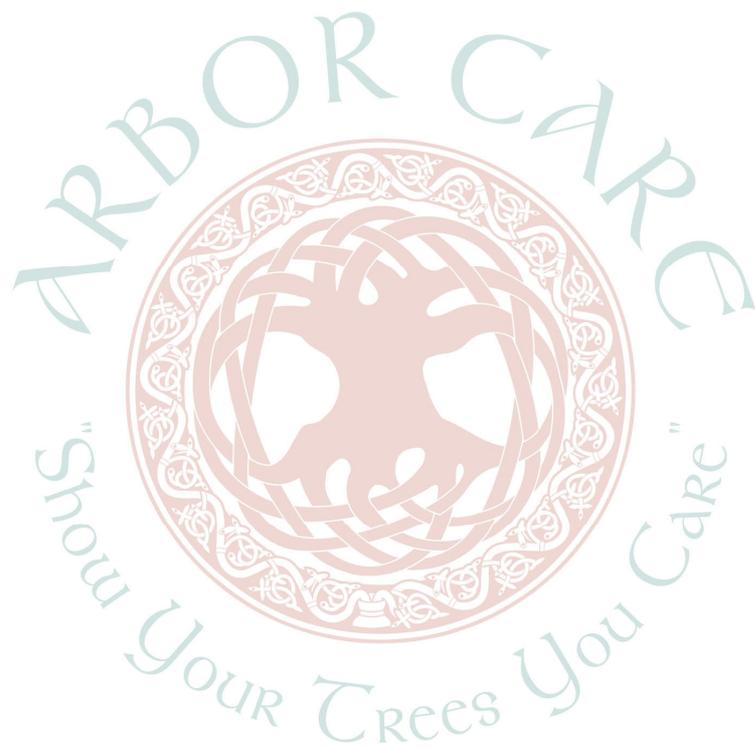




Professional  
Consulting Tree Service



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**A Tree Survey and Plan of Preservation,  
For,  
Suir Island,  
Clonmel,  
Co. Tipperary.**

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**Prepared for,**

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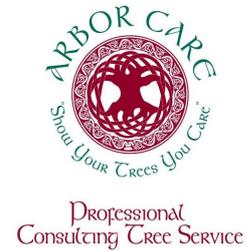
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## **1.0 Executive Summary.**

Arbor-Care Ltd was retained by Kenneth Hennessy architects, on behalf of Tipperary County Council to undertake a tree survey and plan of preservation, for the trees contained within Suir Island. Suir Island is located in the centre of Clonmel and is within easy walking distance of Clonmel Town Centre (O'Connell Street). The Island is surrounded by the River Suir on all sides and is accessible from the town centre via the Old Bridge to the north west of the island. The Island, from its mid-section to eastern end is largely undeveloped and overgrown. Existing development at the island's western end comprises an apartment complex, car-park, commercial units, commercial waste collector company, derelict mill building and an area of housing (largely vacant/derelict) on its western portion. The majority of the Island is in the ownership of Tipperary County Council, with some areas in private ownership. The island has been unmanaged for some years and as a result is quite overgrown in certain sections. In total a 115 trees were tagged and assessed. There are many fine examples of high amenity trees especially along the town side of the island where there is a mix of species such as horse chestnut, lime, sycamore and beech these due to their size and prominent location are of high amenity value. There are outstanding examples of very large and mature aspen trees toward the eastern end of the island. There are large areas that are in accessible due to the almost 2m high brambles, there is significant sycamore regeneration within the island.

The surveyed trees contained within this report are located within the boundaries of the Island. The following report is a based on a tree survey independent of any development plans. It sets out to record the trees onsite and to describe their conditions and appropriateness to the site and to categorise them in accordance with *BS 5837:2012 Trees in relation to construction*. A separate arboricultural assessment report will be undertaken to determine the impact the proposed development will have on the existing trees on the site.



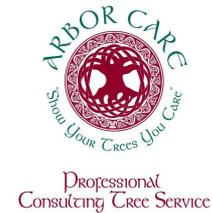
## **2.0 Assignment.**

As outlined in the tender document we agreed that my assignment was to:

1. To undertake a visual tree survey to, identify any potential impact the new development would have on the trees and visa versa.
2. To provide recommendations for their preservation and or removal.
3. Present a written report on the inspection of the trees
4. To provide a tree constraints plan highlighting which trees are to be removed, retained.

## **2.1 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 relates 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 and condition assessment. Trees should therefore be inspected at 12 month intervals.



### 3.0 Methodology.

The tree survey and visual condition assessment was undertaken between the 22<sup>nd</sup> and 26<sup>th</sup> of September 2017. In accordance with BS 5837 2012 only mature trees with diameters of 75mm were surveyed. Also in accordance with point 4.4.2.3 of the British standard document where trees formed obvious groups these were assessed and recorded as groups.

#### 4.4.2.3

*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 commenced at the north west section of the Island (the car park area) and continued east to the apex of the island. Then continued east finishing at the soil heap.

The survey concentrated primarily on the **significant trees** within the area that may be impacted on by the proposed development.

Significant trees can be equated as those trees whose visual importance to the surrounding area is 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.

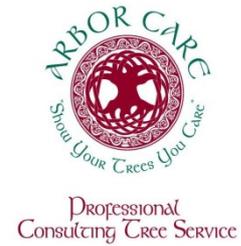
All above parts of the trees were visually examined. Tree diameters (DBH) were estimated at 1.5 meter above grade as per standard arboricultural practice. Tree height was measured with the use of a clinometer (Where practical). A generalised system was employed to describe the overall health of the trees.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

Note:

Specimen condition is based on a 5-tier rating system:

- Very poor-1-20%
- Poor- 21-40%
- Fair- 41-60%
- Good- 61-80%
- Very good 81-100%

Where 100% would be a perfect species phenotype.



#### 4.0 Tree Preservation

Prior to any construction or demolition works on this site all trees destined for retention need to be protected by the use of protective barriers and or ground protection, fit for the purpose of ensuring the successful long-term preservation of the trees. In order for the retained trees to be adequately protected on the site a construction exclusion zone needs to be identified. This zone is calculated based on the root protection area (RPA), which is the minimum area in m<sup>2</sup> which should be left undisturbed around each retained tree. The RPA should be calculated as an area equivalent to a circle with a radius 12 times the stem diameter for a single stem tree and 10 times basal diameter measured immediately above the root flare for trees with more than one stem arising below 1.5m above ground level.

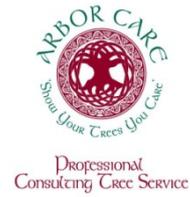
Number of Stems	Calculation
Single Stem Tree	$\text{RPA (m}^2\text{)} = \frac{\{\text{stem diameter (mm) @ 1.5m} \times 12\}^2 \times 3.142}{1000}$
Tree with more than one Stem arising below 1.5m above Ground level	$\text{RPA (m}^2\text{)} = \frac{\{\text{Basal Dia. (mm)} \times 10\}^2 \times 3.142}{1000}$

Note

The Calculated RPA should be capped to 707m<sup>2</sup> e.g. which is the equivalent to a circle with a radius of 15m or a square with approximately 26 m sides.

#### Maintenance

All trees that are destined for removal shall be removed prior to any construction or demolition works on this site. Any tree remedial works that are required shall also be undertaken prior to any construction or demolition activity on the site. All the above shall be carried out by qualified and insured tree surgeons.



## **5.2 Protective Barriers and Ground Protection.**

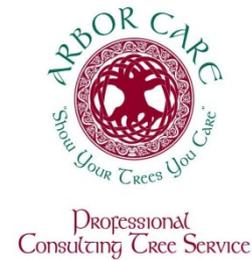
Trees that are destined to be retained must be protected by barriers and or ground protection prior to any materials or machinery being brought on site and prior to any development, demolition or soil stripping takes place. Areas that are designated for new plantings should be similarly protected. Barriers should be fit for the purpose of excluding construction activity. In most cases barriers should consist of a scaffold framework (Refer to Appendix 1) comprising a vertical and horizontal framework, well braced to resist impacts. To ensure the protective barriers are respected, clear concise signage must be affixed to the barrier in an unrestricted easily viewed location. The signage must state the following;

- No construction activity is to take place within the R.P.A. (unless pre-agreed the arborist)
- No materials of any kind are to be stored within the R.P.A.
- No "Spilling out" of materials shall take place within the R.P.A.
- No fires are to be lit within the R.P.A.

The protective barriers shall remain in an undisturbed condition and only removed on completion of all construction activity finished grading and sodding. Any breach of the protective fence shall be reported to the consulting arborist.

### **Ground Protection**

Although works within the RPA are not recommended should essential works be required within the RPA. The installation of ground protection in the form of a single thickness of scaffold boards on top of a compressible layer laid onto a geotextile may be acceptable. For wheeled or tracked movements within the R.P.A. the ground protection should be designed by an engineer to accommodate the likely loading. Any works within the RPA must be undertaken with prior consultation with the arborist.



## **5.0 Predicted Impact of The Proposed Development.**

### **(Arboricultural Impact Assessment) (A.I.A.)**

#### ***Impact of the proposed development on the trees.***

It must be assumed that on any development site trees may be at risk from damage caused from a number of construction operations, these risks can include, mechanical damage to the crown or main stems of the tree from the use of heavy plant machinery on site, compaction of the soil from the storage of materials and or the use of plant machinery around the trees critical rooting zone or changes in soil levels which could either asphyxiate or expose the roots. The afore mentioned risks can be mitigated by adhering to the guidelines set out in *Bs: 5837 2012* which contains clear and concise current recommendations for a best practice approach to the assessment, retention and protection of trees on development sites. The afore mentioned proposed development has followed this guidance by,

- Seeking arboricultural advice to inform the layout and design stages of the proposed development
- Respecting the constraints posed to the development of the site by high or moderate quality trees
- Continuing to take advice on all aspects of the proposal that may impact upon the trees

The above assumes the R.P.A.'s are fenced and maintained prior to ground clearance and the sanctity of same is observed for the duration of all construction works. These measures and proposed new planting and landscaping will increase, augment and enhance the current arboreal footprint at this site.

The proposed development shall be undertaken in the most environmentally sensitive way, however there shall be incidences where trees will have to be removed in order to accommodate the development, this shall be necessary for progress and as not to place excessive pressure on those trees deemed for retention and lead to subsequent demands for their removal.

The main threat the trees face from development activities is soil compaction from both vehicular and pedestrian activities within the critical rooting zones of the trees and root severance. Soil compaction can be detrimental to the long term health of trees as it deprives the roots of oxygen and moisture. It is essential that soil compaction is avoided or at the very least kept to a minimum i.e pedestrian traffic only within the RPA of the trees and works carried out where possible during dry conditions. Should vehicular traffic be required within the rooting zone of the trees, and in consultation with the arborist a temporary surface must be installed to minimise the compaction levels. The severance of structural roots can destabilise trees increasing their risk of windthrow this must be avoided where possible. It is essential that during the course of works root severance is kept to a minimum and that any root over 250mm is pruned with the use of a chainsaw to ensure minimal damage and to prevent decay spreading into the roots.

The arboricultural impact on the above is not known at this stage until final design is agreed. However from discussions with the architects woodland paths and two pedestrian bridges are the main source of development. The pathways through the island will be constructed with compacted earth and or loose gravel either method will involve little if any excavations works thus reducing the soil compaction and or root severance. Where the path meets tree root greater than 200mm it is proposed to continue the path by means of a boardwalk which will involve no excavation therefore no root disturbance.

There are two pedestrian bridges proposed. The largest one of these will link the island with old quay. This area chosen by the architects is sensitive to the trees on the island and no trees will require removal to accommodate the bridge. The second bridge will link the island with town park, this may involve the removal of two semi-mature sycamores (2225-2226), however given the abundance of sycamore on the island the loss of two semi-mature trees will have no impact on the overall amenity of the island.

There is scope to clear the overgrowth of bramble and sycamore regeneration. Also a selective thinning programme could be incorporated to selectively remove certain trees to allow for more openings. In general suppressed, weakened trees can be removed.

Overall there are many examples of fine trees within the island and the island as a whole would have great potential as a 'Green Oasis' within the town



**6.1 Arboricultural Method Statement. (A.M.S.) Please review tree constraints plan.**

A)

Trees and that are suitable for retention shall be clearly identified by the use of a numbered aluminium tag affixed to the main stem they will also be clearly marked on a plan with a continuous outline and colour coded as applicable.

B)

Trees selected for removal shall be clearly identified by the use of a numbered aluminium tag affixed to the main stem, they will also be marked on a plan with a dark red dashed outline.

C)

The precise location for the erection of protective barriers and any other relevant physical protection measures including ground protection to protect the RPA shall be marked as a construction exclusion zone on the plan.



## **Comments/Terminology.**

**Tree Categorization. (Reference to Table 1-Cascade chart for tree quality assessment) of Bs. 5837 2012 should be reviewed for further information.**

### ***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.



## Sub-Categories

### 1. Mainly Arboricultural values

Trees which are particularly good examples of their species, especially if rare or unusual, or essential components of groups.

### 2. Mainly landscape values

Trees that might be included in the high category, but are down graded because of impaired condition (e.g. presence of remediable defects including unsympathetic past management and minor storm damage)

### 3. Mainly cultural values, including conservation

Trees, group or woodlands of significant conservation, historical, commemorative or other value (e.g. veteran trees)

#### Terminology.

Deadwood-Wood/tissue that has become dysfunctional,

Minor deadwood-dead wood with a diameter less than 100mm

Moderate deadwood-deadwood with a diameter between 100-200mm

Major Deadwood-deadwood with a diameter greater than 200mm

#### Age Class:

**Young: (Y)** A tree, which has been planted in the last 10 years.

**Semi –mature (SM)** A tree that is less than 1/3 the expected height of the species in question.

**Early mature: (EM)** A tree, which is approximately 2/3's the expected height of the species in question.

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

**Over mature: (OM)** A tree at the end of its life cycle and the crown is starting to break up and decrease in size.

**Table 1. Tree Inventory for Suir Island.**

Tree # <sup>1</sup>	Species	Age class	Size <sup>2</sup> (mm)	Height (M)	Crown Sp.(M)	Crown Cl.(M)	Condition <sup>3</sup>	Structural/Physiological Observations	Remedial Recommendation	Category <sup>4</sup>	RPA <sup>6</sup> Radius m
T2201 x 3	<i>Acer pseudoplatanus</i> Sycamore	M	500	16	N=4 S=4 E=4 W=4	2	Good	Represents three mature sycamores located within the old mill. High amenity value due to their location	Retain- no works required	B2	6m
T2202	<i>Tilia x europea</i> Common Lime	OM	1200	26	N=7 S=7 E=7 W=7	4	Good	A large OM lime displaying a good overall condition. A fantastic specimen of high amenity value	Retain- no works required	A2	12m
T2203	<i>Taxus baccata</i> 'Fastigiata' Irish Yew	SM	250	6	N=2 S=2 E=2 W=2	1	Good	A semi-mature Yew displaying a good overall condition.	Retain- no works required	C2	3.5m
T2204	<i>Quercus ilex</i> Holm Oak	OM	1000	14	N=5 S=5 E=6 W=6	1	Fair	An overmature Oak, displaying a fair overall condition it has suffered basal damage in the past, however recent tree surgery works have lessened the risk of failure occurring.	Retain -no works required	C2	12m
T2205	<i>Chamaecyparis lawsoniana</i> Lawson cypress	M	400	12	N=2 S=2 E=2 W=2	1	Fair-poor	A mature cypress has suffered basal damage and is leaning severely. A tree of low ecological value	Remove	U	

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Tree # <sup>1</sup>	Species	Age class	Size <sup>2</sup> (mm)	Height (M)	Crown Sp.(M)	Crown Cl.(M)	Condition <sup>3</sup>	Structural/Physiological Observations	Remedial Recommendation	Category <sup>4</sup>	RPA <sup>6</sup> Radius m
T2206	Irish Yew	SM	250	6	N=2 S=2 E=2 W=2	1	Good	A semi-mature Yew displaying a good overall condition.	Retain- no works required	C2	3.5m
T2207	<i>Fraxinus excelsior</i> Ash	M	250	8	N=2 S=2 E=2 W=2	2	Fair	A semi-mature ash that has suffered basal damage	Retain- no works required	C2	3.5m
T2208	Ash	M	320	10	N=3 S=3 E=3 W=3	1	Good	A mature ash tree displaying a good overall condition	Retain- no works required	B2	4m
T2209	<i>Thujaopsis dolabrata</i> Hiba	M	500	14	N=5 S=5 E=6 W=6	1	Good	A mature Hiba displaying a good condition.	Retain –remove scrub surrounding the tree this will emphasise the tree more	B2	6m
T2210 x 2	<i>Thuja plicata</i> Western red cedar	M	400	14	N=3 S=3 E=3 W=3	1	Good	A mature cedar displaying a good condition.	Retain –remove scrub surrounding the tree this will emphasise the tree more	B2	6m

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Tree # <sup>1</sup>	Species	Age class	Size <sup>2</sup> (mm)	Height (M)	Crown Sp.(M)	Crown Cl.(M)	Condition <sup>3</sup>	Structural/Physiological Observations	Remedial Recommendation	Category <sup>4</sup>	RPA <sup>6</sup> Radius m
T2211 x 4	Ash	SM	250	10	N=2 S=2 E=2 W=2	1	Fair	A cluster of 3 sm ash on the river bank leaning toward the river due to the larger trees to the rear. They will continue to grow in this manner	Consider for removal	C2/U	
T2212	<i>Fagus sylvatica</i> Beech	M	1100	20	N=6 S=6 E=6 W=6	2	Good	A large mature beech displaing a good overall condition. It has been recently crown reduced which will decrease its failure potential	Retain- no works required	B2	12m
T2213	Sycamore	M	400	12	N=3 S=3 E=3 W=3	1	Good	A mature sycamore growing adjacent the ruined house	Retain- no works required	B2	5m
T2214 x 4	Sycamore	M	320	10	N=3 S=3 E=3 W=3	2	Good	A cluster of 4 self seeded sycamores d	Retain- no works required	C2	4m
T2215	<i>Aesculus hippocastanum</i> Horse chestnut	Om	800	9	N=3 S=3 E=3 W=3	1	Poor	A large mature chestnut that has suffered extensive damage to its upper canopy, there are suckers maturing however these will eventually become hazardous	Remove to ground level	U	

**Table 1. Tree Inventory for Suir Island.**

<b>Tree #<sup>1</sup></b>	<b>Species</b>	<b>Age class</b>	<b>Size<sup>2</sup> (mm)</b>	<b>Height (M)</b>	<b>Crown Sp.(M)</b>	<b>Crown Cl.(M)</b>	<b>Condition<sup>3</sup></b>	<b>Structural/Physiological Observations</b>	<b>Remedial Recommendation</b>	<b>Category<sup>4</sup></b>	<b>RPA<sup>6</sup> Radius m</b>
T2216	Horse chestnut	M	300	10	N=2 S=2 E=2 W=2	1	Fair	A cluster of 3 m chestnuts that are leaning severely toward the canoe slalom and will continue to grow in this manner	Remove	U	
T2217	<i>Cupressus macrocarpa</i> Monterey Cypress	M	380	10	N=2 S=2 E=2 W=2	2	Good	A mature Cypress displaying a good overall condition. It is not growing in the right location and will in time outgrow its living space	Maybe cost effective to remove at this size	U/C2	
T2218 x 2	Sycamore	M	300	10	N=2 S=2 E=2 W=2	1	Good	Two mature sycamore displaying a good overall condition there are also two young ash in this row	Retain- no works required	C2	4m
T2219	Sycamore	M	250	12	N=2 S=2 E=2 W=2	2	Good	A mature sycamore displaying a good overall condition	Retain- no works required	C2	3.5m
T2220	Sycamore	M	250	10	N=2 S=2 E=2 W=2	2	Good	A mature sycamore displaying a good overall condition	Retain- no works required	C2	3.5m

**Table 1. Tree Inventory for Suir Island.**

<b>Tree #<sup>1</sup></b>	<b>Species</b>	<b>Age class</b>	<b>Size<sup>2</sup> (mm)</b>	<b>Height (M)</b>	<b>Crown Sp.(M)</b>	<b>Crown Cl.(M)</b>	<b>Condition<sup>3</sup></b>	<b>Structural/Physiological Observations</b>	<b>Remedial Recommendation</b>	<b>Category<sup>4</sup></b>	<b>RPA<sup>6</sup> Radius m</b>
T2221	<i>Laurus nobilis</i> Bay	M	200	6	N=2 S=2 E=2 W=2	1	Good	A bay leaf tree/shrub displaying good overall condition	Retain	C2	3m
T2222	Sycamore	M	380	12	N=2 S=2 E=2 W=2	2	Fair	A mature sycamore that is completely suppressed by clematis	Remove the clematis	C2	4.5m
T2223	Ash	M	300	12	N=2 S=2 E=2 W=2	1	Fair	A mature ash displaying a fair overall condition leaning severely toward the rive	Retain- no works required	C2	4m
T2224	Sycamore	M	350	12	N=3 S=3 E=3 W=3	2	Good	A mature sycamore displaying a good overall condition	Retain- no works required	C2	4.5m
T2225- 2226	Sycamore x 5	M	320	10	N=2 S=2 E=2 W=2	2	Good	Represents 5 mature sycamore displaying a good overall condition	Retain- no works required	C2	4.5m

**Table 1. Tree Inventory for Suir Island.**

<b>Tree #<sup>1</sup></b>	<b>Species</b>	<b>Age class</b>	<b>Size<sup>2</sup> (mm)</b>	<b>Height (M)</b>	<b>Crown Sp.(M)</b>	<b>Crown Cl.(M)</b>	<b>Condition<sup>3</sup></b>	<b>Structural/Physiological Observations</b>	<b>Remedial Recommendation</b>	<b>Category<sup>4</sup></b>	<b>RPA<sup>6</sup> Radius m</b>
T2227	Yew	M	500	10	N=3 S=3 E=3 W=3	2	Good	A large mature Yew that is partially uprooted, it is being propped up.	Retain- reduce the weight on the downward facing limbs	B2	6m
T2228	Sycamore x 2	M	380	12	N=2 S=2 E=2 W=2	2	Fair	Two mature sycamore displaying a good overall condition	Retain- no works required	C2	4.5m
T2229	Yew	M	450	12	N=3 S=3 E=3 W=3	1	Good	A mature Yew displaying a fair overall condition	Retain- no works required	B2	5.5m
T2230	Sycamore	M	350	10	N=3 S=3 E=3 W=4	2	Good	A mature sycamore displaying a good overall condition. Leaning toward the river	Retain- no works required	C2	4.5m
T2231	Beech	Om	1200	26	N=5 S=5 E=5 W=5	2	Good	A large om beech displaying a good overall condition. There are small cavities found however there are no fungi associated with them	Retain- no works required, further investigations may be required	A2	12m

**Table 1. Tree Inventory for Suir Island.**

<b>Tree #<sup>1</sup></b>	<b>Species</b>	<b>Age class</b>	<b>Size<sup>2</sup> (mm)</b>	<b>Height (M)</b>	<b>Crown Sp.(M)</b>	<b>Crown Cl.(M)</b>	<b>Condition<sup>3</sup></b>	<b>Structural/Physiological Observations</b>	<b>Remedial Recommendation</b>	<b>Category<sup>4</sup></b>	<b>RPA<sup>6</sup> Radius m</b>
T2232	Yew	M	500	8	N=3 S=3 E=3 W=3	2	Good	A large mature Yew that is partially uprooted, it is being propped up.	Retain- reduce the weight on the downward facing limbs	B2	6m
T2233- 2234	Sycamore x 4	SM	220	8	N=2 S=2 E=2 W=2	2	Fair	Represents 4 sm sycamore clusters displaying a good overall condition	Retain- no works required	C2	3.5m
T2235	Ash	M	350	16	N=3 S=3 E=3 W=3	1	Good	A mature Ash displaying a good overall condition	Retain- no works required	B2	4.5m
T2236	Sycamore	M	300	12	N=2 S=2 E=3 W=4	2	Good	A mature sycamore displaying a good overall condition.	Retain- no works required	C2	4m
T2237	Sycamore	M	300	12	N=3 S=3 E=3 W=3	2	Good	A mature multi-stemmed sycamore displaying a good overall condition	Retain- no works required	C2	4m

**Table 1. Tree Inventory for Suir Island.**

<b>Tree #<sup>1</sup></b>	<b>Species</b>	<b>Age class</b>	<b>Size<sup>2</sup> (mm)</b>	<b>Height (M)</b>	<b>Crown Sp.(M)</b>	<b>Crown Cl.(M)</b>	<b>Condition<sup>3</sup></b>	<b>Structural/Physiological Observations</b>	<b>Remedial Recommendation</b>	<b>Category<sup>4</sup></b>	<b>RPA<sup>6</sup> Radius m</b>
T2238	Sycamore	M	450	16	N=3 S=3 E=3 W=3	2	Good	A mature sycamore displaying a good overall condition.	Retain- required no works	B2	5.5m
T2239	Ash x 2	M	320	12	N=3 S=3 E=3 W=3	2	Good	Represents 2 mature ash displaying a good overall condition	Retain- required no works	B2	4m
T2240	<i>Populus tremula</i> Trembling aspen	M	800	20	N=4 S=4 E=4 W=4	4	Good	A large mature Aspen displaying a good overall condition	Retain- required no works	A2	9m
T2241	Ash	M	680	22	N=4 S=4 E=4 W=4	2	Good	A large mature Ash displaying a good overall condition.	Retain- required no works	B2	8m
T2242	Sycamore	M	300	12	N=3 S=3 E=3 W=3	2	Good	A mature multi-stemmed sycamore displaying a good overall condition	Retain- required no works	C2	4m

**Table 1. Tree Inventory for Suir Island.**

<b>Tree #<sup>1</sup></b>	<b>Species</b>	<b>Age class</b>	<b>Size<sup>2</sup> (mm)</b>	<b>Height (M)</b>	<b>Crown Sp.(M)</b>	<b>Crown Cl.(M)</b>	<b>Condition<sup>3</sup></b>	<b>Structural/Physiological Observations</b>	<b>Remedial Recommendation</b>	<b>Category<sup>4</sup></b>	<b>RPA<sup>6</sup> Radius m</b>
T2243 x 2	Sycamore	M	400	14	N=3 S=3 E=3 W=3	2	Good	Two mature sycamore displaying a good overall condition.	Retain- no works required	B2	5m
T2244	Sycamore	M	400	14	N=3 S=3 E=3 W=3	2	Good	Two mature sycamore displaying a good overall condition.	Retain- no works required	B2	5m
T2245	Horse chestnut	M	500	9	N=4 S=4 E=4 W=4	4	Good	A large mature multi-stemmed chestnut displaying a good overall condition	Retain- no works required	B2	6m
T2246	Ash	M	380	14	N=4 S=4 E=4 W=4	2	Good	A mature Ash displaying a good overall condition.	Retain- no works required	B2	5m
T2247	Sycamore	M	300	16	N=3 S=3 E=3 W=3	2	Good	A mature multi-stemmed sycamore displaying a good overall condition	Retain- no works required	C2	4m

**Table 1. Tree Inventory for Suir Island.**

<b>Tree #<sup>1</sup></b>	<b>Species</b>	<b>Age class</b>	<b>Size<sup>2</sup> (mm)</b>	<b>Height (M)</b>	<b>Crown Sp.(M)</b>	<b>Crown Cl.(M)</b>	<b>Condition<sup>3</sup></b>	<b>Structural/Physiological Observations</b>	<b>Remedial Recommendation</b>	<b>Category<sup>4</sup></b>	<b>RPA<sup>6</sup> Radius m</b>
T2248	Sycamore	M	300	16	N=3 S=3 E=3 W=3	2	Good	A mature multi-stemmed sycamore displaying a good overall condition	Retain- no works required	C2	4m
T2249	Sycamore	M	300	16	N=3 S=3 E=3 W=3	2	Good	A mature multi-stemmed sycamore displaying a good overall condition	Retain- no works required	C2	4m
T2250	Sycamore	M	300	16	N=3 S=3 E=3 W=3	2	Good	A mature multi-stemmed sycamore displaying a good overall condition	Retain- no works required	C2	4m
T2251	Beech	M	350	14	N=2 S=2 E=2 W=2	2	Good	A mature beech displaying a good overall condition.	Retain- no works required	B2	4.5m
T2252	Horse chestnut	M	720	16	N=3 S=3 E=3 W=3	2	Fair	A mature chestnut displaying a fair overall condition, there is evidence of bleeding canker, however the tree is leaning away from any potential path	Retain- no works required	C2	8m

**Table 1. Tree Inventory for Suir Island.**

<b>Tree #<sup>1</sup></b>	<b>Species</b>	<b>Age class</b>	<b>Size<sup>2</sup> (mm)</b>	<b>Height (M)</b>	<b>Crown Sp.(M)</b>	<b>Crown Cl.(M)</b>	<b>Condition<sup>3</sup></b>	<b>Structural/Physiological Observations</b>	<b>Remedial Recommendation</b>	<b>Category<sup>4</sup></b>	<b>RPA<sup>6</sup> Radius m</b>
T2253	Horse chestnut	M	700	16	N=3 S=3 E=3 W=3	2	Good	A mature chestnut leaning over the water, however this is a natural lean caused by the larger trees to the rear displaying a good overall condition	Retain- no works required	A2	8m
T2254	Beech	M	700	22	N=5 S=5 E=5 W=5	2	Good	A mature Beech leaning over the water, however this is a natural lean caused by the larger trees to the rear displaying a good overall condition	Retain- no works required	A2	8m
T2255	Horse chestnut	SM	220	10	N=3 S=3 E=3 W=3	2	Good	A semi-mature chestnut displaying a good overall condition.	Retain- no works required	C2	3m
T2256	Horse chestnut	M	350	14	N=4 S=4 E=4 W=4	2	Good	A mature multi-stemmed horse chestnut displaying a good overall condition.	Retain- no works required	B2	4.5m
T2257	Horse chestnut	M	500	16	N=3 S=3 E=3 W=3	2	Good	A mature multi-stemmed horse chestnut displaying a good overall condition.	Retain- no works required	B2	6m

**Table 1. Tree Inventory for Suir Island.**

<b>Tree #<sup>1</sup></b>	<b>Species</b>	<b>Age class</b>	<b>Size<sup>2</sup> (mm)</b>	<b>Height (M)</b>	<b>Crown Sp.(M)</b>	<b>Crown Cl.(M)</b>	<b>Condition<sup>3</sup></b>	<b>Structural/Physiological Observations</b>	<b>Remedial Recommendation</b>	<b>Category<sup>4</sup></b>	<b>RPA<sup>6</sup> Radius m</b>
T2258	Horse chestnut	M	350	14	N=4 S=4 E=4 W=4	2	Good	A mature multi-stemmed horse chestnut displaying a good overall condition.	Retain- no works required	B2	4.5m
T2259	Sycamore	M	300	16	N=3 S=3 E=3 W=3	2	Good	A mature multi-stemmed sycamore displaying a good overall condition	Retain- no works required	C2	4m
T2260	Horse chestnut	M	340	14	N=3 S=3 E=3 W=3	2	Good	A mature chestnut cluster displaying a good overall condition.	Retain- no works required	B2	4m
T2261	Horse chestnut	M	350	12	N=3 S=3 E=3 W=3	2	Good	A mature horse chestnut displaying a good overall condition.	Retain- no works required	B2	4.5m
T2262	Lime	M	350	16	N=4 S=4 E=4 W=4	2	Good	A mature multi-stemmed lime displaying a good overall condition.	Retain- no works required	B2	4.5m

**Table 1. Tree Inventory for Suir Island.**

Tree # <sup>1</sup>	Species	Age class	Size <sup>2</sup> (mm)	Height (M)	Crown Sp.(M)	Crown Cl.(M)	Condition <sup>3</sup>	Structural/Physiological Observations	Remedial Recommendation	Category <sup>4</sup>	RPA <sup>6</sup> Radius m
T2263	Lime	M	350	16	N=4 S=4 E=4 W=4	2	Good	A mature multi-stemmed lime displaying a good overall condition.	Retain- no works required	B2	4.5m
T2264	Ash	M	480	16	N=3 S=3 E=3 W=3	2	Good	A mature Ash displaying a good overall condition	Retain- no works required	B2	6m
T2265	<i>Pinus sylvestris</i> Scots Pine	M	700	22	N=3 S=3 E=3 W=3	2	Good	A large mature Pine displaying a good overall condition.	Retain- no works required	A2	8m
T2266	Horse chestnut	M	600	16	N=3 S=3 E=3 W=3	2	Good	A mature horse chestnut displaying a good overall condition.	Retain- no works required	B2	7m
T2267	Ash	M	600	18	N=4 S=4 E=4 W=4	2	Good	A mature Ash displaying a good overall condition.	Retain- no works required	B2	7m

**Table 1. Tree Inventory for Suir Island.**

<b>Tree #<sup>1</sup></b>	<b>Species</b>	<b>Age class</b>	<b>Size<sup>2</sup> (mm)</b>	<b>Height (M)</b>	<b>Crown Sp.(M)</b>	<b>Crown Cl.(M)</b>	<b>Condition<sup>3</sup></b>	<b>Structural/Physiological Observations</b>	<b>Remedial Recommendation</b>	<b>Category<sup>4</sup></b>	<b>RPA<sup>6</sup> Radius m</b>
T2268	<i>Salix fragilis</i> Willow	M	350	16	N=4 S=4 E=4 W=4	2	Good	A mature multi-stemmed willow cluster displaying a good overall condition. Appropriate riverside tree	Retain- no works required	B2	4.5m
T2269	Willow	M	600	18	N=4 S=4 E=4 W=4	2	Good	A large mature Willow displaying a good overall condition. Appropriate for its location	Retain- no works required	A2	7m
T2270	Sycamore	M	300	10	N=2 S=2 E=2 W=2	2	Good	A mature sycamore cluster displaying a good overall condition.	Retain- no works required	C2	4m
T2271	Willow x 2	M	500	12	N=3 S=3 E=3 W=3	2	fair	Represents two mature willow that have suffered stem damage	Retain- no works required	C2	6m
T2272	Ash	M	350	16	N=2 S=2 E=2 W=2	2	Good	A mature Ash displaying a good overall condition.	Retain- no works required	B2	4.5m

**Table 1. Tree Inventory for Suir Island.**

Tree # <sup>1</sup>	Species	Age class	Size <sup>2</sup> (mm)	Height (M)	Crown Sp.(M)	Crown Cl.(M)	Condition <sup>3</sup>	Structural/Physiological Observations	Remedial Recommendation	Category <sup>4</sup>	RPA <sup>6</sup> Radius m
T2273	Sycamore	M	300	10	N=2 S=2 E=2 W=2	2	Good	A mature sycamore cluster displaying a good overall condition.	Retain- no works required	C2	4m
T2274 x 3	<i>Alnus glutinosa</i> Common Alder	M	400	16	N=3 S=3 E=3 W=3	2	Good	Represents 3 mature alder displaying a good overall condition. Appropriate for their location	Retain- no works required	B2	5m
T2275	Horse chestnut	M	300	8	N=4 S=4 E=4 W=4	2	Good	A mature multi-stemmed chestnut displaying a good overall condition.	Retain- no works required	B2	4m
T2276	Aspen	OM	800	24	N=3 S=3 E=3 W=3	2	Good	Represents a group of 13 large mature to overmature aspen. The most dominant group of trees on the island	Retain- no works required	A2	9m
T2277	Willow	M	350	14	N=2 S=2 E=2 W=2	2	Good	A mature willow displaying a good overall condition. On the banks of the river	Retain- no works required	B2	4.5m

**Table 1. Tree Inventory for Suir Island.**

<b>Tree #<sup>1</sup></b>	<b>Species</b>	<b>Age class</b>	<b>Size<sup>2</sup> (mm)</b>	<b>Height (M)</b>	<b>Crown Sp.(M)</b>	<b>Crown Cl.(M)</b>	<b>Condition<sup>3</sup></b>	<b>Structural/Physiological Observations</b>	<b>Remedial Recommendation</b>	<b>Category<sup>4</sup></b>	<b>RPA<sup>6</sup> Radius m</b>
T2278	Ash	M	400	12	N=2 S=2 E=2 W=2	2	Good	A mature ash tree displaying a good overall condition.	Retain- no works required	B2	5m
T2279	Elm	M	300	8	N=2 S=2 E=2 W=2	2	Good	Represents an elm cluster displaying a good overall condition. Appropriate for their location	Retain- no works required	C2	4m
T2280	Horse chestnut	M	500	8	N=6 S=2 E=2 W=2	2	Good	A mature multi-stemmed chestnut displaying a good overall condition.	Retain- no works required	B2	4m
T2281	Sycamore x 5	M	400	14	N=2 S=2 E=2 W=2	2	Good	Represents a group of 5 mature Sycamore. Displaying a good overall condition	Retain- no works required	C2	5m
T2282	Ash	M	350	18	N=5 S=5 E=5 W=5	2	Good	A mature Ash displaying a good overall condition.	Retain- no works required	B2	4.5m

**Table 1. Tree Inventory for Suir Island.**

<b>Tree #<sup>1</sup></b>	<b>Species</b>	<b>Age class</b>	<b>Size<sup>2</sup> (mm)</b>	<b>Height (M)</b>	<b>Crown Sp.(M)</b>	<b>Crown Cl.(M)</b>	<b>Condition<sup>3</sup></b>	<b>Structural/Physiological Observations</b>	<b>Remedial Recommendation</b>	<b>Category<sup>4</sup></b>	<b>RPA<sup>6</sup> Radius m</b>
T2283	Sycamore x 2	M	600	20	N=4 S=4 E=5 W=4	2	Good	Two large mature multi-stemmed sycamore. Displaying a good overall condition	Retain- no works required	B2	7m
T2284	Lime	M	600	18	N=6 S=6 E=6 W=6	2	Good	Represents a large mature Lime displaying a good overall condition. Appropriate for their location	Retain- no works required	A2	7m
T2285	Horse chestnut	M	500	8	N=7 S=2 E=2 W=2	2	Good	A mature multi-stemmed chestnut displaying a good overall condition. Leaning toward the river	Retain- no works required	B2	6m
T2286	Horse chestnut	M	500	8	N=7 S=2 E=2 W=2	2	Good	A mature multi-stemmed chestnut displaying a good overall condition. Leaning toward the river	Retain- no works required	B2	6m
T2287	Sycamore x 3	M	400	14	N=2 S=2 E=2 W=2	2	Good	Represents 3 mature sycamores displaying a good overall condition.	Retain- no works required	B2	4.5m

**Table 1. Tree Inventory for Suir Island.**

<b>Tree #<sup>1</sup></b>	<b>Species</b>	<b>Age class</b>	<b>Size<sup>2</sup> (mm)</b>	<b>Height (M)</b>	<b>Crown Sp.(M)</b>	<b>Crown Cl.(M)</b>	<b>Condition<sup>3</sup></b>	<b>Structural/Physiological Observations</b>	<b>Remedial Recommendation</b>	<b>Category<sup>4</sup></b>	<b>RPA<sup>5</sup> Radius m</b>
T2288	Ash x 4	M	600	20	N=4 S=4 E=5 W=4	2	Good	Four large mature multi-stemmed ash. Displaying a good overall condition	Retain- no works required	B2	7m
T2289	Lime	M	400	18	N=4 S=4 E=4 W=4	2	Good	Represents a large mature Lime displaying a good overall condition. Appropriate for their location	Retain- no works required	B2	5m
T2290	Sycamore	M	400	18	N=4 S=4 E=4 W=4	2	Good	Represents a large mature Sycamore displaying a good overall condition. Appropriate for their location	Retain- no works required	B2	5m
T2291	Lawson cypress	M	400	18	N=2 S=2 E=2 W=2	2	Good	A mature Lawson cypress located along the river bank, adds variety to the deciduous canopy displaying a good overall condition.	Retain- no works required	B2	5m
T2292	Sycamore x 2	M	400	16	N=2 S=2 E=2 W=2	2	Good	Represents 2 mature sycamores displaying a good overall condition.	Retain- no works required	B2	5m

**Table 1. Tree Inventory for Suir Island.**

<b>Tree #<sup>1</sup></b>	<b>Species</b>	<b>Age class</b>	<b>Size<sup>2</sup> (mm)</b>	<b>Height (M)</b>	<b>Crown Sp.(M)</b>	<b>Crown Cl.(M)</b>	<b>Condition<sup>3</sup></b>	<b>Structural/Physiological Observations</b>	<b>Remedial Recommendation</b>	<b>Category<sup>4</sup></b>	<b>RPA<sup>6</sup> Radius m</b>
T2293	Sycamore x 2	M	400	18	N=2 S=2 E=2 W=2	2	Good	Represents 2 mature sycamores displaying a good overall condition.	Retain- no works required	B2	5m
T2294	Sycamore x 2	M	400	12	N=2 S=2 E=2 W=2	2	Good	Represents 2 mature sycamores displaying a good overall condition.	Retain- remove the clematis	C2	5m
T2295	Sycamore	M	400	16	N=3 S=3 E=3 W=3	2	Good	Represents a large mature Sycamore displaying a good overall condition.	Retain- no works required	B2	5m
T2296	Cherry	M	500	12	N=5 S=5 E=5 W=5	2	Good	A mature cherry displaying a good overall condition.	Retain- no works required	B2	6m
T2297 x 4	<i>Populus alba</i> White poplar	M	300	12	N=3 S=3 E=3 W=3	2	Good	Represents a cluster of 4 mature poplars displaying a good overall condition.	Retain- no works required	B2	4m

**Table 1. Tree Inventory for Suir Island.**

<b>Tree #<sup>1</sup></b>	<b>Species</b>	<b>Age class</b>	<b>Size<sup>2</sup> (mm)</b>	<b>Height (M)</b>	<b>Crown Sp.(M)</b>	<b>Crown Cl.(M)</b>	<b>Condition<sup>3</sup></b>	<b>Structural/Physiological Observations</b>	<b>Remedial Recommendation</b>	<b>Category<sup>4</sup></b>	<b>RPA<sup>5</sup> Radius m</b>
T2298	Sycamore x 5	M	400	16	N=3 S=3 E=3 W=3	2	Good	Represents 5 mature sycamores displaying a good overall condition.	Retain- no works required	B2	5m
T2299- 2300	Sycamore x 6	M	500	18	N=3 S=3 E=3 W=3	2	Good	Represents 6 large mature sycamores displaying a good overall condition. On the river bank in view of the town	Retain- remove the clematis	B2	6m
T2301	Horse chestnut	M	850	22	N=6 S=6 E=6 W=6	2	Good	Represents a large mature chestnut on the riverbank, fantastic specimen	Retain- no works required	A2	9.5m
T2302	Lime	OM	1000	22	N=6 S=6 E=6 W=6	2	Good	A large overmature Lime displaying a good overall condition.	Retain- no works required	A2	12m
T2303	Horse chestnut	OM	1000	22	N=6 S=6 E=6 W=6	2	Good	A large overmature chestnut displaying a good overall condition.	Retain- no works required	A2	12m

**Table 1. Tree Inventory for Suir Island.**

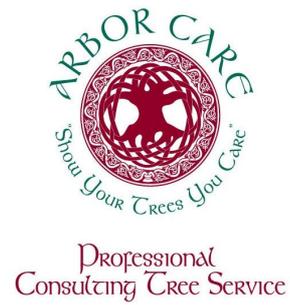
Tree # <sup>1</sup>	Species	Age class	Size <sup>2</sup> (mm)	Height (M)	Crown Sp.(M)	Crown Cl.(M)	Condition <sup>3</sup>	Structural/Physiological Observations	Remedial Recommendation	Category <sup>4</sup>	RPA <sup>6</sup> Radius m
T2304	Sycamore	M	800	22	N=6 S=6 E=6 W=6	2	Good	Represents a large mature sycamores displaying a good overall condition.	Retain- no works required	A2	9m
T2305	Lime	M	750	24	N=6 S=6 E=6 W=6	2	Good	Represents a large mature Lime displaying a good overall condition. On the river bank in view of the town	Retain- remove the clematis	A2	9m
T2306	Sycamore	M	450	12	N=4 S=4 E=4 W=4	2	Good	Represents a mature Sycamore displaying a good overall condition	Retain- no works required	B2	5.5m
T2307	Sycamore	M	450	12	N=4 S=4 E=4 W=4	2	Good	Represents a mature Sycamore displaying a good overall condition	Retain- no works required	B2	5.5m
T2308	Sycamore	M	450	12	N=4 S=4 E=4 W=4	2	Good	Represents a mature Sycamore displaying a good overall condition	Retain- no works required	B2	5.5m

**Table 1. Tree Inventory for Suir Island.**

<b>Tree #<sup>1</sup></b>	<b>Species</b>	<b>Age class</b>	<b>Size<sup>2</sup> (mm)</b>	<b>Height (M)</b>	<b>Crown Sp.(M)</b>	<b>Crown Cl.(M)</b>	<b>Condition<sup>3</sup></b>	<b>Structural/Physiological Observations</b>	<b>Remedial Recommendation</b>	<b>Category<sup>4</sup></b>	<b>RPA<sup>6</sup> Radius m</b>
T2309	Sycamore	M	450	12	N=4 S=4 E=4 W=4	2	Good	Represents a mature Sycamore displaying a good overall condition	Retain- no works required	B2	5.5m
T2310	Sycamore	M	450	12	N=4 S=4 E=4 W=4	2	Good	Represents a mature Sycamore displaying a good overall condition	Retain- no works required	B2	5.5m
T2311	Sycamore	M	450	12	N=4 S=4 E=4 W=4	2	Good	Represents a mature Sycamore displaying a good overall condition	Retain- no works required	B2	5.5m
T2312	Sycamore	M	450	12	N=4 S=4 E=4 W=4	2	Good	Represents a mature Sycamore displaying a good overall condition	Retain- no works required	B2	5.5m
T2313	Horse chestnut	M	450	18	N=4 S=4 E=4 W=4	2	Good	Represents a mature multi stemmed chestnut displaying a good overall condition	Retain- no works required	B2	5.5m

**Table 1. Tree Inventory for Suir Island.**

<b>Tree #<sup>1</sup></b>	<b>Species</b>	<b>Age class</b>	<b>Size<sup>2</sup> (mm)</b>	<b>Height (M)</b>	<b>Crown Sp.(M)</b>	<b>Crown Cl.(M)</b>	<b>Condition<sup>3</sup></b>	<b>Structural/Physiological Observations</b>	<b>Remedial Recommendation</b>	<b>Category<sup>4</sup></b>	<b>RPA<sup>6</sup> Radius m</b>
T2314	Horse chestnut	M	450	18	N=4 S=4 E=4 W=4	2	Good	Represents a mature multi stemmed chestnut displaying a good overall condition	Retain- no works required	B2	5.5m
T2315	Sycamore	SM	280	8	N=2 S=2 E=2 W=2	2	Good	Represents a mature Sycamore displaying a good overall condition	Retain- no works required	B2	5.5m



Notes:

- 1- Tags were affixed to the main stem of the tree (Where practical). Tag numbers range from inclusively 2201-2315
- 2- Diameters were measured using callipers at approximately 1.5m above grade (DBH)
- 3- Specimen condition is based on a 5-tier rating system: very poor (1-20%)-poor (21-40%)-fair (41-60%)-good (61-80%)-very good (81-100%), where 100% would be a perfect species phenotype.
- 4- Tree categorization is used to identify the quality and value of the existing tree stock to allow informed decisions to be made concerning which trees should be removed or retained should development occur. (Refer to Comments for further information)
- 5- It should be noted that root systems are often highly asymmetric, so that an arbitrarily designated circular protection area maybe inadequate on one side, asymmetry should be suspected if the ground is sloping or if there are existing roads or buildings in the vicinity.



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Yours in Conservation,

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**Figure 1.**  
**Below highlights a suitable area for the footbridge. There would be no impact on the trees.**



**Figure 2. Displays the trees along the spit. Due to their location they could not be safely tagged. However they are of high amenity value and in good condition**



**Figure 3. Displays the soil heap that is over grown.**



**Figure 4. Displays trees 2201. High quality trees of high amenity value**

