



Professional  
Consulting Tree Service



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## Tree Survey Report

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### Prepared for:

Cumnor Construction

### Proposed site:

Coolcarron, Fermoy, Co Cork

### Prepared by:

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## Executive Summary

Arbor-Care Ltd (Professional Consulting Tree Service) was retained by Cumnor Construction undertake firstly, a Tree Survey, tree constraints plan outlining existing trees on or adjacent to the proposed development, this survey is undertaken without prejudice to the proposed development. The surveyed trees contained within this report are located within the parameters of the proposed site. The proposed site consists of multiple green fields. There are few, if any, internal trees within the site. There are two significant hedgerows on the site. The site is bounded to the east by a stream and a mixed deciduous woodland containing Alders, Birch and Spruce. The woodland is just outside the site. There is a considerable stream/wet area between the proposed development site and the woodland so there will be no impact on the woodland. The survey commenced at the western boundary.

The objective of the tree survey was to identify the areas that contained trees or hedgerows of quality, and to ensure where possible that these areas would be retained.

The Tree Survey and inventory report is based on the British standard *BS 5837:2012 Trees in relation to design, demolition and construction. Recommendations*, this standard gives recommendations and guidance on the principles to be applied to achieve a satisfactory juxtaposition of trees, including shrubs, hedges and hedgerows, with structures. It sets out to assist those concerned with trees in relation to construction to form balanced judgements. The survey commenced on the 5<sup>th</sup> February 2020.

This Tree Survey report will be accompanied by an inventory of trees/hedgerows on site and tree constraints plan. A separate Arboricultural Impact Assessment and a tree protection plan will also be prepared for the site identifying trees and hedgerow impacted on by the proposed development once the proposed design is known.

## **Proposed development**

The tree survey has been carried without prejudice of the proposed development.

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### **1.0 Assignment**

1. To undertake a visual tree/hedgerow survey to assess the tree's condition(s) and provide an inventory of trees.
2. Provide a table outlining the schedule of trees on site and provide recommendations for their preservation and/or removal.
3. Present a written report on the inspection of the trees.

#### **1.1 Limits of the Assignment**

Unless otherwise stated tree inspections have been undertaken from ground level and using non-invasive techniques only. Comments on the condition and safety of any tree relate to the condition of that tree at the time of the survey. It should be recognised that tree condition is subject to change due to, for example the effects of disease, wind or nearby development works. Changes in land use are also significant in respect of risk assessment. Trees should therefore be inspected at intervals relative to identified site risks

## 2.0 Methodology Employed

An initial tree survey and visual condition assessment was on the 5<sup>th</sup> February 2020. The purpose of this report and in accordance with *BS 5837: 2012 Trees in relation to design, demolition and construction. Recommendations* only trees with diameters of 75mm or greater were surveyed, Also in accordance with section 4.4.2.3 of the British standard document where trees formed obvious groups these were assessed and recorded as groups. The survey commenced along the northern boundary and continued in an easterly direction

*Section 4.4.2.3 of BS 5837: 2012 states:*

*Trees growing as groups or woodland should be identified and assessed as such where the arboriculturist determines that this is appropriate. However, an assessment of individuals within any group should still be undertaken if there is a need to differentiate between them, e.g. in order to highlight significant variation in attributes (including physiological or structural condition).*

*NOTE: The term “group” 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 of each of the three subcategories.*

The survey concentrated primarily on the significant trees/hedgerows located within and adjacent to the proposed development area. The objective of this survey was to gather information regarding the trees location on the proposed development site and the impact the proposed development may have on the trees. **Please refer to appendix 1 for the tree inventory.**

Significant trees can be equated as those trees whose visual importance to the surrounding area are sufficient to justify special efforts to protect/preserve and whose loss would have an irremediable adverse impact on the local environment. Significance can also be placed depending on the trees age, another variable to imply significance can be the aesthetic merit of the tree based on its unusual size, intrinsic physical features or outstanding appearance or occurring in a unique location or context, and thus provides a special contribution as a landmark or landscape feature.

All above parts of the trees were visually examined. Tree diameters (DBH) were estimated at 1.5 meter above grade as per standard arboricultural practice. Tree height was measured with the use of a clinometer (Where practical). A generalised system was employed to describe the overall health of the trees. The system uses a five tier rating scale with the following descriptors:

*Specimen condition 5-tier rating system*

1. Very poor-1-20%
2. Poor- 21-40%
3. Fair- 41-60%
4. Good- 61-80%
5. Very good 81-100%

### 3.0 Trees surveyed

The survey commenced on the 5<sup>th</sup> February 2020. A total of 48 trees were surveyed. The impact of the development on the trees surveyed will be assessed in the Arboricultural Impact Assessment.

3.1 A breakdown of the Tree Categories on site as per BS 5837 2012 is set out in the table below:

Category	Quantity
A-Tree of high quality	1
B-trees of good quality	45
C (Low quality or trees less than 75mm diameter)	2
U (remove due to poor condition)	0
Total Trees surveyed	48

#### 4.0 Conclusion

A complete tree inventory has been provided in appendix 1 outlining the schedule of trees and hedgerows on site in accordance with *BS 5837: 2012 Trees in relation to design, demolition and construction. Recommendations*. there were no internal trees all the trees of quality were contained within the hedgerows.

## Tree Categorization.

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### Tree Categorization.

#### Category U

This category signifies those trees that are in such a condition that any existing value would be lost within 10 years and which should, in the current context, be removed for reasons of sound arboricultural management.

#### Category A.

Those trees of a high quality and value, in such a condition as to be able to make a substantial contribution. ( A minimum of 40 years is suggested)

#### Category B

This category signifies those trees of a moderate value and in such a condition as to be able to make a substantial contribution (A minimum life expectancy of 20 yrs is suggested)

#### Category C

This category signifies those trees of a low quality and value that are currently in an adequate condition to remain until new planting could be established (A minimum life expectancy of 10yrs is suggested), or young trees with a stem diameter below 150mm. 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.

The above categories have sub-categories attached to the tree categorisation.

Sub-category 1- Mainly Arboricultural Values eg-A1

Sub-category 2- Mainly Landscape Values- B2

Sub-category 3- Mainly cultural values, including conservation C2



## Appendix 1 – Tree Inventory

### Tree Inventory Legend

*Tree Dimensions* - All dimensions are in meters.

*Ht* - Tree Height

*Crown clearance* - Lowest canopy height (distance from ground level to the first live branch)

*Crown spread* - Tree Canopy Spread measured by radii at north, east, south and west

*Dia.* - Stem diameter at approx. 1.50m from ground level.

*RPA* - Root Protection Area, as a radius measured from the tree's stem centre.

#### Physiological Condition

*Good* - A specimen of generally good form and health

*Fair* - A specimen with defects or ill health that can be either rectified or managed typically allowing for retention

*Poor* - A specimen whom through defect, disease attack or reduced vigour has a limited longevity or may be un-safe

*Dead* - A dead tree

*Age Class - 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 approximately 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.

*Structural Condition* - Information on structural form, defects, damage, injury or disease supported by the tree

*PMR (Preliminary Management Recommendations)* – refers to Arboricultural actions or works considered necessary at the time of the inspection and relating to the existing site context and tree condition. *Note is also made of works considered as urgent.*

Species Common name is given; botanical name is also given upon its first entry, in Italics.



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## Appendix 1

Fermoy, Co. Cork

Tree #	Species Botanical Name	Age class	Size (mm)	Height (M)	Crown Sp. (M)	Crown Cl.(M)	Condition	Structural/Physiological Observations	Impact of the development	PMR	Category	R.P.A. Meters
4130 x 5	<i>Alnus glutinosa</i> Alder	M	300	20	N=3 S=3 E=3 W=3	2	Good	Represents 5 mature Alder displaying over all good condition. They are located in a wetland area and are appropriate for that site.	Unknown	Retain	B2	4.0m
4131 x 2	<i>Fraxinus excelsior</i> Ash	M	300	12	N=3 S=3 E=3 W=3	2	Good	Represents 2 mature Ash displaying over all good condition. These trees are located within a low-lying hedgerow. They are the only two trees of any significance within the hedgerow, there are some other Scrub and Hawthorn contained within the hedgerow but they are of very little significance.	Unknown	Retain	B2	4.0m
Hedgerow 1					N= S= E= W=			<b>Note</b> - Hedgerow 1 is the main hedgerow of significance within the site. Due to inaccessibility it was physically impossible to tag the trees contained within so they will be noted as T1, T2 etc. and the accessible trees will be tagged. Within this hedgerow there is also some low-lying Briars and Hawthorn. The whole hedgerow is of good quality.				
T1	Alder	M	300	16	N=3 S=3 E=3 W=3	3	Good	A mature multi-stemmed Alder displaying over all good condition	Unknown	Retain	B2	4.0m
T2	Alder	M	300	16	N=3 S=3 E=3 W=3	3	Good	A mature multi-stemmed Alder displaying over all good condition	Unknown	Retain	B2	4.0m



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## Appendix 1

## Fermoy, Co. Cork

Tree #	Species Botanical Name	Age class	Size (mm)	Height (M)	Crown Sp. (M)	Crown Cl.(M)	Condition	Structural/Physiological Observations	Impact of the development	PMR	Category	R.P.A. Meters
T3	Alder	M	300	16	N=3 S=3 E=3 W=3	3	Good	A mature multi-stemmed Alder displaying over all good condition	Unknown	Retain	B2	4.0m
T4	Alder	M	300	14	N=3 S=3 E=2 W=4	2	Good	A mature multi-stemmed Alder displaying over all good condition	Unknown	Retain	B2	4.0m
4132	Ash	M	350	20	N=5 S=5 E=4 W=4	3	Good	A mature multi-stemmed Ash displaying over all good condition	Unknown	Retain	B2	4.5m
T5	Alder	M	350	20	N=6 S=6 E=4 W=4	2	Good	A mature multi-stemmed Alder displaying over all good condition	Unknown	Retain	B2	4.5m
4133	Alder	M	220	12	N=2 S=2 E=2 W=2	1	Good	Represents a cluster of mature Alder displaying over all good condition	Unknown	Retain	B2	3.2m



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Professional Member

## Appendix 1

## Fermoy, Co. Cork

Tree #	Species Botanical Name	Age class	Size (mm)	Height (M)	Crown Sp. (M)	Crown Cl.(M)	Condition	Structural/Physiological Observations	Impact of the development	PMR	Category	R.P.A. Meters
4134	Ash	M	420	18	N=3 S=3 E=3 W=3	3	Good	A mature Ash displaying over all good condition	Unknown	Retain	B2	5.2m
4135	Ash	M	650	20	N=5 S=5 E=5 W=5	3	Good	A large mature Ash displaying over all good condition	Unknown	Retain	B2	7.5m
4136	Alder	M	500	15	N=2 S=2 E=2 W=2	4	Poor	A large mature Alder displaying over all poor condition. This tree is dead and should be considered for removal. But if it doesn't impact on the development it could be left as a standing habitat.	Unknown	Consider for Removal	C2	6.0m
4137	Ash	M	500	16	N=3 S=3 E=5 W=5	2	Good	A large mature Ash displaying over all good condition	Unknown	Retain	B2	6.0m
4138	Ash	M	600	24	N=4 S=4 E=2 W=4	3	Good	A large mature Ash displaying over all good condition	Unknown	Retain	B2	7.0m

## Appendix 1

## Fermoy, Co. Cork

Tree #	Species Botanical Name	Age class	Size (mm)	Height (M)	Crown Sp. (M)	Crown Cl.(M)	Condition	Structural/Physiological Observations	Impact of the development	PMR	Category	R.P.A. Meters
4139	<i>Fagus</i> Beech	M	620	22	N=5 S=5 E=5 W=5	2	Good	A large mature Beech displaying over all good condition	Unknown	Retain	A2	7.2m
4140	Alder	M	380	18	N=3 S=3 E=3 W=3		Good	A large mature Alder displaying over all good condition	Unknown	Retain	B2	4.8m
4141	Alder	M	550	16	N=3 S=3 E=3 W=3	3	Good	A large mature co-dominant Alder displaying over all good condition	Unknown	Retain	B2	6.5m
4142	Alder	M	320	12	N=2 S=2 E=3 W=3	1	Good	A mature Alder displaying over all good condition	Unknown	Retain	B2	4.2m
4143	Ash	M	400	16	N=3 S=3 E=3 W=3	3	Good	A mature Ash displaying over all good condition	Unknown	Retain	B2	5.0m

## Appendix 1

## Fermoy, Co. Cork

Tree #	Species Botanical Name	Age class	Size (mm)	Height (M)	Crown Sp. (M)	Crown Cl.(M)	Condition	Structural/Physiological Observations	Impact of the development	PMR	Category	R.P.A. Meters
4144	Alder	M	320	14	N=2 S=2 E=2 W=2	3	Good	A mature Alder displaying over all good condition	Unknown	Retain	B2	4.2m
4145	Alder	M	320	14	N=2 S=2 E=2 W=2	3	Good	A mature Alder displaying over all good condition	Unknown	Retain	B2	4.2m
4146	Alder	M	320	14	N=2 S=2 E=2 W=2	3	Good	A mature Alder displaying over all good condition	Unknown	Retain	B2	4.2m
4147	Alder	M	320	14	N=2 S=2 E=2 W=2	3	Good	A mature Alder displaying over all good condition	Unknown	Retain	B2	4.2m
4148	Alder	M	320	14	N=2 S=2 E=2 W=2	3	Good	A mature Alder displaying over all good condition	Unknown	Retain	B2	4.2m

## Appendix 1

## Fermoy, Co. Cork

Tree #	Species Botanical Name	Age class	Size (mm)	Height (M)	Crown Sp. (M)	Crown Cl.(M)	Condition	Structural/Physiological Observations	Impact of the development	PMR	Category	R.P.A. Meters
4149	Alder	M	500	14	N=4 S=4 E=4 W=4	2	Fair	A large mature multi-stemmed Alder displaying over all fair condition. This tree has suffered some basal damage	Unknown	Retain	C2	6.0m
4150	Alder	M	500	18	N=3 S=3 E=3 W=3	2	Good	A mature Alder displaying over all good condition	Unknown	Retain	B2	6.0m
4151	Alder	M	300	12	N=3 S=3 E=3 W=3	2	Good	A mature multi-stemmed Alder displaying over all good condition	Unknown	Retain	B2	4.0m
4152	Alder	M	500	16	N=5 S=5 E=5 W=5	3	Good	A large mature multi-stemmed Alder displaying over all good condition	Unknown	Retain	B2	6.0m
4153 x 5	Ash	M	300	16	N=3 S=3 E=3 W=3	3	Good	Represents 5 mature Ash displaying over all good condition. These trees are located along the western boundary	Unknown	Retain	B2	4.0m

## Appendix 1

## Fermoy, Co. Cork

Tree #	Species Botanical Name	Age class	Size (mm)	Height (M)	Crown Sp. (M)	Crown Cl.(M)	Condition	Structural/Physiological Observations	Impact of the development	PMR	Category	R.P.A. Meters
4154 – 4155 x 6	Ash	M	500	20	N=4 S=4 E=4 W=4	3	Good	Represents 6 large mature Ash displaying over all good condition. These trees make up the southern boundary of the site.	Unknown	Retain	B2	6.0m
4156	<i>Tilia</i> Lime	M	420	16	N=2 S=2 E=2 W=2	2	Good	A mature Lime displaying over all good condition. This tree is located on the boundary of the site up near the old weighbridge	Unknown	Retain	B2	5.2m
4157 x 3	Beech	M	400	18	N=4 S=4 E=4 W=4	3	Good	Represents 3 mature Beech displaying over all good condition. These trees are located on the boundary of the site up near the old weighbridge	Unknown	Retain	B2	5.0m





## Appendix 2-Tree Protection Plan



This report was prepared by:

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*Yours in Conservation.*

*Michael Garry.*

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