Arborist Associates Ltd.

An Arboricultural Assessment of the Tree and Hedge Vegetation on 'SHD Lands' at Ratoath South, Co. Meath.

Prepared for: Beo Properties Ltd.

Prepared by: Felim Sheridan F. Arbor. A, RFS Dip, Nat. Dip & NCH in Arboriculture

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94 Ballybawn Cottages, Enniskerry, Co. Wicklow.

Tel: 2742011 Mobile: 087 2629589 Email arborist@eircom.net

1.0 Instructions

- 1.1 I have been instructed by Beo Properties Ltd (planning applicants) to assess the impact of the proposed development which consists of a residential development area to the north-west on the SHD Lands at 'Ratoath South', Co. Meath and to report on the following:
 - A To assess the present condition of the tree and hedge vegetation within and adjoining the site area. See 'Appendix 2' for detail of my findings and drawing No.RORR001 which I have prepared as a Tree Constraints Drawing to aid the design team.
 - **B** To assess the impact of the proposed development layout on the tree and hedge vegetation located within the site area indicating those for removal and retention. See 'Section 5.0' and 'Drawing No.RORR002 for detail.
 - C To develop this drawing as a tree protection plan to show the position of the protective fencing that needs to be erected and other tree protection measures that will need to be put in place around the tree and hedge vegetation to be retained at the very start of the works and be maintained until all construction works are complete. See 'Section 6.0' and 'Drawing No.RORR002 for detail.

2.0 Report Limitations

- 2.1 The inspection of the tree vegetation has been carried out from ground level only, is a preliminary report and does not include climbing inspections, internal investigations of the timber or below ground investigations. The assessment is based on what was visible at the time of the inspection and recommendations made are subject to the knowledge and expertise of the qualified Arboriculturist that carried out the above inspections.
- 2.2 This report only relates to factors apparent at the time of the inspection; as a result, further monitoring is imperative if potential problems/hazards are to be avoided. Recommendations made are intended to minimize or to help reduce potential hazards that may be associated with trees, but it is not possible to remove all such risks especially in the event of heavy winds or storms and as such, there is no guarantee or certainty that all hazardous conditions will be detected. The recommendations within this report are valid for a 12 month period only, unless otherwise stated within the recommendations of the attached report.
- 2.3 Before undertaking any work to this vegetation, it would be advisable to check whether any planning or tree preservation controls are in operation, if they are it will be necessary to obtain consent before undertaking any works (pruning or felling). The 'Forestry and Wild Life Acts' should also be taken into consideration when planning to carry out any tree works.

3.0 Survey Data Collection and Methodology

3.1 The assessment starts with the tree and hedge vegetation in the north-west corner and works in a clockwise direction around the site area. The trees within the site area were tagged with the tag reference numbers 1447-1500 & 1901-1933 inclusively and three trees and twenty hedges were numbered numerically. The tag numbers are attached to the trees at a height of 1.5- 2m from ground level and are orientated in such a way to assist in their relocation.

- 3.2 The inspection of the trees involves a visual assessment from ground level only and does not include any invasive means of assessing the trees internally, their below ground parts or the aerial parts that are not visible from the ground. Good, fair and poor have been used to summarise the physiological and structural conditions of these trees with the comments giving more detail. Other items that may limit the assessment of a tree included lvy cover, scrub vegetation and/or basal suckers.
- 3.3 Their retention category has been assessed and categorized according to their quality and value within the existing context (BS-4.5), and not in conjunction with any proposed development plans. In making this assessment, particular consideration was given to;

Arboricultural Value – An assessment of the trees health, structural form, life expectancy, species and its physical contribution to or effects on other features located on site.

Landscape Value – An assessment of a trees locality including its contributions to other features as well as to the site as a whole.

Cultural Value – Additional contributions made such as conservation, historical or commemorative value.

3.4 The tree vegetation has have been divided into one of the following categories, in accordance with the cascade chart illustrated in table 1 of BS 5837:2012. The classification process begins by determining whether the tree falls within the (U) category, if not then the process will continue by assuming that all trees are considered according to the criteria for inclusion in the high category (A). Trees that do not meet these strict criteria will then be considered in light of the criteria for inclusion in the moderate category (B) and failing this, they will be allocated a low category (C).

The following summarizes each of the categories:

Category U – Those trees in such a condition that any existing value would be lost within 10 years. These would be seen as trees that have little or no potential either due to their physiological and/or structural condition and their removal would be seen necessary either now or in the shortterm as the most appropriate management option.

The category 'U' trees within the site area have been identified on our drawings (Nos.RORR001 & RORR002) with a 'Red' donut around their trunk positions.

Category A - Trees of high quality/value with a minimum of 40 years life expectancy. These would be seen as trees that have the potential to contribute to the tree cover of these grounds for the long-term and consists of trees of all age classes from semi-mature to mature.

From our assessment of the tree vegetation within this site area, no trees were categorized as 'A'.

Category B – Trees of moderate quality/value with a minimum of 20 years life expectancy. These would be seen as trees that have the potential to contribute to the tree cover of these grounds for the medium term and consists of trees of all age classes from semi-mature to mature.

The category 'B' trees within the site area have been identified on our drawings (Nos.RORR001 & RORR002) with a 'Blue' donut around their trunk positions.

Category C – Trees of low quality/value with a minimum of 10 years life expectancy

These trees would be seen as having the potential to provide tree cover for the short to medium term. As part of the future management, some of these may be removed for one reason or another. This category consists of trees of all age classes from young to mature. These trees should not been seen as a considerable constraint on the development of this site area, but should be considered for retention where viable.

The category 'C' trees within this site area have been identified on our drawings (Nos.RORR001 & RORR002) with a 'Grey' donut around their trunk positions.

3.5 The trees have been plotted onto the attached drawing (DWG No.RORR001) by a land survey company and their positions are assumed accurate. This drawing has been developed as a constraints drawing to aid the design team in the layout of the proposed development and the tag numbers referred to in the condition tree report have been shown on this drawing along with their crown spreads and their retention category colour coded as recommended by BS 5837 2012. The constraint (Minimum Root Protection Area) for each tree has been shown on the drawing with an 'Orange Circle' and all proposed development should be planned to be positioned outside those trees proposed for retention allowing for additional space for construction activities.

The Root Protection Area (RPA) is the minimum area around individual trees to be protected from disturbance during construction works; RPA is usually expressed as a radius in metres measured from the tree stem. Any deviation in the RPA from the original circular plot takes account of the following factors whilst still providing adequate protection for the root system:

a) The morphology and disposition of the roots, when influenced by past or existing site conditions (e.g. the presence of roads, structures, drainage ditches and underground apparatus);

- b) Topography and drainage;
- c) The soil type and structure;

d) The likely tolerance of the tree to root disturbance or damage, based on factors such as species, age, condition and past management.

4.0 Summary of Survey Findings

- 4.1 The site area included within this SHD land parcel are currently in agricultural use and are mostly in grass for grazing live stock. This parcel of land is divided up into a number of fields of varying sizes by typical type hedgerows for this area. The bulk of the hedgerows are growing on the sides of drainage ditches that drain these lands.
- 4.2 The hedges are predominately made up of Hawthorn with other species such as Elder and Privet present in smaller qualities with the undergrowth being dominated by Bramble and Dogrose and these in particular the Bramble is encroaching out of many of the hedgerows due to lapsed management to create broader hedges and scrub areas on either side.

Ash is the main tree species protruding up over the hedge heights along with some Sycamore, Crab Apple and Poplar and these are dispersed along the hedges either as individuals are in short groups/lines. These trees range in age from seedlings to those of a mature age class. Many of the trees have established themselves from old coppiced stools having been cut down previously as part of the past hedge cutting works and have now been allowed to establish as multiple-stemmed trees, either from base or near ground level. Ivy is also prevalent within the hedgerows and is growing up through the hedge plants and the trees, and in some places is causing suppression of the hedge plants and trees and may leave some of them more vulnerable to wind/storm damage.

The bulk of the Ash is showing evidence of infection by Ash Dieback *(Hymenoscyphus Fraxineus)* and this is likely to impact on their long-term potential and although some trees within their lines/group canopy structures are of some prominence with the landscape, infection or the potential for infection by 'Ash Dieback' is having an impact on their category grading due to the uncertainty associated with the disease and how it will impact on the Ash tree population in the future years. As a result, the Ash trees have been given a category grade of 'C'.

4.3 Within the overall site area, 87No.trees were tagged individually, with 7No.trees, six tree lines and 21No.hedges have been numbered numerically.

The following table gives a breakdown of the category grading allocation as per the cascade chart in BS5837 2012:

Category Grade	No. of trees
Category U	Tree Nos. 1473, 1476, 1493, 1910, 1918, 1919 & 1924
7 Trees	
Category A	Tree Nos. N/A
0 Trees	
Category B	Tree No. 1904
1 Tree	
Category C	Tree Nos. 1447, 1448, 1449, 1450, 1451, 1452, 1453,
86 Trees	1454, 1455, 1456, 1457, 1458, 1459, 1460, 1461,
	1462, 1463, 1464, 1465, 1465, 1467, 1468, 1469,
+ 6 Tree Lines	1470, 1471, 1472, 1474, 1475, 1477, 1478, 1479,
+ 21 Hedges	1480, 1481, 1482, 1483, 1484, 1485, 1486, 1487,
	1488, 1489, 1490, 1491, 1492, 1494, 1495, 1496,
	1497, 1498, 1499, 1500, 1901, 1902, 1903, 1905,
	1906, 1907,1908, 1909, 1911, 1912, 1913, 1914, 1915,
	1916, 1917, 1920, 1921, 1922, 1923, 1925, 1926,
	1927, 1928, 1929, 1930, 1931, 1932 & 1933
	Tree Nos. 1, 2, 3, 4, 5, 6 & 7
	Tree Line Nos. 1, 2, 3, 4, 5, 6
	Hedge Nos. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14,
	15, 16, 17, 18, 19, 20 & 21
Total	94 Trees + 6 Tree Lines + 21 Hedges

5.0.0 Arboricultural Implication Study

5.1.0 Introduction

- 5.1.1 The site area is located on lands to the north-west of the overall SHD lands and it is to be developed for a residential development. Within the sites red line boundary, there are 21No.hedgerows, either forming the boundary between fields within the site area or the boundaries with the adjoining lands/properties.
- 5.1.2 This section of the document is designed to assess the impact of the proposed development layout on the tree and hedge vegetation on these lands and to look at the necessary measures that will need to be undertaken to help retain the tree and hedge vegetation shown for retention free from adverse impacts for the duration of the construction period.
- 5.1.3 On drawing (No.RORR002), I have identified the tree and hedge vegetation to be removed to facilitate this proposed development with a 'Red' crown spread and those to be retained with a 'Green Hatched' crown spread.
- 5.1.4 On this drawing, I have also shown the necessary tree protective fencing and work exclusion zones with 'Orange Hatching'. This will need to be erected at the start of the works and be maintained in place until all works are completed.
- 5.1.5 The comments made within this impact assessment study are based on my understanding of the proposed works and what is required to allow for its construction.

5.2.0 Tree and Hedge Loss

- 5.2.1 See 'Appendix 2' of this report and drawing No.RORR002 which provides more details on the tree and hedge vegetation.
- 5.2.2 Based on the current layout of the proposed residential development at the northwestern end of the SHD lands and its infrastructure requirements, it will be necessary to remove the following tree and hedge vegetation

1,417 linear meters of hedging made up predominantly of Hawthorn with some Elder and Privet with an undergrowth of Bramble and Dogrose. Within these sections of hedges to be removed, there are 65No.surveyed trees and c.61m of tree lines made up of 6 category 'U', 1 category 'B' and 58 category 'C' entries.

The trees for removal are predominately of Ash and these range in age from semimature to those of a mature age class and they range from individual trees to short groups/ lines and they consist of single-stemmed trees to those that are multiplestemmed having most likely developed this form as a result of previous cutting into the hedgerows during their past management.

The following table gives a breakdown of the tree and hedge vegetation that will need to be removed to facilitate the proposed development and its infrastructure:

Ref No.	Category Grade	Section of Hedge to be Removed - Meters (m)	Tree Nos.
Hedge No.1	C		
Hedge No.2	C		
Hedge No.3	С		1456
Hedge No.4	С		
Hedge No.5	С		
Hedge No.6	С		
Hedge No.7	С	c.71m	
Hedge No.8	U		1473 & 1476
	С	c.265m	1463, 1464, 1465, Tree No.1, Tree No.2, 1466, 1467, 1468, 1469, 1470, 1471, 1472, 1474, 1475, 1477,
Hedge No.9	С	c.36m	1479, 1480 & 1481
Hedge No.10	С	c.78m	None
Hedge No.11	С	c.140m	None
Hedge No.12	С		
Hedge No.13	U		1493
	С	c.189m	1484, 1485, 1486, 1487, 1488, 1489 & 1494 Tree Line 4 & c.18m Tree Line No.5

Hedge No.14	С		
Hedge No.15	С	c.75m	Tree No.3
Hedge No.16	Hedge No.16 C		1495, 1496, 1497, 1498,
			1499 & 1500
Hedge No.17	В		1904
	С	c.76m	1901, 1902, 1903, 1905,
			1906, 1907, 1908 & 1909
Hedge No.18	С	c.106m	
Hedge No.19	U		1918 & 1919
	С	c.75m	1910, 1911, 1912, 1913,
			1914, 1915, 1916, 1917 &
			1920
Hedge No.20	U		1924
	С	c.146m	1922 & 1923
Hedge No.21	С	c.84m	1928, 1929, 1930, 1931,
_			1932 & 1933.

5.2.3 The loss of the above tree and hedge vegetation from these lands is to be mitigated against with the planting of new trees, shrubs and hedge planting within the completed landscaped residential development within the private gardens and on the public open spaces. A range of tree sizes is being proposed from whips to form hedges and linear woodland strips to semi- mature trees. See project landscape architects plans and schedules for full details.

This planting as part of the landscaping will complement the development and its incorporation into the surrounding area. It will also help to provide good quality and sustainable long-term tree cover and as it establishes and grows in size, it will be continuously mitigating any negative impacts created with the loss of the existing tree vegetation to facilitate the proposed development. See landscape architects drawings and schedules for detail.

The design of the landscape areas within the completed development contains a strong tree and hedge planting as mitigation for the existing tree and hedge vegetation loss particularly along the boundaries. A mix of tree species, forms and sizes including the use of semi- mature trees will form a strong and unifying element to the landscape areas.

The planting strategy key factors are to:

• Create a sense of identity using tree and shrub vegetation.

• Create a robust landscape that performs all year round and is suitable for the current proposed use of these lands

- Use vegetation to screen and enhance views
- Use a more diverse mix of plant species that are good pollinators
- Plant robust species that tolerate drought and site-specific micro-climates
- Plant species that are maintenance friendly

5.3.0 Tree and Hedge Retention and Protection

- 5.3.1 The remaining tree and hedge vegetation is proposed for retention and incorporation into the completed development.
- 5.3.2 The following are the main items for consideration during the proposed construction process:

ltem	Comments
Tree Pruning	As part of the initiating works, the crowns of some of the trees are to be pruned to remove dead/unstable growth, as well as the pruning of individual limbs/branches or entire crowns to reduce size due to structural weaknesses or to improve their juxtaposition within the built environment. A preliminary list of these works is given within the condition tree assessment in 'Appendix 2' of this report and these are to be reviewed on site prior to being carried out.
	The hedges being retained in most instances will require trimming to bring them back into active management and to incorporate them into the completed landscaped development. This will involve trimming in of their sides, particularly excessive spread of vegetation especially Bramble and the poorer structured sections will need trimming/pruning to address stability issues. The objective of the trimming of the hedges is to help rejuvenate them with the encouragement of lower growth development and once trimmed back; there will be an opportunity to augment poor quality sections with new hedge planting to create better structured sustainable hedges for the future suitable for their new built urban environment.
	All tree felling and pruning work should be carried out by qualified and experienced tree surgeons <i>before</i> any construction work commences; all tree work should be in accordance with <i>BS3998</i> (2010) Tree Work – Recommendations.
	For the stumps of trees that need to be removed, particularly those which are located within the root zone of trees being retained, these are to be ground out using a mechanical stump grinder taking care not to cause root damage to the trees being retained.
Tree Management	Within the proposed development, as is the current situation, trees will be positioned within close proximity to buildings and usable surfaces such as roads and neighbouring properties. As a result, it will be necessary to continue to review the condition of these trees on a regular basis and to carry out any necessary remedial tree surgery works required to promote health and safety. This will involve the ongoing monitoring of the Ash trees retained for infection and decline as a result of Ash Dieback and the necessary management will need to be undertaken to address safety.
	Any new tree planting carried out will require maintenance to encourage good growth habits and to alleviate any safety concerns that they may present as they grow in size.
Tree Protection	The tree and hedge vegetation being retained will need to be protected from unnecessary damage during the construction process by effective construction-proof barriers that will define the limits for machinery drivers and other construction staff. Ground protected by the fencing will be known as the 'Work Exclusion Zone' and sturdy protective fencing will need to be erected along the points identified in the Tree Protection Plan

ltem	Comments
	(DWG No. RORR002) prior to any soil disturbance and excavation work starting on site. This is essential to prevent any root or branch damage to the retained trees. The British Standard BS5837: <i>Trees in relation to design, demolition and construction</i> (2012) specifies appropriate fencing, see appendix 1 for details. All weather notices should be erected on the fences with words such as: "Tree Protection Fence — Keep Out".
	When the fencing has been erected, the construction work can commence. The fencing should be inspected on a regular basis during the duration of the construction process and shall remain in place until heavy building and landscaping work have finished and its removal is authorised by the project Arboriculturist.
Construction	It will be important that good housekeeping is in place at all times so that the site does not become congested.
	All construction works will need to be well planned in advance so as not to put pressure on the protective zone around the trees. All works are to occur from outside the protective zones.
	Where work space between the building lines and the protective fence lines is limited/ restricted, alternative work methods will need to be looked at so as to keep the work areas to their minimum in order to reduce the extent of soil and root damage occurring to the trees proposed for retention. See section 6.2.3 of BS5837 2012 for detail on working within the RPA and ground protection. For light access works within the work exclusion zone, the installation of suitable ground protection in the form of scaffold boards, woodchip mulch or specialist ground protection mats/plates may be acceptable. These are to be reviewed with the project Arboriculturist and installed to their recommendations. See detail in 'Appendix 1' of this report for sample of ground protection for light weight construction works.
	Care should be taken when planning site operations to ensure that wide or tall loads or plant machinery with booms, jibs and counterweights can operate without coming into contact with retained trees. Such contact can result in serious damage to them and might make their safe retention impossible. Materials, which can contaminate the soil, e.g. concrete mixings, diesel oil and vehicle washings, should not be discharged within 10m of a tree stem.
	Fires should not be lit in a position where their flames can extend to within 5 m of foliage, branches or trunk. This will depend on the size of the fire and the wind direction. Notice boards, wires and such like should not be attached to any trees. Site offices, materials storage and contractor parking should all be outside the work exclusion zone.

Item	Comments
Services	Services entering and leaving the site area are routed so they are located outside the root protection zones of the trees to be retained.
	Prior to the installation of any services routed near trees, these are
	and a detailed method statement is to be prepared by the
	installation contractor in conjunction with the project Arboriculturist on how these services are to be installed while providing protection to the surrounding tree vegetation shown for retention.
Landscaping	The existing ground levels within the RPA of the trees are to be retained and incorporated into the finished landscaped development. Where changes in levels occur, these are to be either graded into the finished levels starting outside the RPA or alternatively, retaining wall structures are to be used differentiating between the different levels.
	All soft and hard landscaping within the RPA of the trees to be retained are to be carried out manually and the soil levels are not to be lowered or raised resulting in root damage to the trees. All surfaces are to be porous to allow the free movement of air and moisture to the roots below. Recommendations of sections 8 of BS5837 2012 are to be adhered to during the landscaping within the RPA's of these trees.
	In a number of places, paths/surfaces will encroach into the root zone of the tree vegetation to be retained and these sections of paths and surfacing will need to be installed using a 'No-Dig' method over the existing ground levels to avoid causing damage to the soil and roots underneath. Where it is necessary to provide extra support for heavier loading, it will be important to use a cellular confinement system such as 'CellWeb' within the construction of these sections of paths/surfaces. See 'Section 6.8.0' of our report for general detail on the installation of such product and the guidance of the Arboricultural Practice Note 12 ' The use of cellular confinement systems near trees' A guide to good practice'.
Boundary Treatments	The boundary treatments within the root zone of the tree and hedge vegetation being retained are of a fence type structure where there will only be a need to dig small diameter holes for the uprights. These holes for the uprights are to be dug manually with no machinery allowed inside the root protection areas. Work zones within the root protection areas for these trees will need to be protected during the construction of the boundary fences by boarding as per section 6.2.3 of BS 5837 2012. Where it is needed to install fences along existing hedges, it will be necessary to carry out some pruning of the side vegetation to allow access. This is to be kept to a minimum and where necessary, the hedges are to be augmented with new hedge planting to fill
	hedges are to be augmented with new hedge planting to fill openings and to bulk up screening.

5.3.3 Monitoring

Any construction works within close proximity to retained tree and hedge vegetation are advised to be undertaken in accordance with approved method statements prepared by the construction contractor under the direct supervision of a qualified consultant Arboriculturist. Therefore, during the construction works, a professionally qualified Arboriculturist is recommended to be retained by the principal contractor or site manager to monitor and advise on any works within the RPA of retained trees and hedges to ensure their retention and planning compliance.

It is advised that protection fencing, any required special engineering and supervision works must be included in the main tender documents, including responsibility for the installation, cost and maintenance of the protection measures throughout all construction phases.

Copies of the tree protection plan (Dwg No. RORR002) a copy of BS 5837(2012) and NJUG 4 (2007) should all be kept available on site during the construction works and all works are to be in accordance with these documents.

On the completion of the construction works, all tree and hedge vegetation retained is to be reviewed by the project Arboriculturist and any necessary remedial tree surgery works required to promote the health of these trees and hedgerows, and their safety are to be implemented.

6.0 Arboricultural Method Statement/Tree Protection Strategy

- 6.1 The objective of this arboricultural method statement/tree protection strategy is to provide information for the main contractor/site manager on how the tree and hedge vegetation needs to be protected during a construction project and so that they can prepare their own site specific detailed method statement for their works.
- 6.2 It is necessary for protective fencing to be erected and all other mitigation measures required to be put in place prior to the construction works commencing on site and these are to enclose and protect the root zone of the tree and hedge vegetation proposed for retention. See drawing (Dwg No.RORR002), for the position of the protective fencing and other mitigation measures.
- 6.3 The protection of the tree and hedge vegetation shown for retention within this proposed development of these SHD lands is divided into three main sections starting with the preconstruction stage right through to post construction and its reassessment.

Stage 1:

6.4.0 Pre-Construction Works

- 6.4.1 Prior to the main construction works commencing on site the following needs to be planned:
 - 1. The developer or main contractor needs to appoint an Arboriculturist for the duration of the project. The Arboriculturist is to make regular site visits to ensure that the protection measures are in place and adhered to.
 - 2. The main contractors and all sub-contractors work force are to be briefed on the protection and ensure that these measures are to be kept in place throughout the construction period.
 - 3. All personnel are to adhere to the recommendations of the appointed Arboriculturist.
 - 4. Any issues in relation to the tree and hedge vegetation shown for retention <u>must</u> <u>be</u> discussed with the appointed project Arboriculturist and the necessary mitigation measures put in place without delay and prior to the works being carried out.

6.5.0 Site meeting

6.5.1 Prior to any works commencing on site, it is necessary that a meeting be arranged between the project manager, site foremen, the project Arboriculturist and local authority to identify and finalize the tree and hedgerow removal and the line of the protective fencing.

6.6.0 Hedge/Tree works

- 6.6.1 The client or the main contractor is to appoint a tree surgery company competent of carrying out the remedial tree surgery works and felling that are required on this site. The tree surgery contractor is to produce a method statement detailing how he plans to undertake the works and informing the site foreman of the process so the necessary steps can be taken to ensure the works are carried out safely and efficiently. The works are to be carried out by appropriately trained personnel taking account of the recommendations of BS3998 2010.
- 6.6.2 **Hedge/Tree removal –** Hedges/trees for removal are to be identified by the project Arboriculturist and the method of removing the stumps is to be carried out to the recommendations of the project Arboriculturist. The hedges/trees in the way of the proposed development are to be removed in such a manner not to cause damage to those being retained. Where necessary to avoid damage to the hedges/trees to be retained, these are to be removed in sections by a tree surgeon (Arborist). Where necessary, the roots and stumps are to be dug out with a digger except where the stumps are located within the RPA (root protection area) of hedges/trees being retained. In this instance, the stumps are to be ground out with a mechanical stump grinder taking care not to cause damage to the roots of hedge/trees being retained.

6.6.3 **Remedial tree surgery works -** The necessary remedial tree surgery works required to promote health and safety of the hedges/trees to be retained is to be carried out. A schedule of these works is to be produced by the project Arboriculturist taking into consideration the hedges/trees within their new built environment and prior to these works being carried out; they are to be agreed with the local authority.

6.7.0 Erection of the protective fencing

- 6.7.1 Once the hedge/tree vegetation has been removed, the line of the protective fencing that is required around the hedge/tree vegetation being retained **must be** erected as per Dwg No. RORR002.
- 6.7.2 Where it is expected that there will be a high concentration of construction works, the fencing will need to be 2.3m high and constructed in accordance with figure 2 of BS 5837 2012 (see fencing detail within 'Appendix 1' & drawing No. RORR002) using vertical and horizontal scaffold bars well braced together with the verticals spaced out at a maximum of 3m centres and onto this, weld mesh panels are to be securely fixed with wire or scaffold clamps.

Where there is a lesser intensity of works, a three rail or chain-link fence structure 1.5m high or similar will be sufficient, (see fencing detail within 'Appendix 1').

- 6.7.3 Signs need to be attached to these fences warning people to 'keep out'. (See detail within 'Appendix 1').
- 6.7.4 Once the protective fence line is erected, then the main construction works can commence on site.
- 6.7.5 **Storage of Material, Work Yards and staff car parking -** These areas <u>must be</u> identified on the work drawings prior to the construction works starting. These must be positioned outside the root protection areas around the hedges/trees being retained

6.8.0 Ground Protection Installation for Pathways and Working Areas

6.8.1 The ground protection is to take the form of a product such as 'Cell Web' and this will need to be installed in the following manner under the guidance of the project Arboriculturist and engineer:

Step 1 - The existing ground cover vegetation (e.g. grass/weeds) if necessary is to be killed off using an appropriate herbicide (see Pesticides Handbook [15]). Herbicides that can leach through the soil, e.g. products containing sodium chlorate, are not be used.

The soil surface is not to be excavated to establish a sub base for the finished surfaces.

Loose organic matter, woody vegetation and/or turf are to be removed carefully using hand tools.

If there is a delay in installing the surface following clearing, the soil surface once prepared is to be covered immediately either with hessian sacking or plastic to prevent the surface drying out until the new surface is installed. **Step 2 –** Place the geotextile separation filtration layer over the prepared ground surface. Use a Fibretex F4M non-woven geotextile with dry joints overlapping by 300mm.

Step 3 – Place constraints along the edges to contain the fill material. These can be of such material as treated timber or railway sleepers.

Step 4 – Place the required cellular confinement system (Cell Web150-200mm) over the geotextile and pin/anchor the cell walls open for infilling.

Step 5 – Place the infill material of a 20-40mm clean sharp stone in the open cells of the Cell Web pushing the infill ahead of you so that the machinery is driving on the filled Cell Web. Compact the infill material to the desired density.

Step 6 – Slightly surcharge the Cell Web product with 25mm of 40/20mm clean angular stone.

Pictures show the Cell Web being installed on the ground.

The below diagram shows how the Cellular confinement system should be installed.





Stage 2:

6.9.0 The Construction Works Stage

6.9.1 **Protective fencing -** During the course of the works, special attention must be paid to ensure that these fences and all other protection measures are kept in place, in good order and remain upright, rigid and complete at all times. They must be checked daily by the main contractor/foreman and any damage noted must be fixed immediately.

If works need to take place inside the protective fence lines, then the project Arboriculturist must be informed in advance of the works taking place and the mitigation measures required to reduce impact on the tree and hedge vegetation agreed. These mitigation measures will include the supervisions of these works by the project Arboriculturist.

The protective fencing and all other protection measures are to remain in place throughout the construction works phase and <u>must</u> only be removed when all the works are complete and at this stage incorporated into the finished landscape.

6.9.2 **Excavations -** The excavation works are only to commence once the protective fence line and all other protection measures are in place.

The excavations need to be viewed on site once marked out with the project manager, site foreman and the project Arboriculturist in advance of excavation to determine the extent of the impact and the work space required to allow for the construction works to proceed and to assess what additional mitigation measures will be required to protect those hedge/ trees to be retained. In certain areas, it may be necessary to use an alternative method of excavating to prevent encroachment into the RPA of the hedges/trees to be retained and this may include such methods as retaining walls or similar.

Where roots of hedges/trees to be retained are exposed during the excavation works, these are to be assessed by the project Arborist and pruned back beyond damaged material. The excavated face is then to be covered with soil or with Hessian sacking to prevent further drying out and death of root material. Where the Hessian sacking is used, it will be necessary to keep this moist especially during dry periods.

6.9.3 **Working within the RPA** (*Root Protection Area*) – If it becomes necessary to carry out works within the RPA of a hedge/tree, these <u>must be</u> discussed and agreed with the project Arboriculturist. All works <u>must</u> be carried out manually. Root pruning is to be undertaken by an Arboriculturist using proprietary cutting tools such as a secateurs or hand pruning saw.

The ground within the RPA of the hedges/trees <u>must be</u> protected from damage as per the recommendations of **section 6.2.3** of BS5837 2012. See detail within appendix 1 on ground protection using boarding for pedestrian loading.

6.9.4 **Finished ground levels/Landscaping -** The existing ground levels within the RPA of hedges/trees <u>must</u> be retained and incorporated into the finished landscaped development. Where changes in levels occur, these are to be either graded into the finished levels starting outside the RPA or alternatively, retaining wall structures are to be used differentiating between the different levels.

All soft and hard landscaping within the RPA of the hedges/trees to be retained <u>must</u> be carried out manually and the soil levels <u>must not</u> be lowered or raised resulting in root damage to the hedges/trees. All surfaces are to be porous to allow the free movement of air and moisture to the roots below. Recommendations of sections 8 of BS5837 2012 must be adhered to during the landscaping within the RPA of the trees being retained.

6.10.0 Other items

6.10.1 The following is a list of additional activities <u>that are not allowed</u> within the RPA or within the vicinity of the hedges/trees being retained.

1 - Storage of equipment, fuel, construction material, or the stockpiling of soil or rubble.

- 2 Burning rubbish
- 3 -The washing of machinery
- 4 Attaching notice boards, cables or other services to any part of the tree.
- 5 Using neighbouring trees as anchor points.

6 - Care is required when using machinery such as Tele-porters, cranes or other equipment close to trees so as not to damage the crown or any other parts.

Stage 3:

6.11.0 Post Construction Works

6.11.1 This project is not to be considered complete until all retained tree and hedge vegetation have been re-examined by the project Arboriculturist and the remedial works necessary to ensure the health of the hedges/trees and the immediate safety of the end user of this development are implemented.

This report has been produced as part of a planning application for these lands and is for the sole use of the above named client and refers to only those hedges/ trees identified within. Its use by any other person(s) in attempting to apply its contents for any other purpose renders the report invalid for that purpose.

Signed Felim Sheridan

Date 20th April 2022

Felim Sheridan

F. Arbor. A, RFS Dip, Nat. Dip & NCH in Arboriculture

Felim Sheridan's qualifications:

Fellow of the Arboricultural Association (F. Arbor. A), Professional diploma Arboriculture (RFS), National diploma Arboriculture (ND) and National certificate Horticulture (NCH).

Appendix 1

- **1.1** Sample of Temporary Tree Protection Fencing Detail.
- **1.2** Sample of Ground Protection within Root Zone.
- 1.3 Sample of Trunk Protection
- 1.4 Sample of Toolbox Talk Sheet
- **1.5 Sample of Site Monitoring Sheet**

Appendix 1.1

Type 1 Protective Fence



Figure 2. – Protective fencing for RPA

Fence Type 2 - Detail of Tree protection fencing for lower intensity work areas.





Appendix 1.2 – Samples of ground protection within root zones



1. Lay min. 75m depth of sharp sand/wood chip over identified

ground area

2. Lay side-butting scaffold boards/15mm poly propylene road plate

over sand/wood chip

- 3. Fix ground protection cover into place with pins/pegs
- 4. Erect protection fence (where feasible).
- 5. Remove ground protection upon completion/landscaping only.



Appendix 1.3 – Sample of trunk protection.

Appendix 1.4 – Sample of Toolbox talk.



Don't

- Dig near any trees without asking the foreman or site engineer for the correct procedures
- Use an digger/excavator or hand dig within 10m of a tree on the street
- Excavate near trees without having the tree specialist on site to monitor the works
- Leave trees roots uncovered or dried out

Do



Protected Tree Monitoring Form Site Inspection Report		
Zone:		
Location:		
Tree Group / Number		
Tree Protection Checked By:		Date:
Status of tree protection:		
Remedial measures / comments:		
Copied to:		
Project Manager	Yes / No	
Project Manager's Arbericultural Consultant	Voc / No	
Copied To Project Manager:	Yes / No	
Contact Name		
Signed:		Date

Appendix 1.5 – Sample of site monitoring sheet



Condition Tree and Hedgerow Assessment

on 'SHD Lands' at Ratoath South, Co. Meath.

Date: 20th April 2022

Survey Notes

All codes referred to in this report are approximate and serve as a general guide only.

Reference to Numbers: The trees have metal tags attached and these correspond with the numbers in this report.

Reference to age class is as follows:

Young: A tree, which has been planted in the last 10 years.

Semi Mature A tree that is less than 1/3 the expected height of the species in question.

Early Mature: A tree, which is between a 1/3 and 2/3's the expected height of the species in question.

Mature: A tree that has reached the expected height of the species in question, but still increasing in size.

Over Mature: A tree at the end of its life cycle and the crown is starting to break up and decrease in size.

Reference to Physiological, Structural Condition and other comments:

Physiological Condition

Good: A tree with no major defects, but possibly including some small defects.

- **Fair:** A tree with some minor defects such as bark Wounds, isolated decay pockets or structure affected due to overcrowding.
- **Poor:** A tree with more serious defects such as extensive deadwood, decay or effective to the point of being dangerous.

Structural condition and other comments -

This records noted visual defects and other information about the trees health and structure.

Estimated Remaining Contribution in years

This is based on an Arboricultural assessment of the tree and is estimated based of the findings noted at time. Trees still need to be reviewed on a regular basis, preferably annually.

Less than (<) 10 years remaining contribution

- 10 + years remaining contribution
- 20 + years remaining contribution
- 40 + years remaining contribution.

Retention Categories

The purpose of the tree categorization method is to identify the quality and value of the existing tree stock, allowing informed decisions to be made concerning which trees should be removed or retained should development occur.

It is carried out in accordance with section 4.5 (Tree Categorization Method) of BS 5837 2012.

<u>Summary</u>

Main categories

- **Category U** Those trees in such a condition that any existing value would be lost within 10Years. Most of these will be recommended for removal for reasons of sound Arboricultural practice.
- **Category A** Trees of high quality/value with a minimum of 40 years life expectancy.
- **Category B** Trees of moderate quality/value with a minimum of 20 year life expectancy.
- Category C Trees of low quality/value with a minimum of 10 years life expectancy

Sub categories

- 1 Mainly Arboricultural Values
- 2 Mainly Landscape values
- 3- Mainly Cultural and conservation value

Note: Whilst C category trees will usually not be retained where they would impose a significant constraint on development, young trees with a stem diameter of less than 150mm should be considered for relocation.

If a layout design places Category U trees in an inaccessible location such that concerns over public safety are reduced to an acceptable level, it may be preferable or possible to defer the recommendation to fell.

The terms 'Group, woodland or tree line' is intended to identify trees that form cohesive Arboricultural features either aerodynamically (e.g. trees that provide companion shelter), visually (e.g. avenues or screens) or culturally including for biodiversity (e.g. parkland or wood pasture), in respect to each of the three subcategories.

Reference to Crown spread, Height and Trunk Diameter:

This gives a guide to the area taken up by the tree.

Trunk diameter is the diameter of the main trunk taken at a height of 1.5m and is recorded in millimeters (mm).

Height records the overall height of the tree and is given in meters (m).

Crown Spread records the extent of the branches normally in a north, south, east and west direction from the base of the tree and is given in meters (m).

Clear crown height records the distance between the ground and the first branch form the base of the tree and is given in meters (m).

Root Protection Area (RPA)

The Root Protection Area (RPA) is the minimum area around individual trees to be protected from disturbance during construction works; RPA is usually expressed as a radius in meters measured from the tree stem.

For single stem trees, the root protection area (RPA) should be calculated as an area equivalent to a circle with a radius 12 times the stem diameter.

For trees with more than one stem, one of the two calculation methods below should be used. The calculated RPA for each tree should be capped to 707 m2.

a) For trees with two to five stems, the combined stem diameter should be calculated as follows:

 $\sqrt{((\text{stem diameter 1})^2 + (\text{stem diameter 2})^2 ... + (\text{stem diameter 5})^2)}$ b) For trees with more than five stems (not illustrated in Annex C), the combined stem diameter should be calculated as follows:

 $\sqrt{((\text{mean stem diameter}) 2 \times \text{number of stems})}$

The RPA for each tree is plotted on the Tree Constraints Plan (No.ASC001); any deviation in the RPA from the original circular plot takes account of the following factors whilst still providing adequate protection for the root system:

a) The morphology and disposition of the roots, when influenced by past or existing site conditions (e.g. the presence of roads, structures and underground apparatus);

b) Topography and drainage;c) The soil type and structure;

d) The likely tolerance of the tree to root disturbance or damage, based on factors such as species, age, condition and past management.

Tree No.	Tree Species	Ht. (m)	Stem Dia. (mm)	Branch Spread (m)	C- Ht. (m)	Age Class	Phys. Con.	Structural Condition Other Comments	Preliminary Recommendation	Remain Contribute in years	Cat. Grade				
								N-north S-south E-east W- west Physphysiological.	A- average	-					
		A Cond			(h.a. 4wa		la at (Data	athi Ca Dublin							
Hedge	Hawthorn	A CONO	t extends north to south along the road frontage, from the boundary with a field.												
No. 1	Hawthorn Crataegus monogyna Bramble Rubus fruticosus Dogrose Rosa canina Ash Fraxinus excelsior	It exten It is of a Bramble manage undergr on the r previous	as north to mature age e and Dogro ement the he owth and er oad side du s road works	(mn) (m) modh Seouth E-east W-west Phys-physiological. A- average in years on Assessment of the trees on lands at "Ratoath' Co. Dublin. -<											
		The fol	lowing tree	s are locat	ed wit	hin Hedge	No. 1.								
1447	Ash	1 ne ass	essment of	Ine trees w	orks fr 7	om south te Mature	o north in c	arrection.	Remove dead/ unstable	10+	C2				
ודדו	A911	14	200			mature				10.	52				

Tree No.	Tree Species	Ht. (m)	Stem Dia. (mm)	Branch Spread (m)	C- Ht. (m)	Age Class	Phys. Con.	Structural Condition Other Comments	Preliminary Recommendation	Remain Contribute in years	Cat. Grade
								N-north S-south E-east W- west Physphysiological.	A- average		
	Fraxinus excelsior			S4 E4 W5				It forms part of the group canopy formation with the neighbouring trees and has been drawn up for the light as a result. Heavy lvy cover on the main trunk is causing suppression. It forms a twin-stemmed tree from base.	growth. Cut Ivy at ground level.		
1448	Sycamore Acer pseudoplatanus	13	320	N4 S4 E3 W3	5	Early Mature	Fair	Fair Multiple-stemmed from base and forms part of the understory. There is heavy lvy cover on the main stems.	Retain as part of the hedge bulking and cut lvy at ground level.	20+	C2
1449	Ash Fraxinus excelsior	15	370	N4 S3 E4 W3	6	Mature	Fair	Fair Multiple-stemmed from base and is growing up within a group environment and forms part of the upper canopy formation. It contains deadwood within its crown. Heavy Ivy cover on some stems is beginning to extend up into its crown.	Remove dead/ unstable growth. Cut Ivy at ground level.	10+	C2
1450	Ash Fraxinus excelsior	16	490	N6 S4 E5 W5	7	Mature	Fair	Fair It is growing up within a group environment with a secondary stem developing from its base. Heavy Ivy cover on the main trunk is beginning to extend up into its crown. It contains small to medium size deadwood throughout its crown and its crown overhang towards the road has been cut back in the past with stubs remaining.	Remove dead/ unstable growth. Prune stubs back to proper pruning points.	10+	C2
1451	Ash Fraxinus excelsior	14	580	N7 S5 E6 W4	6	Mature	Fair	Fair It is growing up with Tree No. 1450 and forms part of a combined canopy formation with an asymmetrical crown due to its growing environment. It contains small to medium size deadwood within its crown. Heavy Ivy cover on the main trunk is	Remove dead/ unstable growth. Cut Ivy at ground level.	10+	C2

Tree No.	Tree Species	Ht. (m)	Stem Dia. (mm)	Branch Spread (m)	C- Ht. (m)	Age Class	Phys. Con.	Structural Condition Other Comments	Preliminary Recommendation	Remain Contribute in years	Cat. Grade
								N-north S-south E-east W- west Physphysiological.	A- average		
								extending up into its crown and is beginning to cause suppression.			
1452	Ash Fraxinus excelsior	14	400	N2 S4 E4 W5	5	Early Mature	Fair/ Poor	Fair It is located on the left-hand side (north side) of the field entrance and forms part of the group canopy formation with Tree No.1453. Heavy Ivy cover on the main trunk is extending up into its crown with stress/ decline evident throughout with deadwood present.	Remove dead/ unstable growth. Cut Ivy at ground level.	10+	C2
1453	Ash Fraxinus excelsior	15	530	N2 S3 E4 W6	3	Early Mature	Fair	Fair It forms part of the group canopy formation with an asymmetrical crown formation as a result. It is becoming more isolated and open/exposed due to the storm damage occurring within the neighbouring trees. Heavy Ivy cover on the main trunk is extending up into its crown. It has possibly suffered soil and root damage, in particular on the north side due to the drainage ditch.	Cut Ivy at ground level and tidy up the area around its base to allow for a more detailed assessment.	10+	C2
Hedge No. 2	Hawthorn Crataegus monogyna Elder Sambucus nigra Dog Rose Rosa canina Bramble Rubus fruticosus	It runs bound drainae It is of a Brambl active r creating showin	at ninety d ary of the s ge ditch. a mature ag e and Dogro nanagemen g scrub area g signs of do	egrees to H ite area with e class in fa ose with Asl t, the hedge as on the sit ecline due t	Hedge th the in cond n and (e speci e side. o infec	No. 1 and 6 main hedg lition physic Goat Willow es, in partic The upper tion by Ash	Trim in all encroaching hedge species in order to tidy up the hedge structure. The Ash trees will need to be managed and those at an advanced stage of decline with decay will need to be removed to address health and safety.	-	C2		

Tree No.	Tree Species	Ht. (m)	Stem Dia. (mm)	Branch Spread (m)	C- Ht. (m)	Age Class	Phys. Con.	Structural Condition Other Comments	Preliminary Recommendation	Remain Contribute in years	Cat. Grade
								N-north S-south E-east W- west Physphysiological.	A- average	-	
	Ash Fraxinus excelsior Goat Willow Salix caprea										
		The fol	llowing tree	es are loca	ted on	the site si	de of the o	drainage ditch.			
1454	Ash Fraxinus excelsior	11	390	N2 S4 E2 W3	1	Semi Mature	Fair	Fair Self-seeded and is growing up on the site side of the drainage ditch and is establishing up over the surrounding vegetation. Secondary stems have been cut back from its base in the past.	Tidy up the undergrowth at the present time.	10+	C1
1455	Ash Fraxinus excelsior	12	210/ 180	N3 S4 E4 W3	2	Semi Mature	Fair	Fair It forms a twin-stemmed tree from base with an acute union formation between stems. Self-seeded into this area and is growing on the site side of the wide drainage ditch/ stream. It has a slightly asymmetrical crown formation due to competition from the neighbouring trees.	Tidy u the undergrowth at the present time.	10+	C1

Tree No.	Tree Species	Ht. (m)	Stem Dia. (mm)	Branch Spread (m)	C- Ht. (m)	Age Class	Phys. Con.	Structural Condition Other Comments	Preliminary Recommendation	Remain Contribute in years	Cat. Grade
								N-north S-south E-east W- west Physphysiological	A- average		
Hedge No. 3	Hawthorn Crataegus monogyna Crab Apple Malus sylvestris Elder Sambucus nigra Privet Ligustrum sp. Goat Willow Salix caprea	It runs The ma It is of a Hawtho vegetat Blackth order to heavy a	at ninety de in hedge lin mature age rn with Crab ion. Seedli orn mainly de contain and is a result.	egrees to I e is located e class in fa o Apple, Eld ng Goat W on the site s d has been It is being I	Hedge I on the iir cond der and illow is side wh allowe heavily	No. 2 and adjoining Privet mixe developing ich have er d grow up i suppresse	runs in a r landside of ohysiologica ed through on the site ncroached nto a high d by Ivy wi	north to south direction. f a deep drainage ditch which is wet in some places. ally and structurally. It consists of predominately out with Bramble and Dogrose dominating the lower the side of the drainage ditch, with Bramble and out from the hedge. It has not received trimming in hedge with some sections becoming tall and top- th storm damage occurring.	Trim in all encroaching hedge species in order to tidy up the hedge structure. Cut back the poorly structured sections in order to address stability and structural issues. Cut Ivy at ground level where it is heavy on the hedge plants in order to reduce wind sail and lessen further wind damage.		C2
1456	Ash Fraxinus excelsior	12	340	N3 S3 E4 W2	4	Semi Mature	Fair	Fair It is growing on the site side of the drainage ditch and has been drawn up and out for the light due to competition and is beginning to establish its crown	Requires no work at the present time.	10-20	C1

Tree No.	Tree Species	Ht. (m)	Stem Dia. (mm)	Branch Spread (m)	C- Ht. (m)	Age Class	Phys. Con.	Structural Condition Other Comments	Preliminary Recommendation	Remain Contribute in years	Cat. Grade
								N-north S-south E-east W- west Physphysiological.	A- average		
								above the height of the hedge. There is lvy cover on the main trunk.			
1457	Ash Fraxinus excelsior	20	1200	N7 S7 E8 W7	7	Mature	Fair	Fair It is growing on the soil bank on the adjoining landside of the boundary drainage ditch and is protruding up above the height of the hedge. It forms a twin-stemmed tree from base with an acute union formation between stems. It contains small to medium size deadwood throughout its crown and is showing signs of stress/ decline throughout, most likely associated with Ash dieback. There is light lvy cover on the main trunk.	Make safe large size dead/ unstable growth. Monitor its condition.	10+	C2
Hedge No. 4	Hawthorn Crataegus monogyna Elder Sambucus nigra Bramble Rubus fruticosus Dogrose Rosa canina Ash Fraxinus excelsior	It runs at ninety degrees to Hedge No. 3 and runs in a north to south direction along the site boundary with the adjoining field. It is of a mature age class in fair condition both physiologically and structurally. It consists of predominately Hawthorn with some Elder, Bramble and Dogrose dominating the lower vegetation and are encroaching out due to lapsed management. It is growing on a high soil bank with no defined boundary ditch on either side of this hedge line. There are young seedling Ash trees forming part of the bulking within this hedge.							Trim in all encroaching hedge species in order to tidy up the hedge structure. The poorly structured sections of hedge would benefit from being cut back in order to encourage lower growth development and to help improve its stability and structure.	-	C2
Tree No.	Tree Species	Ht. (m)	Stem Dia. (mm)	Branch Spread (m)	C- Ht. (m)	Age Class	Phys. Con.	Structural Condition Other Comments	Preliminary Recommendation	Remain Contribute in years	Cat. Grade
----------------	--	--	---	---	---	---	--	--	--	----------------------------------	---------------
								N-north S-south E-east W- west Physphysiological.	A- average		
Hedge No. 5	Hawthorn Crataegus monogyna Crab Apple Malus sylvestris Elder Sambucus nigra Privet Ligustrum sp. Goat Willow Salix caprea	It runs bounda existing It consis particula open sp being in the neig	at ninety d ary of the s g residentian sts of predo ar on the site bace side to npacted upo hbouring h	egrees to I site area an al develops ominately Ha te side due o maintain a on due to ov ouses.	Hedge d on the ment to awthorr to lapsa tidy ap vercrow	No. 4 and one boundaries the west. The west of the wes	extends in ry with the , Bramble a ment creat It has bee s been cut	a north-south direction along the western adjoining linear open space belonging to the and Dogrose encroaching out onto the lands, in ting scrub areas. It has been trimmed back on the n allowed to grow up tall with the lower vegetation back at the northern end behind the rear gardens of	Make safe large size dead/ unstable growth and prune back the poor quality sections of hedging in order to address stability and to encourage lower growth development. Trim in all encroaching hedge species in order to tidy up the hedge structure. Cut lvy at ground level where it is heavy on the hedge plants in order to reduce wind sail and further wind damage.		C2
1458	Ash Fraxinus excelsior	14	200/ 140/ 180/ 160	N5 S7 E6 W7	2	Mature	Fair	Fair Multiple-stemmed from base and is located at the southern end of the hedge line and towers over the surrounding hedge. Ivy cover on the main stems is beginning to extend up into its crown. It contains	Requires no work at the present time.	10-20	C2

Tree No.	Tree Species	Ht. (m)	Stem Dia. (mm)	Branch Spread (m)	C- Ht. (m)	Age Class	Phys. Con.	Structural Condition Other Comments	Preliminary Recommendation	Remain Contribute in years	Cat. Grade
								N-north S-south E-east W- west Physphysiological. deadwood in crown, generally of a small to medium	A- average		
Tree Line No.1	Ash Fraxinus excelsior	A 14	200 x 4 Stems	A N4 S4 E4 W4	A 2	Mature	Fair	Fair It protrudes up out over Hedge No. 5 and they are growing at close spacing to one another, forming part of the one group canopy formation. As a tree line feather they are of some prominence within the treescape of this area. Ivy cover on most trees is heavy and is beginning to extend up into its crown. A lot of these trees are multiple-stemmed from base and some are showing early signs of infection by Ash Dieback (<i>Hymenoscyphus Fraxineus</i>).	Make safe all large size dead/ unstable growth. Cut Ivy at ground level where it is heavy on the trees.	10-20	C2
Hedge No. 6	Hawthorn Crataegus monogyna Bramble Rubus fruticosus Dogrose Rosa canina Privet Ligustrum sp. Ash Fraxinus excelsior	It runs a of the s The ma places. has recu unmana hedge. utility lin maintain the soil	at ninety de site area wir in hedge lin The main h eived some aged on the The Ash tre he runs para n clearance levels have	egrees to I th the rear e would ap edge speci tidying and site side w es form par allel with the . The old o been altere	Hedge garde pear to es cons I trimmi ith scru ith scru rt of the hedge riginal ed arou	No.5 and e ns of the h be located sists of Hav ng works o b Bramble e upper can e on the nor drainage di ind the bas	xtends in ouses to t on the site wthorn, Bra n the gard in particula opy format thern side tch would a e of this he	an east to west direction and forms the boundary the north. e side of the open drainage ditch, which is wet in amble, Dogrose and Privet. It is a broad hedge and en side but has been allowed to grow more ar, which is encroaching out creating a broader tion either as individuals or in groups. The overhead and some trimming has been carried out in order to appear to have been filled in along some sections and edge and the trees within.	Make safe all large size dead/ unstable growth. Cut Ivy at ground level where it is heavy on the trees. Continue to monitor for infection by Ash Dieback (Hymenoscyphus Fraxineus).	-	C2

Tree No.	Tree Species	Ht. (m)	Stem Dia. (mm)	Branch Spread (m)	C- Ht. (m)	Age Class	Phys. Con.	Structural Condition Other Comments	Preliminary Recommendation	Remain Contribute in years	Cat. Grade
								N-north S-south E-east W- west Physphysiological.	A- average		
Tree Line No. 2	Ash Fraxinus excelsior	A 12	200 X 3 Stems	A N4 S4 E4 W4	A 2	Mature	Fair	Fair It is located at the western end of Hedge No. 6 and those located at the very western end have received pruning in the past in order to reduce their size and their overhang to the north has been cut back in the past due to the overhead utility lines. Heavy lvy cover on some trees is extending up into their crowns.	They would benefit from general tidying works within this area in order to open up this area and to allow for a more detailed assessment to be carried out. Cut Ivy at ground level where it is heavy on trees. They will require ongoing pruning in order to maintain clearance with the overhead utility lines.	10-20	C2
1459	Ash Fraxinus excelsior	17	450	N6 S5 E5 W6	3	Early Mature	Fair	Fair It forms a twin-stemmed tree from base and is growing up through the hedge line. Heavy Ivy cover on the main trunk is beginning to extend up into its	Cut Ivy at ground level and tidy up the area around its base to allow a more detailed assessment of its base and	10-20	C2

Tree No.	Tree Species	Ht. (m)	Stem Dia. (mm)	Branch Spread (m)	C- Ht. (m)	Age Class	Phys. Con.	Structural Condition Other Comments	Preliminary Recommendation	Remain Contribute in years	Cat. Grade
								N-north S-south E-east W- west Physphysiological.	A- average		
								crown.	lower trunk.		
Tree Group	Leyland Cypress Cupressus × leylandii Lawson Cypress Chamaecyparis lawsoniana	-	-	-	-	Early Mature	Fair	Fair They are located behind Tree No. 1460 within the garden and are growing up along the hedge and provide extra screening/ bulking within this area.	Management is outside of the site area control.	10- 20	C2
1460	Ash Fraxinus excelsior	13	520	N4 S5 E6 W6	4	Early Mature	Fair	Fair It is establishing above the height of the hedge with heavy Ivy cover on the main trunk. The visual assessment has been limited due to dense undergrowth.	Tidy up the area around its base and cut lvy at ground level to allow for a more detailed assessment.	10-20	C2
Tree Line No. 3	Ash Fraxinus excelsior	A 12	240 X 3 Stems	A N4 S4 E4 W4	A 2	Early Mature	Fair	Fair It is located within Hedge No. 6 at the eastern end with the bulk of them located on the adjoining landside of the boundary ditch. They form part of the higher bulking within the hedge line. They are located on the adjoining landside of the boundary fence, so ownership would be taken to be located outside the control of this site area. The lvy cover on some trees has been cut at ground level and is heavy on other trees. The overhead utility lines run on its north side and they have received pruning/ cutting back in order to maintain clearance.	They would require a more detailed assessment.	10-20	C2

Tree No.	Tree Species	Ht. (m)	Stem Dia. (mm)	Branch Spread (m)	C- Ht. (m)	Age Class	Phys. Con.	Structural Condition Other Comments	Preliminary Recommendation	Remain Contribute in years	Cat. Grade
			()	(,	()			N-north S-south E-east W- west Physphysiological.	A- average		
1461	Ash Fraxinus excelsior	16	270/ 160/ 310	N7 S6 E7 W5	0	Mature	Fair	Fair It is growing up within a group environment. The Ivy has been cut at ground level in the past and it now dead on the main trunk and within its crown. There are secondary stems/ suckers growing from its base.	Requires no work at the present time.	10-20	C2
	Lawson Cypress Chamaecyparis Iawsoniana	-	-	-	-	Early Mature	Fair	Fair They are located between Tree Nos. 1461 & 1462 and are located on the garden side of the boundary fence and add to the bulking/ tree cover to this boundary.	Management is outside of the site area control.	10-20	C2
1462	Ash Fraxinus excelsior	13	160/ 240/ 280	N6 S4 E3 W3	3	Mature	Fair	Fair Multiple-stemmed from base and forms part of the group canopy formation. The Ivy has been cut at ground level in the past and is now dead. It contains small to medium size deadwood in crown.	Requires no work at the present time.	10-20	C2
Hedge No. 7	Hawthorn Crataegus monogyna Privet Ligustrum sp. Gorse Ulex europaeus Bramble Rubus fruticosus Dogrose Rosa canina	It runs two fie It is of a the wes Dogros canopy encroa allowed structur	at ninety de Ids within t a mature age st side of a c e and Elder formation. ched out ont t o grow up red and pror	egrees from his site are e class, in a leep wet dra with Ash ra Due to laps to the surro tall and is la the to storm	n Hedg a. fair co ainage nging i ed mai unding osing it damag	ge No. 6 in Indition phy ditch and c n age from nagement, lands to the s hedge str e with some	a north-s siologicall onsists of seedlings the hedge e east and ructure wit e sections	outh direction and forms the boundary between y and structurally. The main hedge line is located on mainly Hawthorn with some Privet, Gorse, Bramble, to early-mature trees forming part of the upper species, in particular Bramble and Gorse have west and have created a broader hedge. It has been h some sections of the hedge plants becoming poorly being suppressed by Ivy.	It would benefit from general tidying works and trim in encroaching hedge species and cut back poorly structured sections of the hedge to aid stability and to encourage lower growth development. Cut lvy at ground level where it is heavy on the hedge plants to lessen the risk of wind damage.	-	C2

Tree No.	Tree Species	Ht. (m)	Stem Dia. (mm)	Branch Spread (m)	C- Ht. (m)	Age Class	Phys. Con.	Structural Condition Other Comments	Preliminary Recommendation	Remain Contribute in years	Cat. Grade
								N-north S-south E-east W- west Physphysiological.	A- average		
	Elder Sambucus nigra	The fol	llowing tree	es are locat	ted wit	hin Hedge	No. 7 wor	iting from north to south.			
1463	Ash Fraxinus excelsior	10	220	N4 S5 E3 W3	2	Early Mature	Fair / Poor	Fair It is growing on the hedgerow bank and forms part of the hedge bulking. Its crown is showing signs of reduced vigour / decline most likely due to infection by Ash Dieback (<i>Hymenoscyphus Fraxineus</i>). There is heavy lvy cover on the main trunk.	Cut Ivy at ground level and monitor its condition on an annual basis.	10+	C2
1464	Ash Fraxinus excelsior	13	120/ 300/ 150	N5 S4 E5 W2	5	Early Mature	Fair/ Poor	Fair Multiple-stemmed from base and is growing up forming part of the higher hedge bulking. Its crown is showing signs of reduced vigour most likely due to infection by Ash Dieback (<i>Hymenoscyphus</i> <i>Fraxineus</i>).	Monitor its condition on an an annual basis.	10+	C2

Tree No.	Tree Species	Ht. (m)	Stem Dia.	Branch Spread	C- Ht.	Age Class	Phys. Con.	Structural Condition Other Comments	Preliminary Recommendation	Remain Contribute	Cat. Grade
			(1111)	(11)	(11)			N-north S-south E-east W- west Physphysiological.	A- average	ill years	
1465	Ash Fraxinus excelsior	9	280	N6 S7 E5 W5	3	Early Mature	Fair / Poor	Fair It is growing off the bank of the boundary ditch and is multiple-stemmed from low down. Its crown is showing signs of reduced vigour and decline, possibly associated with infection by Ash Dieback (Hymenoscyphus Fraxineus).	Retain as part of the hedge bulking at the present time. Monitor its condition on an annual basis.	10+	C2
Tree No.1	Ash Fraxinus excelsior	10	360	N5 S6 E6 W5	3	Early Mature	Fair	Fair It is located on the east side of the drainage ditch and out from the main hedge line. It has a dense undergrowth of Bramble around its base with no access. There is light Ivy cover on the main trunk. It is well structured with minor signs of infection by Ash Dieback (<i>Hymenoscyphus Fraxineus</i>).	Tidy up the area around its base.	10+	C2
Tree No. 2	Ash Fraxinus excelsior	14	390	N5 S4 E5 W5	4	Early Mature	Fair It is located on the adjoining landside of the drainage ditch and consists of a group of self- seeded stems, located out from the main hedge line. They form part of the bulking within this area.	Tidy up the undergrowth.	10-20	C2	
Hedge No. 8	Hawthorn Crataegus monogyna Privet Ligustrum sp. Bramble Rubus fruticosus Dogrose Rosa canina	It runs The bul with sor Hawtho part of t above t adjoinin been al becomii which is	at ninety de k of the mai me hedge sp rn and Prive he bulking v he height of g lands to th lowed to gro ng increasing s increasing	egrees to h n hedge ve pecies, sucl et with Bran within this a the hedge. he north an bw up tall w igly prone to their wind l	ledge getatio h as Ha hble an rea and Due to d south ith no r o storm oading	No. 7 and n would ap awthorn clu d Dogrose d they are a b lapsed ma n creating la nanagemen d damage a . Some of t	runs in an pear to be mps devel dominating also formin anagement arge scrub nt and is to s a result. he hedge o	east to west direction. located on the northern-side of a wet drainage ditch oping on the south side. The main hedge species is g the lower vegetation with some Ash trees forming g part of the upper canopy formation and protrude t, Bramble in particular has encroached out onto the areas and making access difficult. The hedge has op-heavy and poorly structured, consequently A lot of the hedge plants are being suppressed by lvy encroachment on the northern side has been trimmed	Trim in all encroaching hedge species and make safe large size dead/ unstable growth. Trim in the poorly structured hedge sections to address stability and structure and to encourage lower growth development. Cut lvy at ground level where	-	C2

Tree No.	Tree Species	Ht. (m)	Stem Dia. (mm)	Branch Spread (m)	C- Ht. (m)	Age Class	Phys. Con.	Structural Condition Other Comments	Preliminary Recommendation	Remain Contribute in years	Cat. Grade
								N-north S-south E-east W- west Physphysiological.	A- average		
		back in The fol They ar the tree	recent time lowing tree re growing v	s. s. es are locativithin an op is area.	ted with en tree	hin Hedge line with a	ombined canopy which is of some prominence within	it is heavy on the hedge plants in order to improve their wind sail.			
1466	Ash Fraxinus excelsior	17	470	N7 S6 E6 W6	5	Mature	Fair	Fair It is a tall tree beginning to be heavily suppressed by Ivy. It is located on the north side of the drainage ditch and is twin-stemmed from base with other smaller stems present. It forms part of the upper canopy formation with a slightly asymmetrical crown formation.	Cut Ivy at ground level and tidy up the area around its base.	10-20	C2
1467	Ash Fraxinus excelsior	17	430	N7 S6 E5	5	Mature	Fair	Fair/Poor Twin-stemmed from base, with some stems growing off the drainage ditch bank. It forms part of the	Cut Ivy at ground level and tidy up the area around its base.	10-20	C2

Tree No.	Tree Species	Ht. (m)	Stem Dia. (mm)	Branch Spread (m)	C- Ht. (m)	Age Class	Phys. Con.	Structural Condition Other Comments	Preliminary Recommendation	Remain Contribute in years	Cat. Grade
								N-north S-south E-east W- west Physphysiological.	A- average		
				W4				upper canopy formation and is being heavily suppressed by lvy.			
1468	Ash Fraxinus excelsior	17	480/ 520/ 260	N7 S5 E7 W6	6	Mature	Fair	Fair It forms part of the upper canopy formation and is multiple-stemmed from base. Heavy lvy cover on some stems is beginning to extend up into its crown. It contains small to medium size deadwood in crown.	Make safe dead/ unstable growth. Cut Ivy at ground level where it is heavy on stems and tidy up the area around its base.	10-20	C2
1469	Ash Fraxinus excelsior	15	440	N6 S8 E5 W6	5	Early Mature	Fair	Fair It forms part of the overall group canopy formation and towers up above the hedge line. It is growing off the base of the hedgerow bank on the ditch side. Ivy cover on the main trunk is beginning to extend up into its crown. There are a few smaller secondary stems developing on the southern side of the drainage ditch.	The Ivy will require management in the short- medium term.	10-20	C2
1470	Ash Fraxinus excelsior	14	560/ 360/ 300	N8 S7 E6 W6	7	Mature	Fair	Fair Multiple-stemmed from base and forms part of the upper canopy formation. Ivy cover on the main trunk is becoming heavy on some stems. It is showing signs of reduced vigour and contains deadwood in crown.	Remove large size dead/ unstable growth. Tidy up the undergrowth and cut lvy at ground level.	10-20	C2
1471	Ash Fraxinus excelsior	16	400	N6 S7 E7 W5	8	Mature	Fair	Fair It is growing up within a group environment and is located on the southern side of the wet drainage ditch with an asymmetrical crown weighed out to the south. There is light Ivy cover on the main trunk. It is sheltered within its present group environment.	Remove dead/ unstable growth.	10-20	C2
1472	Ash	16	390/	N7	5	Mature	Fair	Fair	Remove dead/ unstable	10-20	C2

Tree No.	Tree Species	Ht. (m)	Stem Dia. (mm)	Branch Spread (m)	C- Ht. (m)	Age Class	Phys. Con.	Structural Condition Other Comments	Preliminary Recommendation	Remain Contribute in years	Cat. Grade
								N-north S-south E-east W- west Physphysiological.	A- average		
	Fraxinus excelsior		460	S7 E5 W6				It is located on the hedgerow bank and forms part of the group canopy formation. Multiple-stemmed from low down with an acute union formation between some stems. It contains deadwood in crown with light Ivy cover on the main trunk.	growth from within its crown.		
1473	Ash Fraxinus excelsior	12	450/ 360	N5 S6 E3 W5	7	Mature	Poor	Fair/ Poor It is located on the south side of the drainage ditch and its crown is showing signs of reduced vigour with stress/ decline evident throughout, and I suspect that this decline will lead to its death. It is beginning to be heavily suppressed by Ivy. Twin- stemmed from base.	I would recommend its <u>removal</u> as the most appropriate management option.	<10	U
1474	Ash Fraxinus excelsior	16	700	N5 S6 E3 W6	3	Mature	Fair	Fair It is a large, prominent tree beginning to be suppressed by Ivy. It is growing on the north bank of the ditch with minor dieback evident throughout its crown along with some deadwood.	Cut Ivy at ground level at the present time.	10-20	C2
1475	Ash Fraxinus excelsior	14	470	N8 S5 E5 W5	5	Mature	Fair / Poor	Fair/Poor It is growing close to Tree No. 1474 with a very asymmetrical crown weighed out to the north-east. It is growing on the bank of the ditch and there may be some undermining, stability issues as a result. It is beginning to be heavily suppressed by Ivy. It has suffered storm damage within its upper crown in the past, most likely due to heavy Ivy growth.	Cut Ivy at ground level and remove to a height of 2m from the lower trunk to allow for a more detailed assessment and tidy up the area around its base. Carry out pruning to address imbalance in the crown.	10+	C2
1476	Ash Fraxinus excelsior	15	370/ 250/ 240	N6 S7 E4 W5	1	Early Mature	Poor	Poor It is growing from the base of the hedgerow bank within the drainage ditch. Twin-stemmed from base with decay present where limbs were cut off in the	I would recommend its <u>removal</u> as part of management as it deteriorates in condition.	<10	U

Tree No.	Tree Species	Ht. (m)	Stem Dia. (mm)	Branch Spread (m)	C- Ht. (m)	Age Class	Phys. Con.	Structural Condition Other Comments	Preliminary Recommendation	Remain Contribute in years	Cat. Grade
								N-north S-south E-east W- west Physphysiological.	A- average		
								past. The upper crown is showing signs of decline and it has limited future potential.			
1477	Ash Fraxinus excelsior	16	600	N4 S6 E5 W6	4	Early Mature	Fair	Fair It is reasonably well structured and is establishing up above the height of the hedge. It leans slightly off the hedgerow bank. There is light Ivy cover on the main trunk.	Requires no work at the present time.	10-20	C2
1478	Ash Fraxinus excelsior	10	260	N3 S2 E3 W 3	4	Mature	Fair	Fair It is growing over the height of the hedge with some secondary stems developing from its base. It is growing off the hedgerow bank with light lvy cover on the main trunk.	Requires no work at the present time.	10-20	C2
Hedge No. 9	Hawthorn Crataegus monogyna Privet Ligustrum sp. Elder Sambucus nigra Ash Fraxinus excelsior	It runs betwee It is of a Hawtho formatic hedge s been all wind loa	at ninety de n fields with mature age rn and Prive on. It is locat species are e lowed to gro ading and so	egrees to h hin the situ e class, in fa et with Elde ed on the e encroachin ow up tall ar ome are of	ledge I e area. air conc r throug east sid g out or nd a lot poor str	No. 8 and dition both ghout along e of a deep n the west of the hed of the hed	runs in a r physiologic g with some o wet drain side and a ge plants a e to lapsed	horth-south direction, forming the boundary cally and structurally. The main hedge species is a Ash trees forming part of the upper canopy age ditch and is a reasonably continuous hedge. The re being dominated by Dogrose and Bramble. It has are being suppressed by Ivy which is increasing its management and are prone to storm damage.	Trim in all encroaching hedge species and remove large size dead/ unstable growth. Cut back the poorly structured sections to address safety and to encourage lower growth development. Cut Ivy at ground level where it is heavy on the hedge plants in order to improve their wind sail.	-	C2

Tree No.	Tree Species	Ht. (m)	Stem Dia. (mm)	Branch Spread (m)	C- Ht. (m)	Age Class	Phys. Con.	Structural Condition Other Comments	Preliminary Recommendation	Remain Contribute in years	Cat. Grade
								N-north S-south E-east W- west Physphysiological.	A- average		
		The fol The ass	lowing tree sessment w	es are locations from s	ted with outh to	hin Hedge north in dir					
1479	Ash Fraxinus excelsior	9	410	N2 S6 E5 W4	3	Mature	Fair	Fair/Poor It is growing up within a sheltered group environment and is located on the edge of the entrance between two fields. It has suffered soil and root damage with soil and debris piled into this area. It has also suffered a large size bark wound on the lower trunk allowing for the entry of decay. Heavy Ivy cover on the main trunk is extending up into its crown. Its crown is showing signs of stress/ decline throughout.	Cut Ivy at ground level and tidy up the area around its base.	10+	C2
1480	Ash Fraxinus excelsior	17	670	N6 S5 E7 W9	5	Mature	Fair/ Poor	Fair It is a large size, central tree within a group of three trees and is of value to the group canopy structure. Heavy Ivy cover on the main trunk is extending up into its crown. Its crown is showing some signs of reduced vigour and contains deadwood throughout. Soil and debris has been piled in around its base.	Make safe large pieces of deadwood. Cut lvy at ground level.	10-20	C2

Tree No.	Tree Species	Ht. (m)	Stem Dia. (mm)	Branch Spread (m)	C- Ht. (m)	Age Class	Phys. Con.	Structural Condition Other Comments	Preliminary Recommendation	Remain Contribute in years	Cat. Grade
								N-north S-south E-east W- west Physphysiological.	A- average		
1481	Ash Fraxinus excelsior	14	380	N6 S2 E4 W4	7	Early Mature	Fair	Fair It is growing up within the canopy of Tree No. 1480 with an asymmetrical crown drawn up and out for the light in a northerly direction as a result. It is sheltered within its present environment with light Ivy cover on the main trunk.	Requires no work at the present time.	10-20	C2
1482	Ash Fraxinus excelsior	14	590	N5 S4 E5 W4	2	Semi Mature	Fair	Fair It is growing off the bank of the ditch and is twin- stemmed from base with both stems fusing together at a height of 1.5m up. It is beginning to establish up over the height of the hedge. There is light Ivy cover on the main trunk.	Retain as part of the hedge bulking at the present time.	10-20	C2
1483	Ash Fraxinus excelsior	12	290	N3 S4 E5 W3	3	Mature	Fair	Fair It is growing on the hedgerow bank and is beginning to be heavily suppressed by Ivy. It leans out to the west with some secondary stems/ suckers growing from its base.	Cut Ivy at ground level at the present time.	10-20	C2
Hedge No. 10	Ash Fraxinus excelsior Sycamore Acer pseudoplatanus Hawthorn Crataegus monogyna Privet Ligustrum sp. Bramble Rubus	It exter lane (G It is of a Hawtho with the encroad	nds east to lascarn lan a mature ago orn, Privet, E field side b ching. Ther	west along ne). e class in fa Bramble, Do reing allowe e is no defir	the normality of the normality of the normality of the normality of the second	orthern bo lition both p and Elder. I ow up more undary ditcl	undary of physiologic It has beer e unmanaç h.	the site area and is bordering with the adjoining ally and structurally. It consists of Ash, Sycamore, a cut / maintained as a low hedge from the roadside yed with scrub species, in particular Bramble	Continue present maintenance. Trim on the field side to contain its width and structure.	-	C2

Tree No.	Tree Species	Ht. (m)	Stem Dia. (mm)	Branch Spread (m)	C- Ht. (m)	Age Class	Phys. Con.	Structural Condition Other Comments	Preliminary Recommendation	Remain Contribute in years	Cat. Grade
								N-north S-south E-east W- west Physphysiological.	A- average		
	fruticosus Dogrose Rosa canina Elder Sambucus nigra										
Hedge No. 11	Hawthorn Crataegus monogyna Elder Sambucus nigra Ash Fraxinus excelsior Sycamore Acer pseudoplatanus Bramble Rubus fruticosus Dog Rose Rosa canina	It runs of the s It is of a (west si Hawtho It has bo hedge. encroad	at ninety d site area and mature age de) of a dee rn, Elder, A een cut, clip It has been ching out on	egrees to I ad is borde e class and ep drainage sh and Syc oped and m a allowed to ato the land	Hedge ring wi l in fair e ditch o amore. aintaino grow r s with l	No. 10 and ith the land condition b cordoning it ed from the nore unma vy dominat	d extends e. oth physio f off from th e lane way naged on th ing some of	in a north-south direction along the east boundary logically and structurally. It is located on the field side he laneway. The main hedge species consist of which has helped to maintain a good structured the field side with scrub species, in particular Bramble of the hedge plants.	Continue present maintenance. Trim on the field side to contain its width and structure.		C2

Tree No.	Tree Species	Ht. (m)	Stem Dia. (mm)	Branch Spread (m)	C- Ht. (m)	Age Class	Phys. Con.	Structural Condition Other Comments	Preliminary Recommendation	Remain Contribute in years	Cat. Grade
								N-north S-south E-east W- west Physphysiological.	A- average		
Hedge No. 12	Ash Fraxinus excelsior Sycamore Acer pseudoplatanus Hawthorn Crataegus monogyna Privet Ligustrum sp. Bramble Rubus fruticosus Dogrose Rosa canina Elder Sambucus nigra	It runs lanewa It is of a maintain from the	parallel to l y and the a mature age ned as a lov e road.	Hedge No. Idjoining fi e class in fa v tidy hedge	10 on f eld to f air conc e and is	the norther the north. lition both p s located or	n side of the hysiologicant the field s	the lane and forms the boundary between the ally and structurally. It has been clipped and side (north side) of the drainage ditch separating it	Continue present maintenance.	-	C2
Hedge No. 13	Hawthorn Crataegus monogyna Elder Sambucus nigra Bramble Rubus fruticosus Dogrose Rosa canina	It runs ditch th It is of a Hawtho upper c form pa a lot of are beir the road tall in re	north-sout nat cordons in mature age rn, Elder, Bi anopy forma rt of the upp the Ash tree ing heavily so d, but has bo cent years,	h along the s it off from e class in fa ramble, Do ation. Ther per canopy es forming r uppressed een allowed which has	e easte n the ro air conc grose a re is evi formati multiple by Ivy. d to gro impact	ern side of bad. lition both p and Privet w dence of w on at a heig -stemmed It has been w more united on the lo	the lane a hysiologica vith Gorse here it was ght of 1.5m trees from n trimmed o managed c ower veget	nd is located on the field side of the drainage ally and structurally. The main hedge species include on the field side and Ash trees forming part of the s cut in the past including a lot of the Ash trees that n up and have since been allowed to grow up tall, with the previous cut points. Some sections of the hedge on the roadside in order to maintain clearance with on the field side. It has also been allowed to grow up ation and its structure.	It would benefit from the trimming in of encroaching hedge species. The poorly structured sections of Hedge should be cut back in order to address stability and safety issues. Where Ivy is suppressing the sections of hedge, this needs to be cut at ground level.	-	C2

Tree No.	Tree Species	Ht. (m)	Stem Dia. (mm)	Branch Spread (m)	C- Ht. (m)	Age Class	Phys. Con.	Structural Condition Other Comments	Preliminary Recommendation	Remain Contribute in years	Cat. Grade
								N-north S-south E-east W- west Physphysiological.	A- average		
	Privet Ligustrum sp. Gorse Ulex europaeus Ash Fraxinus excelsior										

Tree No.	Tree Species	Ht. (m)	Stem Dia. (mm)	Branch Spread (m)	C- Ht. (m)	Age Class	Phys. Con.	Structural Condition Other Comments	Preliminary Recommendation	Remain Contribute in years	Cat. Grade
								N-north S-south E-east W- west Physphysiological.	A- average		
		The fol The ass	lowing are sessment wo	the more p orks from n	promin orth to	ent trees v south.	<image/>				
1484	Ash Fraxinus excelsior	15	490	N7 S4 E5 W6	8	Mature	Fair	Fair It has an independent crown towering over the hedge. It is showing some signs of minor stress/ decline throughout due to infection by 'Ash Dieback (<i>Hymenoscyphus Fraxineus</i>). Heavy Ivy cover on the main trunk is beginning to extend up into its crown. It contains deadwood throughout its crown.	Remove dead/ unstable growth. Cut Ivy at ground level. Monitor its condition on an annual basis.	10+	C2
1485	Ash Fraxinus excelsior	14	380	N2 S4 E6	5	Early Mature	Fair	Fair It is a tall tree growing up within a sheltered group environment. Its crown is showing early signs of	Remove dead/ unstable growth at the present time. The Ivy will require	10+	C2

Tree No.	Tree Species	Ht. (m)	Stem Dia. (mm)	Branch Spread (m)	C- Ht. (m)	Age Class	Phys. Con.	Structural Condition Other Comments	Preliminary Recommendation	Remain Contribute in years	Cat. Grade
								N-north S-south E-east W- west Physphysiological.	A- average		
				W5				decline, most likely due to infection by Ash Dieback (<i>Hymenoscyphus Fraxineus</i>). Ivy cover on the main trunk is becoming heavy.	management in the short- medium term.		
1486	Ash Fraxinus excelsior	13	400	N4 S5 E5 W4	2	Early Mature	Fair	Fair It is growing from the base of the drainage ditch and is growing up forming part of the group canopy formation. Its crown is showing early signs of decline due to infection by Ash Dieback <i>(Hymenoscyphus Fraxineus)</i> . Ivy cover on the main trunk is beginning to suppress its crown.	Remove dead/ unstable growth. Cut Ivy at ground level.	10+	C2
1487- 1488	Ash Fraxinus excelsior	A 13	A 370	A N3 S4 E6 W6	A 3	Early Mature	Fair	Fair It consists of a group of stems forming part of the higher bulking within this hedge. They are growing up together and the larger stems have been tagged. The bulk of them are developing from where they were cut/ coppiced into the hedge during past management. Ivy cover on some stems is becoming heavy. There is evidence of decline/ reduced vigour in some stems due to infection by 'Ash Dieback', in particular Tree No. 1488.	Cut Ivy at ground level. Tree No. 1488 will most likely need to be removed in the short-term as part of management.	10+	C2
1489	Ash Fraxinus excelsior	15	480	N5 S4 E5 W6	5	Mature	Fair	Fair It has a relatively independent crown formation with minor signs of infection by 'Ash Dieback'. There is Ivy cover on the main trunk.	Remove dead/ unstable growth. Cut Ivy at ground level.	10-20	C2
1490- 1492	Ash Fraxinus excelsior	A 14	420	N4 S4 E6 W4	5			Fair They are growing up together forming part of the one group/ canopy formation. They are all showing some signs of reduced vigour/ decline due to	Make safe dead/ unstable growth. Cut Ivy at ground level.	10-20	C2

Tree No.	Tree Species	Ht. (m)	Stem Dia. (mm)	Branch Spread (m)	C- Ht. (m)	Age Class	Phys. Con.	Structural Condition Other Comments	Preliminary Recommendation	Remain Contribute in years	Cat. Grade
								N-north S-south E-east W- west Physphysiological. infection by 'Ash Dieback'. Ivy cover on their main trunks is beginning to establish up into their crowns. Tree No. 1492 has had a lower limb removed in the past with a decay wound at this point.	A- average		
Tree Line No. 4	Ash Fraxinus excelsior Elm Ulmus glabra	A 13	A 300	N6 S6 E6 W6	3	Early Mature	Fair	Fair It runs within Hedge No. 13 and consists of mostly multiple-stemmed Ash trees developing from where they were cut/ coppiced into the hedge during past management and they now form part of the upper canopy formation of this hedge along with some Elm trees. Some trees are showing signs of decline/ infection due to infection by 'Ash Dieback'. Ivy cover on some stems is becoming heavy and is extending up into their crowns.	Make safe dead/ unstable growth and the trees that are infected by 'Ash Dieback'. Cut Ivy at ground level where it is heavy on trees. Monitor their condition and manage accordingly. The Elm trees will need to be monitored for infection by 'Dutch Elm' disease.	10-20	C2
1493	Elm Ulmus glabra	9	110	N1 S2 E3 W4	5	Early Mature	Poor	Poor It consists of a group of stems growing out of the hedgerow bank, and some are dead due to infection by 'Dutch Elm;' disease and others are in declining health as a result. There is heavy lvy cover on the main stems.	Cut all stems back into the hedge as part of management.	<10	U
1494	Ash Fraxinus excelsior	14	580	N8 S7 E9 W6	3	Mature	Fair	Fair It has a broad, spreading crown formation and is growing out of the old drainage ditch on the base of the hedgerow bank. There is a utility line that runs through the centre of its crown and it has received pruning in the past in order to maintain clearance	Remove dead/ unstable growth. Monitor its condition on an annual basis.	10-20	C2

Tree No.	Tree Species	Ht. (m)	Stem Dia. (mm)	Branch Spread (m)	C- Ht. (m)	Age Class	Phys. Con.	Structural Condition Other Comments	Preliminary Recommendation	Remain Contribute in years	Cat. Grade
								N-north S-south E-east W- west Physphysiological.	A- average		
								with this utility line. Its crown is showing signs of reduced vigour and contains deadwood throughout, possibly due to infection by 'Ash Dieback'. It has received pruning on the roadside in the past. There is light Ivy cover on the main trunk.			
Tree Line No. 5	Ash Fraxinus excelsior Elm Ulmus glabra	A 14	A 350	N 5 S5 E5 W5	4	Early Mature	Fair	Fair It extends southwards from Tree No. 1494. It consists of predominately Ash with some Elm mixed throughout. It is establishing above the height of the hedge line and the bulk of their stems have been cut/ coppiced into the hedge during past management, but have since been allowed to grow up tall forming multiple-stemmed trees from the old cut points. Some of the Ash trees are showing signs of infection by 'Ash Dieback' with decline evident and some of the Elm trees showing signs of infection by 'Dutch Elm' disease. The lvy cover on some trees is becoming heavy.	Make safe dead/ unstable growth. Cut Ivy at ground level where it is heavy on stems.	10-20	C2
Hedge No. 14	Leyland Cypress 'Castlewellan gold' Cupressus x leylandii 'Castlewellan gold'	It runs a bounda It is of a adjoinin from the hedge is They pr	at ninety d ary of the s mature age g landside o garden sid s a broken l ovide the hi	egrees to h ite area an e class in fa of the bound le with som ine of ornar igher bulkin	ledge d form iir to go dary fei e Bram mental g/ scree	No.13 and s the bound of condition nce. It has bles estab trees cons ening alon	extends in ndary with on both ph s been trin lishing on isting of pr g this bour	in an east to west direction along the northern in the adjoining residential property. ysiologically and structurally and is located on the mmed/ maintained as a low formal hedge, in particular the field side. Located within the garden, behind this redominately Birch with some upright Poplar trees. indary.	It would benefit from ongoing trimming, in particular additional trimming on the field side in order to maintain. Remove scrub species.	-	C2

Tree No.	Tree Species	Ht. (m)	Stem Dia. (mm)	Branch Spread (m)	C- Ht. (m)	Age Class	Phys. Con.	Structural Condition Other Comments	Preliminary Recommendation	Remain Contribute in years	Cat. Grade
								N-north S-south E-east W- west Physphysiological.	A- average		
Hedge No. 15	Hawthorn Crataegus monogyna Gorse Ulex europaeus Elder Sambucus nigra Privet Ligustrum sp. Bramble Rubus fruticosus Dogrose Rosa canina	It runs The ma the east some se shelterin being su	in a north-s in hedge lin t side. It co ections. Th ng/ grazing uppressed b	south direct re is located nsists of pr e lower veg within this a by lvy.	ction a d on the edomir getation area. T	nd forms t e west side hately Hawt has been the hedge p	he bound of a deep horn with 0 impacted u plants have	ary between the two fields. wet drainage ditch with some vegetation located on Gorse, Elder, Privet, Bramble and Dogrose dominating upon and is being grazed off by the livestock a been allowed to grow up tall with some sections	Make safe large size dead/ unstable growth. Cut Ivy at ground level where it is heavy and trim in all encroaching hedge species.	-	C2

Tree No.	Tree Species	Ht. (m)	Stem Dia. (mm)	Branch Spread (m)	C- Ht. (m)	Age Class	Phys. Con.	Structural Condition Other Comments	Preliminary Recommendation	Remain Contribute in years	Cat. Grade
								N-north S-south E-east W- west Physphysiological.	A- average		
		The fo	llowing tree	es form pa	rt of th	nis hedge.					
Tree No. 3	Ash Fraxinus excelsior	15	460	N4 S6 E4 W5	4	Mature	Fair	Fair It is located on the east side of the hedge, on the adjoining landside of the drainage ditch. Multiple- stemmed from base with a lot of soil erosion and compaction being caused around its base by the livestock sheltering/ grazing within this area. Its crown is showing some signs of reduced vigour throughout. There is Ivy cover on the main trunk.	Requires no work at the present time.	10-20	C2
Hedge No. 16	Hawthorn Crataegus monogyna Elder Sambucus nigra Bramble Rubus fruticosus Dogrose Rosa canina Crab Apple Malus sylvestris	It runs end of I The ma Hawtho side of t Bramble result of left very some of fencing	in an east t hedge No.1 in hedge lin rn with som he ditch, co e is encroad f this hedge sparse in le them prone wire.	to west dire	ection I on the I Prived edomin to the ved to a ation a n wind	and forms e north-side t, Bramble a lately of Bra surrounding grow up tal nd the hed s due to str	the boun of a dry d and Dogros amble. Du g fields. Th I and livest ge plants h ructural iss	dary between the fields running from the southern rainage ditch and the main hedge species include se with some vegetation establishing on the south ue to lapsed management the scrub species such as re upper canopy contains Ash and Crab Apple. As a tock being allowed to graze in this area, it has been ave been allowed to become tall and top-heavy, with ues. It has been reinforced in some places with	Make safe large size dead/ unstable growth. Trim in encroaching hedge species and cut the poorly structured sections of hedge back to help stabilize and to encourage lower growth development. It would benefit from general tidying works.	-	C2

Tree No.	Tree Species	Ht. (m)	Stem Dia. (mm)	Branch Spread (m)	C- Ht. (m)	Age Class	Phys. Con.	Structural Condition Other Comments	Preliminary Recommendation	Remain Contribute in years	Cat. Grade
								N-north S-south E-east W- west Physphysiological.	A- average		
		The foll direction	lowing tree on.	s are loca	ted wit	hin this he	edge and t	he assessment works from east to west in			
Tree Nos. 4 – 7 & 1495- 1496	Ash Fraxinus excelsior	A 11	A 190/ 180	A N7 S4 E8 W5	A 5	Mature	Fair	Fair It consists of a short line of Ash and they are all growing up together at close spacing's and form part of the one group/ canopy formation and they provide support/ shelter to one another. They have suffered bark wounding on their lower trunks and surface roots caused by the livestock sheltering/ grazing within this area. Some of these trees are showing early signs of infection by 'Ash Dieback' and contain deadwood throughout their crowns. There is light Ivy cover on most stems and it is beginning to extend up into the crowns of some trees. There is evidence of infection by 'Bacteria Canker' of Ash.	Make safe large size dead/ unstable growth. Cut Ivy at ground level where it is heavy on the trees.	10-20	C2
1497	Ash Fraxinus excelsior	18	410/ 450/ 340	N7 S6 E10 W9	5	Mature	Fair	Fair Three-stemmed from base with fencing wire attached to the lower trunk. It has suffered bark wounding and soil erosion caused by the livestock sheltering/ grazing within this area. It forms part of the outer canopy formation of the previous line of trees. It contains deadwood in crown.	Requires no work at the present time.	10-20	C2
1498- 1499	Crab Apple Malus sylvestris	11	200	N3 S3 E3 W3	3	Mature	Fair	Fair/ Poor They are growing up through the hedge and have been allowed to grow up tall. They form part of the higher hedge bulking and some stems have been broken off over the years.	They would benefit from general tidying works. Cut Ivy and Bramble from around their bases.	10-20	C2

Tree No.	Tree Species	Ht. (m)	Stem Dia.	Branch Spread	C- Ht.	Age Class	Phys. Con.	Structural Condition Other Comments	Preliminary Recommendation	Remain Contribute	Cat. Grade
			(mm)	(m)	(m)					in years	
								N-north S-south E-east W- west	A- average		
4500		A 40	A 000/			NA 1		Physphysiological.		40.00	00
1500	Asn	A 12	A 280/ 210	A N5	A 3	Mature	⊦aır	Fair These are president from the same have and form month	Cut ivy at ground level.	10-20	C2
	Fraxinus		210	53				I ney are growing from the same base and form part			
	exceisior			E9				of the buiking within this header. The Ash tree is			
	Crab Apple			880				twin-stemmed from base and protrudes up above			
	Maius							the height of the heage. It is showing signs of			
	sylvestris							dieback, possibly due to intection by Ash Dieback.			
								Fencing wire has been embedded into the lower			
								trunk of the Ash tree. The Crab Apple is becoming			
4004	<u> </u>	40	200	N14	-	NA 1	_ ·	neavily suppressed by ivy.		40.00	00
1901	Crab Apple	13	300	N4	5	Mature	⊦aır		Make safe dead/ unstable	10-20	C2
	Malus			53				It forms part of the higher bulking within this hedge.	growth.		
	sylvestris			E5				Multiple-stemmed from base and is of a large size	Cut Ivy at ground level where		
				VV5				for this species. Ivy cover on some stems is	it is heavy.		
								becoming heavy.			
Hedge	Hawthorn	It runs a	at ninety de	egrees to I	ledge	No. 16 in a	i north-soi	uth direction.	Make safe large size dead/	-	C2
No. 1/	Crataegus	It is of a	mature age	e class in fa	ur cond	ition both p	ohysiologic	ally and structurally. The main hedge line is located	unstable growth.		
	monogyna	on the e	ast side of a	a dry draina	age dito	ch and it co	Insists of H	awthorn, Elder, Privet, Bramble and Dogrose with the	I rim in encroaching hedge		
	Elder	upper ca	anopy conta	aining some	e Ash a	nd Sycamo	pre trees. I	t has been allowed to grow up tall with limited	species and cut the poorly		
	Sambucus	mainten	ance allowi	ng scrub sp	becies,	in particula	ar Bramble	to encroach out on either side creating a broad scrub	structured sections of hedge		
	nıgra	hedge o	on either sid	e. Itisad	ouble s	ided hedge	e with vege	tation growing on both sides of the drainage ditch,	back to help stabilize, to		
	Privet	howeve	r the main h	ledge would	d appea	ar to be mo	ore continue	ous and located on the eastern side.	address structural issues and		
	Ligustrum sp.								to encourage lower growth		
	Bramble								development.		
	Rubus								It would benefit from general		
	truticosus								tiaying works.		
	Dogrose										
	Rosa canina										
	Sycamore										
	Acer										
	pseudopiatanus										

Tree No.	Tree Species	Ht. (m)	Stem Dia. (mm)	Branch Spread (m)	C- Ht. (m)	Age Class	Phys. Con.	Structural Condition Other Comments	Preliminary Recommendation	Remain Contribute in years	Cat. Grade
								N-north S-south E-east W- west Physphysiological.	A- average		
	Ash Fraxinus excelsior	The foll	lowing tree	es are loca	ted wit	hin this he	edge.				
1902- 1903	Ash Fraxinus excelsior	A 14	A 340	A N4 S4 E5 W5	A 3	Early Mature	Fair	Fair They form part of the group canopy formation and are tall, multiple-stemmed trees from base, possibly from where they were cut/ coppiced back into the hedge in the past. They form part of the upper canopy formation with Ivy cover on some stems.	The Ivy will require management in the future.	10-20	C2
1904	Sycamore Acer pseudoplatanus	14	120/ 300/ 340	N5 S6 E7 W6	3	Mature	Fair / Good	Fair Multiple-stemmed from base and forms part of the group canopy formation. There is light Ivy cover on the main trunk with suckers developing from its base.	Requires no work at the present time.	20+	B1
1905	Ash Fraxinus excelsior	14	280	N3 S2 E4	3	Mature	Fair	Fair It is growing up within a group environment and is a tall, sheltered tree. Ivy cover on the main trunk is	Requires no work at the present time. The Ivy will require	10-20	C2

Tree No.	Tree Species	Ht. (m)	Stem Dia. (mm)	Branch Spread (m)	C- Ht. (m)	Age Class	Phys. Con.	Structural Condition Other Comments	Preliminary Recommendation	Remain Contribute in years	Cat. Grade
								N-north S-south E-east W- west Physphysiological.	A- average		
				W6				beginning to extend up into its crown.	management in the future.		
1906	Ash Fraxinus excelsior	13	900/ 510	N6 S8 E5 W4	2	Mature	Fair	Fair It is growing on the hedgerow bank and is multiple- stemmed from base. Heavy Ivy cover on the main trunk is extending up into its crown. It contains deadwood in crown and I suspect that it is infected by 'Ash Dieback'.	Cut Ivy at ground level at the present time.	10-20	C2
1907	Ash Fraxinus excelsior	12	210/ 180	N3 S4 E5 W5	1	Early Mature	Fair/ Poor	Fair It forms part of the higher bulking within this hedge and is multiple-stemmed from base. Ivy cover on the main trunk is becoming heavy. Its crown is showing signs of decline/ dieback as a result of infection by 'Ash Dieback'.	Cut Ivy at ground level at the present time. Monitor its condition on an annual basis.	10+	C2
1908	Ash Fraxinus excelsior	13 380 N7 1 Mature Fair/ S6 E4 W5 V5						Fair/ Poor Its crown is showing signs of decline/ dieback throughout as a result of infection by 'Ash Dieback'. Heavy lvy cover on the main trunk is extending up into its crown and is causing suppression.	Cut Ivy at ground level at the present time. Monitor its condition on an annual basis.	10+	C2
1909	Ash Fraxinus excelsior	13	320	N3 S2 E5 W5	3	Mature	Fair/ Poor	Fair It consists of a group of Poplar stems establishing up above the height of the hedge. Some has suffered bark wounds on their lower trunks with some localized decay present with signs of reduced vigour throughout their crown due to infection by 'Ash Dieback'.	Cut Ivy at ground level at the present time.	10+	C2
Hedge No. 18	Hawthorn Crataegus monogyna Elder	It runs side of It is loca It is of a Hawtho	at ninety d a section o ated on the mature ago rn, Elder, B	egrees to H of 'Glascau field side of e class in fa ramble and	Hedge rn Lane a drair ir cond Dogro	No.17 to c e'. hage ditch lition physi se along w	which has ologically a ith some A	with hedge No.13 and is located on the southern been partially filled in during the previous road works. and structurally. The main hedge species include sh and Sycamore trees forming part of the hedge	Make safe large size dead/ unstable growth. Trim in encroaching hedge species.	-	C2

Tree No.	Tree Species	Ht. (m)	Stem Dia. (mm)	Branch Spread (m)	C- Ht. (m)	Age Class	Phys. Con.	Structural Condition Other Comments	Preliminary Recommendation	Remain Contribute in years	Cat. Grade
								N-north S-south E-east W- west Physphysiological.	A- average		
	Sambucus nigra Privet Ligustrum sp. Bramble Rubus fruticosus Dogrose Rosa canina Ash Fraxinus excelsior Poplar	bulking develop as a resover the	with most h sing with mu sult of Ash E e years in or	aving been Iltiple- stem Dieback. It rder to cont	cut/co s from is a rea ain.	ppiced into these past sonably co	the hedge cut points. Intinuous h	<text></text>			
Hedge No. 19	Hawthorn Crataegus monogyna Elder Sambucus nigra Privet Ligustrum sp. Bramble	It runs a It is of a Hawtho upper c bounda encroac reinforc	at ninety d mature ag rn with som anopy, alor ry ditch. Du ched out to ed with fend	egrees to I e class in fa ne Elder, Pri ng with som ue to lapsed create a bro cing wire.	Hedge air cond ivet, Bra e Elm a d manaq bad hec	No.8 and r ition physic amble, Dog and Poplar. gement, the Ige line and	uns in a n blogically a grose and (The main e hedge sp d scrub are	orth-south direction. Ind structurally. The main hedge species consist of Gorse on the outer edges with Ash trees forming the hedge line is located on the west side of a deep wet becies, in particular the Bramble and Gorse have eas. Some sections of this hedge have been	Make safe large size dead/ unstable growth. Trim in encroaching hedge species.	-	C2

Tree No.	Tree Species	Ht. (m)	Stem Dia. (mm)	Branch Spread (m)	C- Ht. (m)	Age Class	Phys. Con.	Structural Condition Other Comments	Preliminary Recommendation	Remain Contribute in years	Cat. Grade
								N-north S-south E-east W- west Physphysiological.	A- average		
	Rubus fruticosus Dogrose Rosa canina Gorse Ulex europaeus Ash Fraxinus excelsior Poplar					X					
		The foll	lowing tree	es are loca	ted with	hin Hedge	No. 18.				
		The ass	essment w	orks from n	orth to	south in di	rection.				

Tree No.	Tree Species	Ht. (m)	Stem Dia. (mm)	Branch Spread (m)	C- Ht. (m)	Age Class	Phys. Con.	Structural Condition Other Comments	Preliminary Recommendation	Remain Contribute in years	Cat. Grade
								N-north S-south E-east W- west Physphysiological.	A- average		
1910	Elm Ulmus glabra	14	350	N6 S5 E7 W6	3	Early Mature	Dead	Poor It consists of two stems growing up together and they are becoming decayed and unstable. I suspect that death is due to infection by 'Dutch Elm' disease.	I would recommend its <u>removal</u> as the most appropriate management option.	<10	U
1911	Ash Fraxinus excelsior	12	220/ 340	N7 S3 E4 W5	6	Early Mature	Fair	Fair It is growing up forming part of the upper canopy formation. There is light Ivy cover on the main trunk.	Requires no work at the present time.	10-20	C2
1912	Ash Fraxinus excelsior	12	220/ 340	N6 S7 E5 W5	3	Mature	Fair	Fair Multiple-stemmed from base and forms part of the group canopy formation with an asymmetrical crown as a result. There is evidence of reduced vigour, most likely due to infection by 'Ash Dieback'. The Ivy cover is becoming heavy.	Cut Ivy at ground level at the present time.	10-20	C2
1913	Ash Fraxinus excelsior	11	590	N4 S6 E6 W4	2	Mature	Fair	Fair It was initially twin-stemmed from base; however one stem has broken out leaving a decaying stump and its crown asymmetrical. It is growing up within a sheltered, group environment.	Requires no work at the present time.	10-20	C2
1914	Ash Fraxinus excelsior	13	390	N6 S5 E3 W4	4	Mature	Fair	Fair It forms part of the upper canopy formation and is being sheltered by the surrounding trees. There is light Ivy cover on the main trunk.	Requires no work at the present time.	10-20	C2
1915	Ash Fraxinus excelsior	12	230/ 260	N5 S4 E6 W5	3	Early Mature	Fair	Fair It consists of two stems growing up together forming part of the middle canopy of the hedge line.	Requires no work at the present time.	10-20	C2
1916	Ash	14	420/ 220	N6	6	Mature	Fair	Fair	Cut Ivy at ground level at the	10+	C2

Tree No.	Tree Species	Ht. (m)	Stem Dia. (mm)	Branch Spread (m)	C- Ht. (m)	Age Class	Phys. Con.	Structural Condition Other Comments	Preliminary Recommendation	Remain Contribute in years	Cat. Grade
								N-north S-south E-east W- west Physphysiological.	A- average		
	Fraxinus excelsior			S5 E6 W8				It consists of two stems growing up together forming part of the one group, canopy formation. Its crown is showing signs of reduced vigour/ decline, most likely due to infection by 'Ash Dieback'. Ivy cover on the main stems is becoming heavy.	present time.		
1917	Ash Fraxinus excelsior	14	450	N4 S6 E5 W4	4	Mature	Fair	Fair It forms part of the group canopy formation and its crown is showing signs of reduced vigour, possibly due to infection by 'Ash Dieback'. There is Ivy cover on the main trunk.	Remove large pieces of deadwood. The Ivy will require management in the future.	10+	C2
1918- 1919	Elm Ulmus glabra	A 9	300	N3 S3 E3 W3	4	Early Mature	Poor/ Dead	Poor/ Dead It consists of a short group of trees and most of them are standing dead, most likely due to infection by 'Dutch Elm Disease'.	The dead stems will need to be removed as part of management. Coppice back any live stems in the hedge, as part of management.	<10	U
1920- 1921	Poplar Populus tremula	15	380	N6 S6 E5 W6	3	Early Mature	Fair	Fair They are growing in the hedge line and are suckering out on the east and west of the hedge line creating a broader area. They provide height and a diversity of species within this hedge line.	Manage the basal suckers.	20+	C2
Hedge No. 20	Privet Ligustrum sp. Hawthorn Crataegus monogyna Elder Sambucus nigra	It runs It is of a Privet a upper c to be loc out onto	in an east t mature age nd Elder, R anopy. It ha cated on the the surrou	to west dire e class in fa aspberry ar is been allo e north-side nding lands	ection a nir cond nd Gors wed to e of a we s on the	and forms ition both p se with Ash grow up ta et drainage north and	the bound ohysiologic trees rang Il with limit ditch. The south side	dary between two fields. ally and structurally. It contains clumps of Hawthorn, ging in age from seedlings to mature trees forming the ed maintenance. The main hedge line would appear e scrub species, in particular Bramble is encroaching s due to lapsed management.	Make safe large size dead/ unstable growth. Trim in encroaching hedge species.	-	C2

Tree No.	Tree Species	Ht. (m)	Stem Dia. (mm)	Branch Spread (m)	C- Ht. (m)	Age Class	Phys. Con.	Structural Condition Other Comments	Preliminary Recommendation	Remain Contribute in years	Cat. Grade
								N-north S-south E-east W- west Physphysiological.	A- average		
	Gorse Ulex europaeus Raspberry Rubus idaeus Ash Fraxinus excelsior Bramble Rubus fruticosus Dogrose Rosa canina										
		The foll	owing tree	es are locations	ted with	hin this be	dae				
		The ass	essment w	orks from e	ast to v	vest.	uye.				

Tree No.	Tree Species	Ht. (m)	Stem Dia. (mm)	Branch Spread (m)	C- Ht. (m)	Age Class	Phys. Con.	Structural Condition Other Comments	Preliminary Recommendation	Remain Contribute in years	Cat. Grade
								N-north S-south E-east W- west Physphysiological.	A- average		
1922	Ash Fraxinus excelsior	11	110/ 230/ 260	N6 S6 E5 W4	3	Early Mature	Fair/ Poor	Fair Multiple-stemmed from base due to being cut/ coppiced back into the hedge in the past. Its crown is showing signs of reduced vigour with decline/ dieback evident throughout, most likely due to infection by 'Ash Dieback'. It is beginning to be suppressed by Ivy.	Cut Ivy at ground level. Monitor its condition on an annual basis.	10+	C2
1923	Ash Fraxinus excelsior	8	210	N2 S3 E4 W3	3	Semi Mature	Fair/ Poor	Fair It is beginning to establish above the height of the hedge with evidence of reduced vigour/ decline within its crown due to infection by 'Ash Dieback'. There is Ivy cover on the main trunk.	Tidy up the undergrowth.	10+	C2
1924	Ash Fraxinus excelsior	13	340	N7 S5 E5 W7	4	Mature	Poor	Fair/ Poor Multiples-stemmed from base and is protruding above the height of the hedge. It is in declining health with a lot of dieback evident throughout its crown. It is beginning to be suppressed by Ivy and has limited future potential.	I would recommend its <u>removal</u> as the most appropriate management option.	<10	U
Tree Line No. 6	Ash Fraxinus excelsior Sycamore Acer pseudoplatanus	A 13	A 300	A N4 S4 E4 W4	3	Mature	Fair	Fair It is located at the western end of hedge No. 19. It consists of predominately Ash with some Sycamore mixed throughout. It is growing on the adjoining landside of the open drainage ditch and is taken to be located outside the control of this site area. The open wet ditch would have cordoned off / restricted its root growth into the site area. As a tree line, they are of some prominence within the treescape of this immediate area. A lot of these trees are growing	Make safe dead/ unstable growth. Cut Ivy at ground level in order to improve the wind sail of their crowns where it is heavy.	10-20	C2

Tree	Tree	Ht.	Stem	Branch	C-	Age	Phys.	Structural Condition	Preliminary	Remain	Cat.
No.	Species	(m)	Dia.	Spread	Ht.	Class	Con.	Other Comments	Recommendation	Contribute	Grade
			(mm)	(m)	(m)					in years	
								N-north S-south E-east W-west	A- average		
								Physphysiological.			
								within groups and are dependent on one another for			
								support/ shelter. Some trees are being to be			
								suppressed by Ivy. The trees located next to the			
								power lines at the eastern end have been cut back			
								in the past.			
		The fol	lowing tree	es are locat	ted on	the site si		-			
		Tree Li	ne No.6.								
1925	Ash	12	290	N4	2	Early	Cut lvy at ground level at the	10-20	C2		
	Fraxinus			S4		Mature		It is growing on the site side of the drainage ditch	present time.		
	excelsior			E4				with the trees to the north within Tree Line No.6 and			
				W4				forms part of the bulking. There are secondary			
							stems developing from its base with heavy lvy cover				
								on the main trunk.			
1926	Ash	12	330	N2	2	Early	Fair	Fair	Requires no work at the	10-20	C2
	Fraxinus			S4		Mature		It forms part of the upper canopy of Tree Line No.6	present time.		
	excelsior			E4				and is self-seeded on the bank of the ditch on the			
				W3				site side. Ivy cover on the main trunk is beginning to			
								extend up into its crown.			
1927	Ash	14	340	N3	6	Early	Fair	Fair	Requires no work at the	10-20	C2
	Fraxinus			S4		Mature		Self-seeded into this area and is growing on the site	present time.		
	excelsior			E5				side of the drainage ditch and is growing up with the			
				W4				trees to its north, within Tree Line No. 6. It forms			
								part of the upper canopy formation.			
Hedge	Hawthorn	It exten	ds from he	edge No.20	in a n	orth-south	direction	on the western boundary of the site area	It would benefit from trimming	-	C2
No. 21	Crataegus	borderi	ing with the	e 'Fairy Ho	use' R	oad.			on the field side in order to		
	monogyna	It is of a	i mature ag	e class in fa	air cond	ition both p	physiologic	cally and structurally. The main hedge species consist	contain its width and structure.		
	Privet	of Hawt	horn, Privet	t, Bramble a	and Dog	grose with	ycamore trees which have been cut / coppiced back				
	Ligustrum sp.	into the	hedge in th	ne past. Six	individ	ual trees h	ave been	allowed to establish above the height of this hedge. It			
	Bramble	has bee	en trimmed a	and cut into	a low l	hedge, in p	articular fr	om the roadside which has helped to maintain its			

Tree No.	Tree Species	Ht. (m)	Stem Dia. (mm)	Branch Spread (m)	C- Ht. (m)	Age Class	Phys. Con.	Structural Condition Other Comments	Preliminary Recommendation	Remain Contribute in years	Cat. Grade
								N-north S-south E-east W- west Physphysiological.	A- average		
	Rubus fruticosus Dogrose Rosa canina Ash Fraxinus excelsior Sycamore Acer pseudoplatanus	stock pr broad h running clearand	lowing tree	with Bramb ing wire has re line of th utility line.	ble and s been his hedg	other spec erected wit ge and the	ties being a thin this he trees within the trees within t	allowed to encroach out on the field side creating a dge line in the past. There is an overhead utility line in have been pruned back in order to maintain			
1928	Ash Fraxinus excelsior	11	280	N5 S4 E2 W2	4	Early Mature	Fair/ Poor	Fair/ Poor It is located on the roadside of the boundary hedge and has suffered bark wounding on the lower trunk during the hedge cutting works with decay developing into these wounds. Its crown	Monitor its condition on an an annual basis.	10+	C1
								development/ structure has been affected due to cutting back from the overhead utility lines on the east side. There is 'Bacteria Canker' of Ash evident within its crown with reduced vigour as a result.			

Tree No.	Tree Species	Ht. (m)	Stem Dia. (mm)	Branch Spread (m)	C- Ht. (m)	Age Class	Phys. Con.	Structural Condition Other Comments	Preliminary Recommendation	Remain Contribute in years	Cat. Grade
								N-north S-south E-east W- west Physphysiological.	A- average		
1929	Ash Fraxinus excelsior	11	290	N6 S3 E3 W4	4	Early Mature	Fair	Fair It is located more centrally within the hedge and has received heavy cutting back on the east side in order to maintain clearance with the overhead utility lines and this has impacted on its crown structure. It is showing signs of reduced vigour within its crown. There is Ivy cover on the main trunk.	Monitor its condition on an an annual basis.	10-20	C1
1930	Ash Fraxinus excelsior	10	320	N5 S3 E4 W3	4	Early Mature	Fair	Fair It is located on the roadside of the hedge and has received cutting back on the east side to maintain clearance with the overhead utility lines and this has impacted on its crowns development/ structure. Its crown is showing signs of reduced vigour.	Monitor its condition on an an annual basis.	10-20	C1
1931	Ash Fraxinus excelsior	11	310	N6 S4 E3 W3	4	Early Mature	Fair	Fair/ Poor It is located on the edge of the hedge and has been heavily cut back on the east side due to the overhead utility lines and this has impacted on its crown development/ structure. Its crown is showing signs of reduced vigour.	Monitor its condition on an an annual basis.	10-20	C1
1932	Ash Fraxinus excelsior	10	280	N5 S4 E3 W4	3	Early Mature	Fair	Fair It has been cut back on the east side due to the overhead utility line. It is growing within the hedge line with light Ivy cover on the main trunk. The lower branch on the roadside has broken / hanging. It is showing signs of reduced vigour within its crown.	Remove the broken branch at the present time. It will require further pruning from time to time in order to maintain clearance with the road and overhead utility lines.	10-20	C1

Tree	Tree	Ht.	Stem	Branch	C-	Age	Phys.	Structural Condition	Preliminary	Remain	Cat.
No.	Species	(m)	Dia.	Spread	Ht.	Class	Con.	Other Comments	Recommendation	Contribute	Grade
			(mm)	(m)	(m)					in years	
								N-north S-south E-east W- west Physphysiological.	A- average		
1933	Ash Fraxinus excelsior	11	380	N4 S3 E4 W5	3	Early Mature	Fair	Fair It is growing within the hedge line and has received pruning due to the overhead utility lines on the east side and this has impacted on its crown structure. There is light Ivy cover on the main trunk. The lower branches on the roadside have also been cut off in the past in order to raise up its crown.	It will require further pruning to maintain clearance with the road and the overhead utility lines.	10-20	C1
Notes:											
