)	Young	B2	Good	Old mower impact damage to base of trunk. Crown relatively well developed. Signs of bulging to paving to west.	No action necessary	15-20	160	5.5	3;2;2;2	1.75s
2410	Norway maple (*Acer platanoides*)	Young	B2	Good	Old mower impact damage at base of trunk. Upper canopy well developed. Signs of bulging to paving from roots to west.	No action necessary	20-30	160	4.5	2;2;2;2	2s
2411	Norway maple (*Acer platanoides*)	Young	B2	Fair	Crown somewhat sparse which could indicate decline. Old mower impact damage at base.	No action necessary	10-15	150	6.5	2;2;2;2	2.15w
2412	Norway maple (*Acer platanoides*)	Young	U	Very Poor	Extensive decay in trunk.	No action necessary	0	110	3	1;0.5;0.5;0.5	1.75w
2413	Norway maple (*Acer platanoides*)	Young	U	Very Poor	Extensive bark damage to trunk	Fell	0	80	4.5	0.5;0.5;0.5;0.5	2s
2414	Norway maple (*Acer platanoides*)	Young	U	Very Poor	Extensive bark damage at base. Crown poorly developed.	No action necessary	<10	80	3	1;1;1;0.5	1.75s

APPENDIX III: INDIVIDUAL TREE ASSESSMENT OF TREES ON WHITEHALL RD AND WELLINGTON RD

Tag Number	Species	Age class	Category	Vigour	Comments	Preliminary Recommendations	Long Term Potential	DBH (mm)	Height (meter)	Crown spread NESW (meter)	Clear Stem (meter)
2415	Norway maple (*Acer platanoides*)	Young	C2	Fair	Relatively well developed. Recent and historical impact damage to base of trunk. Surface roots impacting on path surface to west.	No action necessary	42278	100	4	1;1;1;1	2w
2416	Norway maple (*Acer platanoides*)	Young	B2	Good	Historic mower impact damage to base of trunk. Crown well developed.	No action necessary	15-20	120	4	1;1;1;1	1.75n
2417	Norway maple (*Acer platanoides*)	Young	B2	Good	Relatively well developed. Crown relatively well developed but deadwood in crown may be indicative of decline.	Dead wood	10-15	110	4	1;1;1;1	1.75w
2418	Norway maple (*Acer platanoides*)	Young	C2	Good	Extensive recent mower impact damage to base of trunk. Crown relatively well developed	No action necessary	10-15	150	5	2;2;2;2	1.75w
2419	Norway maple (*Acer platanoides*)	Young	B2	Fair	Historic mower impact damage a base. Crown relatively well developed.	No action necessary	15-20	110	4	2;2;2;2	1.75e
2420	Norway maple (*Acer platanoides*)	Young	C2	Fair	Historic mower impact damage at base of trunk. Crown well developed.	No action necessary	15-20	110	4	2;2;1;1	2.25w
2421	Norway maple (*Acer platanoides*)	Young	C2	Fair	Historic bark damage at base of trunk. Upper crown relatively well developed. Deadwood may indicate decline	Dead wood	15-20	90	4	1.5;1;1;1	1.75w
2422	Norway maple (*Acer platanoides*)	Young	B2	Good	Historic mower impact damage to base of trunk. Crown well developed.	No action necessary	20-30	140	4.5	2;2;2;2	2.15s
2423	Norway maple (*Acer platanoides*)	Young	C2	Fair	Historic mower impact damage to trunk. Deadwood in crown may indicate decline.	Dead wood	10	100	5	1;1;1;1	2e
2424	Norway maple (*Acer platanoides*)	Young	C2	Poor	Recent and historic mower impact damage at base of trunk. Crown sparse	No action necessary	10	120	4.5	2;1;1;1	1.75e

APPENDIX III: INDIVIDUAL TREE ASSESSMENT OF TREES ON WHITEHALL RD AND WELLINGTON RD

Tag Number	Species	Age class	Category	Vigour	Comments	Preliminary Recommendations	Long Term Potential	DBH (mm)	Height (meter)	Crown spread NESW (meter)	Clear Stem (meter)
2425	Norway maple (*Acer platanoides*)	Young	C2	Poor	Deadwood throughout upper crown indicative of decline.	Dead wood	<10	130	4	2;2;2;1.5	2.15e
2426	Norway maple (*Acer platanoides*)	Young	C2	Fair	Deadwood in crown may indicate decline. Historic mower impact damage at base of trunk.	Dead wood	10	90	3.5	2;1;1;1	1.75w
2427	Norway maple (*Acer platanoides*)	Young	B2	Good	Historic and recent mower impact damage at base if trunk. Crown relatively well developed	No action necessary	15-20	110	4	2;1;1;2	2e
2428	Norway maple (*Acer platanoides*)	Early mature	B2	Good	Congested lower crowns due to regrowth after pruning.	No action necessary	15-25	320	9	3;3;3;3	3w
2429	Norway maple (*Acer platanoides*)	Early mature	B2	Good	Congested lower crowns due to regrowth after pruning.	No action necessary	15-25	300	7	2;2;2;2	3w
2430	Norway maple (*Acer platanoides*)	Early mature	B2	Good	Congested lower crowns due to regrowth after pruning.	No action necessary	15-25	350	8	4;4;4;4	3w
2431	Norway maple (*Acer platanoides*)	Early mature	B2	Good	Congested lower crowns due to regrowth after pruning.	No action necessary	15-25	290	8	2;2;2;2	3w
2432	Norway maple (*Acer platanoides*)	Early mature	B2	Good	Congested lower crowns due to regrowth after pruning.	No action necessary	15-25	320	8	3;3;3;3	3w
2433	Norway maple (*Acer platanoides*)	Early mature	B2	Good	Congested lower crowns due to regrowth after pruning.	No action necessary	15-25	320	8	3;3;3;3	3w

*Refer to drawings TWEL002 109-118.

Appendix IV

Tree categories

A	Trees of high quality and value due to their size, age, condition, historical/visual merit and/or conservation potential (a minimum of 40 years).
A1	Mainly arboricultural values. Particularly good examples of species, essential components of groups or of formal or semi-formal arboricultural features.
A2	Mainly landscape values. Trees, groups or woodlands which provide a definite screening or softening effects to the locality in relation to views into or out of site, or those of particular visual importance.
A3	Mainly cultural values, including conservation. Trees, groups or woodlands of significant conservation, historical, comparative or other value (e.g. veteran trees or wood-pasture).
B	Trees of moderate quality and value (a minimum of 20 years).
B1	Mainly arboricultural values. Trees that might be included in high categories but are downgraded because of impaired condition (e.g. presence of remedial defects including unsympathetic past management and minor storm damage)
B2	Mainly landscape values. Trees present in numbers, usually as groups or woodlands, such that they form distinct landscape features, thereby attracting a higher collective rating than they might as individuals but which are not, individually, essential components of formal or semi-formal features (e.g. trees of moderate quality within an avenue that includes better A category specimens) or trees situated internally to the site, therefore individually having little visual impact on the wider locality.
B3	Mainly cultural values including conservation. Trees with clearly identifiable conservation or other cultural benefits.
C	Trees of low quality and value (a minimum of 10 years).
C1	Not qualifying in higher categories
C2	Trees present in groups or woodlands but without conferring on them greater landscape value and/or trees offering low or only temporary screening benefit.
C3	Trees with very limited conservation or other cultural benefits.
U	Trees in such 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 that are dead, dying or showing immediate and irreversible decline.

Terminology (cont.)

Comments: Refers to the tree's condition and suitability for the site.

Common name: Most widely used non botanical name.

Co-dominant: Two branches assuming the role of leading shoots. When growing close together may form a weak attachment (included bark) at their point of contact. Trees with this defect may be in danger of splitting at this weak attachment.

Crown Spread: Measured in metres north, east, south, and west.

Decay fungi: Refers to those species of fungi which degrade living wood and which may, depending on the degree of degradation, render the tree structurally unsound.

Defects: Refers to cracks, storm damage and any other damage mechanical or biological.

Diameter: Diameter of the trunk (millimetres) at 1.5m. M.S. after the measurement refers to the tree being multi-stemmed.

Genus & Species: Refers to the botanical names for the tree.

Height: Measured in metres.

Monitor: Refers to trees which need to be re-surveyed on a yearly basis to assess their condition. This timescale may be sooner where works or adverse weather conditions have impacted negatively on the trees.

Overhaul: A reference to standard tree surgery work which consists of the removal of deadwood, crossing branches and balancing where appropriate.

Recommendations: Indicates surgery work necessary for the retention or, where necessary, removal of the tree.

Tree No.: Refers to numbered tag fixed to tree during survey.

Appendix V Arboricultural Method Statement

This section gives general guidance on methods of work to minimise damage to trees. The local authority (or for privately owned trees, the owner or their agent), should be consulted at an early stage prior to the commencement of any works. This will reduce the potential for future conflict between trees and works.

V.I Below Ground

Wherever trees are present, precautions should be taken to minimise damage to their root systems. As the shape of the root system is unpredictable, there should be control and supervision of any works, particularly if this involves excavating through the surface 600mm, where the majority of roots develop.

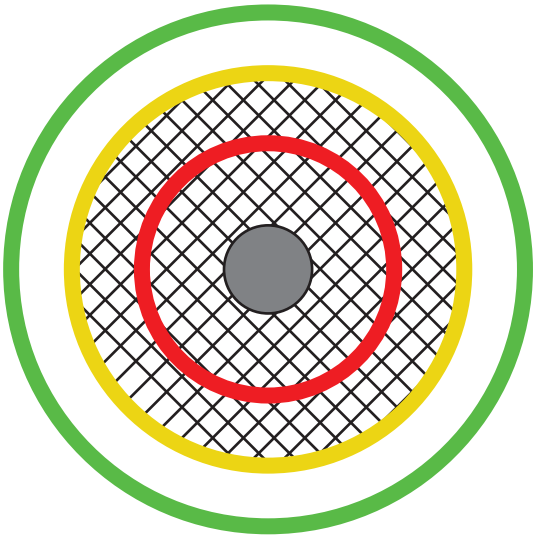
V.I.I Fine Roots

Fine roots are vulnerable to desiccation once they are exposed to the air. Larger roots have a bark layer which provides some protection against desiccation and temperature change. The greatest risk to these roots occurs when there are rapid fluctuations in air temperature around them e.g. frost and extremes of heat. It is therefore important to protect exposed roots where a trench is to be left open overnight where there is a risk of frost. In winter, before leaving the site at the end of the day, the exposed roots should be wrapped with dry sacking. This sacking must be removed before the trench is backfilled.

V.I.II Precautions

The precautions referred to in this section are applicable to any excavations or other works occurring within the Prohibited or Precautionary Zones as illustrated in Figure 1 – 'Tree Protection Zone'.

FIGURE 1 – Tree Protection Zone



Key

Trunk of tree

Canopy or branch spread

PROHIBITED ZONE – 1m from trunk. Excavations of any kind must be avoided within this zone. Materials, plant and spoil must not be stored within this zone.

PRECAUTIONARY ZONE – 4 x tree circumference. Where excavations must be undertaken within this zone the use of mechanical excavation plant should be prohibited. Precautions should be undertaken to protect any exposed roots. Materials, plant and spoil should not be stored within this zone.

PERMITTED ZONE – outside of the precautionary zone. Excavation works may be undertaken within this zone, however caution must be applied and the use of mechanical plant limited. Any exposed roots should be protected.

V.I.III Realignment

Whenever possible works should always be diverted or re-aligned outside the Prohibited or Precautionary Zones. Under no circumstances can machinery be used to excavate open trenches within the Prohibited Zone.

The appropriate method of working within the Precautionary Zone should be determined in consultation with the local authority (or for privately owned trees the owner or their agent) and may depend on the following circumstances;

5.1.3.1 the scope of the works (e.g. one-off repair or part of an extensive operation)

5.1.3.2 degree of urgency (e.g. for restoration of supplies)

5.1.3.3 knowledge of location of other apparatus

5.1.3.4 soil conditions

5.1.3.5 age, condition, quality and life expectancy of the tree

Where works are required for the laying or maintenance of any apparatus within the Prohibited or Precautionary Zones there are various techniques available to minimise damage.

Acceptable techniques in order of preference are;

a) Trenchless

Wherever possible trenchless techniques should be used. The launch and reception pits should be located outside the Prohibited or Precautionary Zones.

In order to avoid damage to roots by percussive boring techniques it is recommended that the depth of run should be below 600mm. Techniques involving external lubrication of the equipment with materials other than water (e.g. oil, bentonite, etc.) must not be used when working within the Prohibited Zone. Lubricating materials other than water may be used within the Precautionary Zone following consultation and by agreement.

b) Broken Trench - Hand-dug

This technique combines hand dug trench sections with trenchless techniques if excavation is unavoidable. Excavation should be limited to where there is clear access around and below the roots. The trench is excavated by hand with precautions taken as for continuous trenching as in (c) below. Open sections of the trench should only be long enough to allow access for linking to the next section. The length of sections will be determined by local conditions, especially soil texture and cohesiveness, as well as the practical needs for access. In all cases the open sections should be kept as short as possible and outside of the Prohibited Zone.

c) Continuous Trench - Hand-dug

The use of this method must be considered only as a last resort if works are to be undertaken by agreement within the Prohibited Zone. The objective being to retain as many undamaged roots as possible.

Hand digging within the Prohibited or Precautionary zones must be undertaken with great care requiring closer supervision than normal operations.

After careful removal of the hard surface material digging must proceed with hand tools. Clumps of roots less than 25mm in diameter (including fibrous roots) should be retained in situ without damage. Throughout the excavation works great care should be taken to protect the bark around the roots.

All roots greater than 25mm diameter should be preserved and worked around. These roots must not be severed without first consulting the owner of the tree or the consulting arboriculturist. If after consultation severance is unavoidable, roots must be cut back using a sharp tool to leave the smallest wound.

V.I.IV Backfilling

5.1.4.1 Backfilling should be carefully carried out to avoid direct damage to roots and excessive compaction of the soil around them. The backfill should, where possible, include the placement of an inert granular material mixed with top soil or sharp sand (not builder's sand) around the roots. This should allow the soil to be compacted for resurfacing without damage to the roots securing a local aerated zone enabling the root to survive in the longer term.

5.1.4.2 Backfilling outside the constructed highway limits should be carried out using the excavated soil. This should not be compacted but lightly "tamped" and usually left slightly proud of the surrounding surface to allow natural settlement. Other materials should not be incorporated into the backfill.

V.I.V Additional Precautions near Trees

6.1.5.1 Movement of heavy mechanical plant (excavators etc.) must not be undertaken within the Prohibited Zone and should be avoided within the Precautionary Zone, except on existing hard surfaces, in order to prevent unnecessary compaction of the soil. This is particularly important on soils with a high proportion of clay. Spoil or material must not be stored within the Prohibited Zone and should be avoided within the Precautionary Zone.

5.1.5.2 Where it is absolutely necessary to use mechanical plant within the Precautionary Zone care should be taken to avoid impact damage to the trunk and branches. A tree must not be used as an end-stop for paving slabs or other materials nor for security chaining of mechanical plant. If the trunk or branches of a tree are damaged in any way advice should be sought from the supervising arboriculturist.

See table 1 –'Prevention of Damage to Trees Below Ground' below for summary details regarding causes and types of damage to trees and the implications of the damage and the necessary precautions to be taken to avoid damage.

TABLE 1 - Prevention of Damage to Trees Below Ground

Causes of Damage	Type of Damage	Implications to Tree	Precautions
Trenching, mechanical digging etc.	Root severance	• The tree may fall over • Death of the root beyond the point of damage • Potential risk of infection of the tree The larger the root the greater the impact on the tree.	Hand excavate only within the Precautionary Zone. Work carefully around roots. Do not cut roots over 25mm in diameter without referring to the consulting arborist. For roots less than 25mm in diameter use a sharp tool and make a clean cut leaving as small a wound as possible.

Causes of Damage	Type of Damage	Implications to Tree	Precautions
Trenching, mechanical digging, top soilsurface removaletc.	Root bark damage	• The tree may fall over • If the damage circles the root it will cause the death of the root beyond that point • Potential risk of infection of the tree The larger the root the greater the impact on the tree.	Do not use mechanical machinery to strip the top soil within the Precautionary Zone. Hand excavate only within the Precautionary Zone. Work carefully around roots. Do not cut roots over 25mm in diameter without referring to the consulting arborist. For roots less than 25mm use a sharp tool and make a clean cut leaving as small a wound as possible.
Vehicle movement and plant use. Material storage within the precautionary area.	Soil compaction & water saturation	Restricts or prevents passage of gaseous diffusion through soil, the roots are asphyxiated and killed affecting the whole tree.	Prevent all vehicle movement, plant use or material storage within the Precautionary Zone. Use tree root protection mats where this is not possible (refer to 5.1.6).
Top-soil scouring, excavation or banking up.	Alterations in soil level causing compaction or exposure of roots.	Lowering levels strips out the mass of roots over a wide area. Raising soil levels asphyxiates roots and has the same effect as soil compaction.	Avoid altering or disturbing soil levels within the Precautionary Zone.
Use of herbicides.	Poisoning of the tree via root absorption	• Death of the whole tree • Death of individual branches Damage to leaves and shoots.	The selection and application of herbicides must be undertaken by a competent person in accordance with COSHH regulations.
Spillage of oils or other materials.	Contamination of soil	Toxic and asphyxiation effects of chemicals, oils, building materials (cement, plaster, additives etc.) on the root system can kill the tree.	Never store oils, chemicals or building materials within the Precautionary Zone or within the branch spread of a tree, which ever is the greater.
Placement or replacement of underground apparatus.	Various	Death of all or part of the tree.	Effective planning and liaison with the consulting arborist, taking into consideration the position of trees, and their future growth potential and management.

5.1.6 Tree root protection mats

Protective matting such as Rola-Trac^{tm} (image 6) should be placed over the initial work zone areas near tree root systems to mitigate any adverse effects from the presence of machinery and associated construction activity by works personnel. These also have the benefit of protecting the soil from any potential works contaminants due to works.

Image 38 Rola-Trac^{tm} protective matting.

V.II Above Ground

V.II.I Damage by Pruning

Trees (including shrubs and hedges) can be damaged by inappropriate or excessive pruning. The aim of pruning should be to achieve vegetation clearances in ways which minimise the aesthetic and physical impact on retained trees and shrubs.

Reasonable care should be taken to avoid unnecessary damage to flora and fauna and to access ways.

Work should comply with BS3998. Pruning is a skilled job which should be undertaken by appropriately trained and experienced staff.

Given constraints often imposed by others it is not always possible to prune in an aesthetically pleasing way. However an effective Utility Arborist adjusts the work carried out for each plant to achieve the best possible standard, given the prevailing constraints.

- Ideally vegetation is left well balanced with natural crown shapes
- Pruning must also take into account the vegetation re-growth expected in the interval between cuts. This will vary widely between plant species and sites.
- Vegetation management: tree selection for retention and replanting at an early stage can be used to prevent the need for much more intrusive and damaging work in the future when the vegetation grows closer to the overhead line. Good practice often involves interventions over a number of cutting cycles to manage trees and shrubs so that future conflict with local infrastructure is minimised.

Where reasonably possible avoid recognised injurious practices such as:

- o Topping or lopping to an arbitrary height or branch length
- o Unbalancing a tree crown by excessive one-sided pruning
- o Pollarding. Unless pollarding is the existing recognised management technique.
- o Inappropriate use of flailing.
- o Climbing damage - Care should be taken to avoid injuring thin and weak barked species by inappropriate use of rope access techniques.
- o Access damage - Vehicle access and treatment of arisings should avoid injury to low branches, stems, root buttresses and feeder roots.
- o Spreading Disease - Appropriate regard should be given to avoid spreading fungal diseases.

- If the only pruning option is to severely reduce or unbalance a tree, then coppicing, or felling and replacement planting are often better options.

See table 2 – 'Prevention of Damage to Trees Above Ground' below for summary details regarding causes and types of damage to trees and the implications of the damage and the necessary precautions to be taken to avoid damage.

TABLE 2 - Prevention of Damage to Trees Above Ground

Causes of Damage	Type of Damage	Implications for the Tree	Precautions
Impact by vehicle or plant Physical attachment of signs or hoardings to the trunk Storage of materials at base of tree Rubbing by winch or pulling cables	Bark bruising, bark removal, damage to the wood, damage to buttress roots, abrasion to trunk	Wounding with the potential for infection ultimately resulting in death of all or part of the tree. Structural failure of the tree	Surround the trunk with protective free-standing barrier. Exclude vehicles, plant or material storage from the Precautionary Zone. Ensure sufficient clearance of cables or ropes.
Impact by vehicle or plant Rubbing by overhead cables	Bark damage to branches, breakage and splitting of branches, abrasion to branches	Structural failure of the branch. Wounding or loss of a branch with the potential for infection ultimately resulting in death of all or part of the branch or tree.	Exclude vehicles, plant or material storage from the Precautionary Zone. Ensure sufficient clearance of cables or ropes. All pruning should be carried out in accordance with BS3998 (prune affected branches to give appropriate clearance from cables)
Inappropriate sitingof overhead apparatus, such as CCTV, lighting fixtures and communications masts and dishes.	Inappropriate pruning, unnecessary tree removal	Severely pruning tree to acquire line of sight signal for communications dish etc.	Effective planning and liaison with arboriculturist, taking into consideration the position of trees,and their future growth potential and management.
Lack of forethought in design and location of apparatus and services entries on new developments	Complete tree removal	The tree is removed unnecessarily	Agree the location and installation of services at the design stage. Consideration should be given to the creation of dedicated service routes wherever possible.
Use of herbicides	Poisoning of the tree via absorption throughbark, leaves and shoots	Death of the whole tree, death of individual branches, damage to leaves andshoots	The selection and application of herbicides must be undertaken by a competent person in accordancewith COSHH regulations.

V.II.I Chemical Damage to Trees

Chemical damage to trees adjacent to utility premises and operational land can be avoided if;

- the risk is identified when planning any work involving herbicides or other chemicals ensuring that only appropriate chemicals are used. Particular care should be exercised when considering the use of herbicides recommended for "non crop areas" as many of these also specify "do not use where there may be roots of desirable plants",
- herbicides are applied only at the rate and in the manner recommended by the manufacturer,
- follow-up applications are not undertaken until weeds reappear on the operational land,
- alternative methods of weed control are considered.

Appendix VI: Limitations of Survey

This survey should be regarded as a preliminary assessment of the trees and deals with the current condition as identified during this survey only.

Every attempt was made to identify hazardous trees in this report however this survey was carried out from the ground and therefore cannot be held to have identified elements of decay which may be hidden out of sight within the crown or beneath ivy or other obstructions. To counter this limitation in the survey process it is vital that during tree works any additional defects found by the climbing arborist are communicated to the consulting arborist to allow appropriate action to be taken.

The details within this survey are based on the condition of the trees during the survey period only. The findings in this survey cannot be held to be valid after any site disturbance, man-made or natural, which may have an adverse effect on any trees present.

Appendix VII: Relevant legislation

There are no Tree Protection Orders (TPOs) on any of the trees on this site. However unless planning permission which clearly identifies trees for removal has been granted then under Section 7 of the Forestry Act 2014 a person wishing to fell trees must apply to the minister for a licence to do so.

Exempted trees: Section 19 states that the requirement for a felling licence for the uprooting or cutting down of trees does not apply where:

- The tree in question is standing in an urban area
- The tree is considered dangerous and hazardous.
- The tree is within 10m of a public road and regarded as hazardous
- The tree in question is less than 100ft./30m from a dwelling other than a wall or temporary structure;
- The tree in question is a hazel, apple, plum, damson, pear, or cherry tree grown for the value of its fruit or any ozier;

Other exceptions apply in the case of local authority road construction, road safety and electricity supply operations.

The Act is administered by the Forest Service (Department of Agriculture, Fisheries and Food). The Felling Section of the Forest Service is based in Johnstown Castle, Co. Wexford (053-9160200 or 1890-200223).

If any queries arise re tree felling in general it is recommended that advice is sought from Felling Section of the Forest Service or the local forestry development officer for further information.

No Special Areas of Conservation (SACs) are in effect on the surveyed site or surrounding area.

Bats

Trees may contain bats. Bats are afforded legal protection under Irish and EU legislation and agreements (Wildlife Act (1976), Wildlife (Amendment) Act (2000), S.I. No. 94 of 1997 and S.I. No. 378 OF 2005 implementing the EU Habitats Directive, Bonn Convention (The Convention on the Conservation of Migratory Species of Wild Animal) and the Bern Convention (Convention on the Conservation of European Wildlife and Natural Habitats).

Trees provide roosting opportunities for bats. Mature trees are the most likely to have potential as roost sites. This may be provided by cavities, crevices, limb fractures, storm damage or mechanical damage and may even be by way of loose bark. Felling of mature trees and even surgery to large limbs may place bats at risk and both procedures remove roosting sites for bats.

Professional advice from a licenced surveyor should be sought prior to any works commencing on trees.

Appendix VIII:

BS 5837 (2012). Trees in Relation to Design Demolition and Construction

BS3998 (2010) Recommendations for Tree Work

Mattheck and Breloer (1994). The body language of trees

Living with Trees (2015): South Dublin County Council's Tree Management Policy 2015-2020

NJUG (2007) Guidelines for the planning, installation and maintenance of utility apparatus in proximity to trees.

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