# TREE SURVEY AND REPORT

FOR

## **SELECTED LANDS AT BLACKROCK CYCLE SCHEME**

OCTOBER 2022

**COMMISSIONED BY** 

**ATKINS GLOBAL** 

Dr Philip Blackstock

PB

## TREE SURVEY AND REPORT

On selected trees growing in the grounds of

## Lands at Blackrock affected by the proposed Blackrock Cycle Scheme

For

### **Atkins Global**

Terms of reference

This report was commissioned to record information on trees growing on or immediately adjacent to the above site (as defined in BS5837:2012). Obvious defects in these trees were noted, as were features that may create an impediment to a statutory provision or cause a nuisance. Recommendations for tree works that will eliminate, as far as is possible, the risk from dead or dangerous trees, abate nuisance and address the legal requirements of statutory providers have been included.

## Methodology

Trees growing on the above site were subject to a visual inspection carried out from the ground. The base of each trunk was 'sounded' to identify significant basal decay and evidence of recent alterations to site conditions was noted. Measurements, distinguishing features and evidence of defects were collated electronically on site. No other methods for establishing the condition of these trees were used.

Site surveyed on

#### **27<sup>th</sup> October 2022**

(It is recommended that the trees reported on here are re-surveyed within five years of this report, or where significant deterioration has become evident, whichever is sooner)

Survey carried out and report compiled by

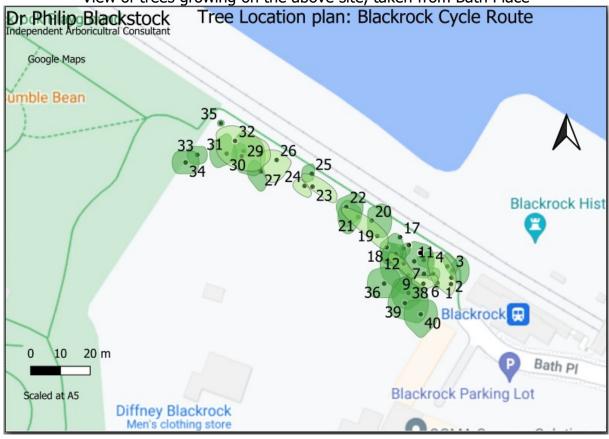
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TREES AT LANDS AT BLACKROCK



View of trees growing on the above site, taken from Bath Place



# REPORT ON SELECTED TREES GROWING AT LANDS AT BLACKROCK OCTOBER 2022

- 1. Location & visual impact of the trees. Blackrock, in South Co Dublin, is one of the most attractive residential areas in Ireland. It is defined by a mix of historic dwellings interspersed by more modern houses and apartments, all well served by parks and amenities. Deepwell is one of the most prestigious houses in Blackrock. It occupies a commanding site overlooking Dublin Bay and has a very well formed and well designed garden. It is understood that, as part of the upgrading of an existing path, some of the gardens surrounding Deepwell will be taken. The lands under consideration support a low shelterbelt of mainly exotic trees and shrubs. This belt of trees and shrubs help to screen the railway line from the house, but do not particularly interfere with the view of the sea. As such, they are significant to the Deepwell and its gardens.
- 2. Historical development of the site. Most of the trees and shrubs reported on here were planted about fifty years ago, probably to provide low screening from the Railway. There is evidence of additional planting, particularly close to Bath Place that is now about fifteen years old.
- 3. Tree condition & recommendations. There were a number of dead and dying trees growing within this shelterbelt. Most of these were native species that were not particularly immune to salt stress. While on site, there was evidence that high tide resulted in a raised water table within the lower part of the garden and this may be salt water from Dublin Bay. Those species originating from areas with a strong seasonal climate and summer droughts were not particularly affected. Trees and shrubs from this origan were still in a fairly good condition. It is understood that plans are being considered for the development of the above site. To ensure that trees to be retained are not damaged during construction, the Arboricultural method statements (that are included in this report) relevant to this project should be adopted.

All other recommendations are as per attached tree survey report sheets.

## **Dr Philip Blackstock**

## **ARBORICULTURAL METHOD STATEMENTS**

**Protection of trees**. A protective barrier, 2.3m high and comprising a vertical and horizontal framework of scaffolding, well braced to resist impacts and securely supporting weldmesh panels, (as illustrated in Figs 2 & 3 of BS5837:2012) shall be erected around the base of all trees to be retained on site. This barrier shall be clearly identified on site by the attachment of all-weather signs of suitable dimension stating: 'CONSTRUCTION EXCLUSION ZONE – NO ACCESS'. The line of this fence shall be at least the distance defined in the attached plan, or as otherwise directed by Dr Philip Blackstock. No construction traffic, materials or debris will be permitted within this zone of protection.

**Access facilitation pruning**. If it is deemed appropriate to trim back retained trees to provide adequate access to approved construction works, all such tree works should be undertaken by a competent and suitably qualified tree surgeon (will associated support, as defined in the Health and safety section of this report). Such works shall remedy any tree related conflict with proposed structures or access in a way that ensure that not less than 70% of live buds are retained within the tree canopy. The aim of the tree works shall be to retain the general form of the tree by a combination of crown thinning, reduction of end weight (tipping back of outermost branches) and the re-forming of the trees crown to create a pleasing and balanced crown. No branch, limb or trunk greater than 100mm diameter shall be cut in the process of reducing end weight.

**Temporary surfaces within zone of protection**. Where temporary access is to be established within the 'zone of protection' surrounding retained trees, (for example, during demolition of existing buildings), ground surfaces will be protected by a layer of sharp sand, approx. 50 mm thick, overlaid with a geotextile membrane on which a temporary surface of no fines granular material, at least 150 mm thick, (as detailed by a competent Civil or Structural Engineer) is laid. Where traffic is turning on these surface, stout planks will be laid over the geotextile membrane and below the granular material. The trunks of adjacent trees shall be suitably protected as indicated on site by Dr Philip Blackstock.

**Demolition within the zone of protection**. If it is deemed necessary to carry out demolition works within a construction exclusion zone surrounding retained trees, (for example, to remove existing paths), or kerbs, only pedestrian operated plant, or low ground pressure plant that is less than 2 tonnes gross weight fully loaded, shall be permitted. Such plant shall only be operated on existing hard surfaces, or where temporary surfaces have been established. In any case, no excavations within the root protection zone of these retained trees shall be permitted, except only, under close supervision, with the use of an 'Air Spade' or by the careful use of hand tools in a way that retains, without damage, all exposed roots with a diameter greater than 25mm.

**Scaffolding within zone of protection**. Where scaffolding is to be established within the 'zone of protection' surrounding retained trees, the existing undisturbed ground surfaces shall be protected by a layer of sharp sand, approx. 50 mm thick, overlaid with a geotextile membrane. Stout planks, such as closely side-butted scaffold boards, will be laid over the geotextile membrane and scaffolding will be constructed on these planks with additional stays, as directed by a competent person. Adequate protective fencing, as Illustrated in Figs 2 & 3 of BS5837:2012, will be maintained between scaffolding and adjacent trees.

**Construction of hard surfaces close to retained trees**. Where permanent surfaces are to be constructed close to retained trees, within the zone of protection as defined by BS5837: 2012, carefully remove accumulated organic material and loose soil, leaving existing topsoil in situ. Protect root zone with a layer of sharp sand and, on this, establish a firm sub-base of nofines granular material supported on a geotextile membrane <u>and</u> a three-dimensional cell product (as defined by a competent Civil or Structural Engineer). Construct the paved area on this sub-base using established design guidelines (and no-fines granular material) with a porous surface finish such as pavers or porous bitmac.

Alterations of levels on lands adjoining construction exclusion zones. Where it is deemed appropriate to lower ground levels on land adjoining a root protection zone established around a retained tree, all excavations and the subsequent construction of supporting structures shall be managed in a way that excludes access by construction traffic to the construction exclusion zone. Where such alterations result in the lowering of existing surfaces, the existing ground water environment within the root protection zone shall be maintained by the insertion of a root barrier behind proposed supporting structures. This shall consist of a non-porous barrier carefully inserted in a way that maintains the existing soil moisture regime surrounding the retained tree. Where alterations result in the raising of levels, these shall be designed and detailed by a competent Civil or Structural Engineer to ensure no alterations to ground conditions within the root protection zones.

Landscaping within the root protection zone. If it is deemed necessary to carry out landscaping, planting or re-instatement works within a construction exclusion zone surrounding retained trees, only pedestrian operated plant, or low ground pressure plant that is less than 2 tonnes gross weight fully loaded, shall be permitted. Such works should be supervised by competent Horticulturalists and be timed and designed to ensure that no soil compaction occurs. In any case, no excavations within the root protection zone of these retained trees shall be permitted, except only, under close supervision, with the use of an 'Air Spade' or by the careful use of hand tools in a way that retains, without damage, all exposed roots with a diameter greater than 25mm.

Construction of garden walls or fences within the root protection zones of retained trees. No trench foundations are to be permitted within the root protection area of a retained tree. If walls, railings or other light structures are to be constructed within the root protection area of retained trees, these structures should be supported on point foundations excavated using a 300mm diameter drill or augur. (If in situ concrete foundations are to be constructed, the sides of the foundation pit, to 1.0m deep, should be lined with a non-porous lining.) In any case, no excavations for point foundations are to be permitted within 1.5m of a retained mature or semi mature tree. Excavations for these point foundations should be more than 2.0 apart and the wall or railings should be supported on a beam, or similar, constructed so that its underside is at least 50mm above exiting topsoil level. As the roots of large, retained trees may cause some movement within the top 1.0 m of the soil profile, all foundations should be designed by a competent Structural or Civil Engineer and be constructed to account for this.

#### **HEALTH AND SAFETY**

Working with trees is a hazardous occupation. It is important that competent tree surgery contractors are employed to carry out the tree works recommended in the attached tree survey report sheets. These contractors should carry all relevant insurance cover and should comply with the recommendations outlined below.

Notwithstanding the following recommendations, all tree surgeons and accompanying staff should comply with all the requirements contained in the Safety, Health and Welfare at Work Act 1989 (SHWW Act, 1989) and the Safety, Health and Welfare at Work (General Applications) Regulations, (GAR Regs, 1993) for forestry operations, Part 4 – work at height of the Safety, Health and Welfare at Work Regulations (2007), the Code of Practice for Managing Safety and Health in Forestry Operations and all subsequent legislation made thereunder.

#### Staff qualifications, experience and training

Only skilled operatives should be employed for all the work specified in the attached tree survey report sheets. These skilled operatives should have a proven expertise and experience in the areas of work specified and should hold all relevant certificates of competence.

Operatives using chain saws to fell trees must have National Proficiency Test Council (NPTC) certificate of competence Units CS 30, 31\*, 32\*, 33\* (\* whichever is appropriate for the size of tree being felled) if they are working from the ground and, in addition, Units CS 38, 39, 40 & 41 if they are climbing.

All operatives undertaking work near underground or overhead electric cables must have attended an Electricity Safety Awareness course, (such as UA1 Utility Arborist 1 Ireland). They must comply with the guidelines laid down in the Guidelines for Safe Working near Overhead Electricity lines in Agriculture (2010, published by the Health and Safety Authority), Code of Practice for Avoiding Danger from Overhead Electricity Lines (2019, published by ESB). Where there is a risk of a climber, equipment or parts of a tree touching or coming close to overhead cables, the advice of ESB must be sought, and adhered to, before work commences.

#### Work wear

All operatives should wear the appropriate safety clothing for the task being performed as specified in the relevant safety codes. Where operatives are employed on tree work near public roads, or when the available lighting is poor, they should wear high visibility 'florescent' jackets or waistcoats

#### **Tools and Equipment**

Tree surgeons should use such tools and equipment deemed suitable to complete the specified task. All bladed tools should be sharp and in a serviceable condition. All plant and machinery operated by the tree surgeon should be tested and certified to comply with all current legislation. All vehicles should be taxed and roadworthy. Machinery and vehicles should carry operational fire extinguishing equipment to the standards required by insurers.

All machinery should be used in accordance with the manufacturers' instructions. These machines should carry warning notices as specified by the relevant Health and safety guide.

Climbing and lifting equipment for tree work is subject to the provisions outlined in Chapter 2, Part 2 (updated 2010) of the Guide to the Safety, Health and Welfare at Work (General Application) Regulations 2007. Operatives using climbing or lifting equipment should be familiar with, and comply with, these and all other relevant regulations.

#### First aid

All chain saw operatives should have a current First Aid Certificate. No chain saw operative should be left working on site without an additional first aider present. These operatives should be familiar with FASTCo Safety Guide 802: Emergency Planning and First Aid.

All operatives should have immediate access to a first aid kit conforming to SI 1981 No 917 and FSC 34, and, in addition, carry a personal first aid kit which includes a large sterile wound dressing.

## **Site Organization**

Tree surgeons should ensure that a team of at least three people carry out all tree climbing, pruning and tree felling operations. When undertaking tree climbing work, one of the grounds staff must be competent to perform aerial rescue and be conversant with FASTCo Safety Guide 401: Aerial Tree Rescue. In addition, one of the ground staff must be made responsible for ensuring that there is no trespass into the working zone when tree pruning or felling operations are taking place. Adequate staff should be available during tree work operations to ensure that no unauthorized persons or livestock enter the working area.

Tree surgeons should provide and constantly maintain all necessary warning and direction notices, cones and barriers when carrying out tree works that are adjacent to a road or footpath used by the public. These should conform to the recommendations and directions given in;

- Chapter 8 of the Traffic Signs Manual 1993,
- Temporary Traffic Management Design Guidance 2019
- Temporary Traffic Management Operations Guidance 2019 (all published by Department of Transport, Tourism and Sport)
- Safety at Street Works and Road Works- a code of practice 2013
- Any other relevant legislation and guidance

Where tree works are to be carried out over, or adjacent to, public roads, the contractor should arrange the work to avoid traffic congestion and public inconvenience. They should make arrangements with the Garda Siochana and the local county council as may be found necessary.

## **KEY TO SURVEY SHEETS**

TITLE	DESCRIPTION
Tag No	The identification number of the tree, as indicated on site by a metal
	identification tag attached to the tree and defined with the prefixes; 'T'
	(tree), 'G' (group of trees) 'S' (shrubs), 'H' (hedge) and 'W' (area of
	wood)
Species	The common English name of the tree, as used by Alan Mitchell in 'A
	field Guide to the trees of Britain and Northern Europe' (Collins,
	London, 1974)
Height	The height of the tree, given in metres
Stem Diameter	The diameter of the tree trunk, measured at approximately 1.3 metres
	above ground level and given in centimetres
Crown spread	The radial crown spread of the tree for each of the four cardinal points,
	given in metres
Crown clearance	The height above ground to the first significance foliage, given in
	metres
Age	The life-cycle age of the tree, described as $\mathbf{Y} = \text{young}$ (vigorous growth,
	non-flowering), <b>YM</b> = young-mature (vigorous growth, some
	flowering, maturing crown), <b>AM</b> = almost mature (vigorous growth;
	mature crown), $\mathbf{M}$ = mature (slowing growth, full crown, flowering)
	and <b>OM</b> = over-mature (Little growth, heavy flowering, thinning crown
	or dieback)
Crown form	A general description of the tree as seen on site, including
	distinguishing features
Condition	The condition of the tree, as assessed by a visual inspection on site and
	described as <b>Good</b> (near perfect form and condition), <b>Fair</b> (normal
	form, sometimes requiring remedial works), <b>Poor</b> (significant
	weakness or rot, requiring substantial remedial works or felling) <b>Dying</b>
	(a tree within a year or two of death) and Dead (dead standing tree or stump)
Defect	The presence of weakness, rot or infection within the tree. This
Defect	supports the recommendations given for appropriate tree works
Obstacle	The presence of a manmade structure that is, in some way, being
Obstacie	affected or obstructed by the tree
Action	An outline tree management plan identifying the level and type of tree
Accion	works that would be appropriate to ensure that the site remains safe
	and that the tree develops in a safe and satisfactory manner
ULE	The remaining useful life expectancy on the tree, based on age,
	condition and the likely presence of significant diseases
Priority	An assessment of the priority of recommended tree works, based on
,	the likelihood of tree failure and described as <b>urgent</b> (immediate action
	is required, often entailing control of access until work is completed),
	<b>High</b> (work to be completed within the existing budget year; and
	before expected autumn or winter storms), <b>Medium</b> (work to be
	included in the next budget year) and <b>routine</b> (non-urgent tree work)
Target	The use made of the land on which the tree would fall, if it suffered a
	root plate failure, given as <b>High</b> (Road or Building) <b>Medium</b> (path or
	lawn) and <b>Low</b> unmanaged or farm land)

#### **ARBORICULTURAL TERMS**

The following interpretation of the terms used in the attached tree survey report sheets should be adopted when fulfilling their recommendations.

#### **Crown clean**

The removal of broken, diseased, dying or dead branches or snags that are either over 50 mm in diameter or are more than 200 mm in length.

#### Remove ivv

The cutting of ivy stems at their point of entry into the soil, taking care not to damage the tree. Al branches, stalks and creepers of both alive and dead ivy should be removed from the crown of the tree.

## **Trim or remove branch stumps**

The cutting of all branch stumps or snags back to just outside the branch collar and branch bark ridge.

## Remove swing / tree hut / sign etc.

The removal of structures within the crown or attached to the tree, including nails or other fastenings.

## Trim / tidy / remove epicormics

The removal of all soft growth or epicormics growing from the trunk of the tree, up to a height of 2.4 m.

## Crown lift to above eye level / over footpath.

The removal of all soft growth, including epicormics and all lateral branches, up to a height of 2.4 m above ground level. When lifting the crown, upright laterals may be retained.

## Crown lift over carriage / driveway etc

The removal of all lateral branches and soft growth that are overhanging, or within 1.0 m of, a road or lane, up to a height of 5.1 m.

#### Trim back from building

The removal of all lateral branches and soft growth growing within 2.0 m from the wall and from within at least 3.0 m from a window and above the roof of a building.

### **Clear overhead cables**

The removal of all branch growth from within, or likely to come within, 1.0 m from overhead telephone cables.

Where overhead electric cables are encountered, the tree surgeon must liaise with engineers from Northern Ireland Electricity and must conform to their recommendations and advice. All staff undertaking work near underground or overhead electric cables should have attended a Northern Ireland Electricity Safety Awareness course and must comply with the guidelines laid down in AFAG Safety Guide 804: Electricity at work; Forestry and Arboriculture.

#### Reduce / remove competing leaders

The trimming back or removal of all but one dominant, upright stem in a way that creates an apical crown angle of less than 90°. Competing stems should be trimmed well back to a side branch showing strong horizontal growth patterns or should be removed to just above the branch collar and branch bark ridge.

## Reduce end weight

The reduction of the crown of a tree by trimming back the branch tips by the described amount. Branch tips should be trimmed back to a suitable lateral twig or branch (in strict accordance with the recommendations contained in BS3998:2010, Tree Work, in a way that maintains the general crown characteristics of the tree and its species. **In all cases, no branch, limb or trunk greater than 100mm diameter shall be cut in the process of reducing end weight.** 

#### **Re-form Crown**

The carrying out of such trimming and branch removal as is necessary to create (or recreate) a tree crown architecture capable of supporting additional tree growth and that complies with the normal crown form for that species. **In all cases, no branch, limb or trunk greater than 100mm diameter shall be cut in the process of reducing end weight.** 

## **Topping, Re-Pollarding, Re-Coppicing**

The removal of all growth back to the required height. In most circumstances, it will not be possible to trim back to a suitable lateral branch and, because of this; cuts should be cleanly executed and should produce a sloping surface that will not collect water.

## **Prune as per Belfast Street Tree**

The complete pruning of a tree, which is a combination of crown reduction, crown lifting and crown thinning in a way that preserves the characteristics of the tree and its species. All growth removed during pruning must be taken back to an appropriately sized lateral branch, twin or bud to leave an acceptable crown form. <u>In all cases, no branch, limb or trunk greater than 100mm diameter</u> shall be cut in the process of reducing end weight.

#### **Retrenchment Pruning**

The phased reduction of the crown of veteran and old pollarded trees, removing or reducing end weight in the upper crown and spreading branches to emulate the natural decline of tree crowns with age. In most circumstances, it will not be possible to trim back to a suitable lateral branch and, because of this; cuts should be cleanly executed and should produce a sloping surface that will not collect water.

## Fell

The complete felling of a tree in a safe manner, leaving a smoothly surfaced stump that is cut as close to ground level as is possible

#### Any other terms used

If he is any doubt, the tree surgeon should contact Dr Philip Blackstock on 02825 821202 or 07767 393075 for clarification of these or any other terms used in the attached tree survey report sheets.

#### Statement of truth

I Dr Philip Blackstock confirm that I have made clear which facts and matters referred to in this report are within my own knowledge and which are not. Those that are within my own knowledge I confirm to be true. The opinions I have expressed represent my true and complete professional opinions on the matters to which they refer.

Signed:



21st January 2023

#### **QUALIFICATIONS**

National Diploma of Horticulture (R.H.S) Inter.

Diploma in Industrial Management

M.Sc. in Environmental Management (A Field Survey of Unmanaged Roadside Cuttings in South Antrim)

D.Phil. in Forestry (Broad-Leaved Tree and Shrub Invasion of Conifer Plantations in Ireland)

Professional member of the Arboricultural Association Registered Forestry Consultant with the Irish Forest Service

#### **EMPLOYMENT**

1996 to present

Arboricultural and Woodland Consultant

Duties include carrying out tree and vegetation surveys and providing tree and woodland management plans, completing reports and liaising with clients, providing court appearances etc. for public and private clients.

#### ARBORICULTURAL AND FORESTRY EXPERIENCE AND EXPERTISE

I have carried out surveys and produced reports on the health, condition, amenity value and landscape value of more than 250,000 trees since 1983. Since 1996 I have been fully employed as an Arboricultural and Forestry Consultant. Clients have now included most of the Local Authorities, Health Trusts and Government Departments within Northern Ireland. Private clients have included Solicitors, Architects and Developers. I have also lectured, to foundation degree level, on arboriculture and forestry.

I have provided expert opinion (including Court appearances) for many clients involved in litigation or in planning appeals since 1996. Topics covered by these opinions have included the predictability of failure in trees, amenity and financial evaluation of damage to trees, evidence of subsidence caused by trees, evidence of unsafe tree surgery practices leading to injury, and tree related evidence in boundary and planning disputes.

I have maintained a research interest in the effects of environmental influences on tree and shrub regeneration in Ireland and on the development of woody biodiversity in recently planted woods. I have also a research interest in the distribution of and environmental influences on deciduous tree diseases, tree stability and in the incidence of dangerous roadside trees.

## **Dr Philip Blackstock**



## Blackrock Dart To Park Scheme

## Tree Survey Summary & Impacts - As a Quantum Impact recommendation

To be removed to facilitate these developments To be retained with maintenance/mitigation required. No impact

Totals
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Totals

	Cond	ition as per Tree S	Survey	
Count (Total)	Good	Fair	Poor	Dead
31	2	14	10	5
5	0	4	1	0
3	0	3	0	0
39	2	21	11	5

T		
Tree Survey Summar	& Impacts - As a Percentage of Scheme 1	otai

Impact recommendation

To be removed to facilitate these developments To be retained with maintenance/mitigation required.

No impact

Count (Total)	
79%	
13%	
8%	
100%	

	Condition as per Tree Survey														
Total)	Good	Fair	Poor	Dead											
%	5%	36%	26%	13%											
%	0%	10%	3%	0%											
ó	0%	8%	0%	0%											
%	5%	54%	28%	13%											

Tag	Species Height		Stem	Cro	own sp	read (	(m)	Crown	_	Ge	neral Observ	ations						_
No.	Species	(m)	Diameter (mm)	N	E	s	w	Clearance (m)	Age	Crown form	Condition	Defect	Obstacle	Action	ULE	Category	Priority	Target
G1	Holm oak	13	420	5	5	5	5	1	ΥM	Multi stem	Fair	Excessive deadwood	Path, Wall	Crown clean, Crown lift to 2.4m Over path, Fell dead or dying stems, Clear back from wall or fence	>40	<i>B1</i>	Routine	Medium, path or lawn
T2	Rowan	0	120	0	0	0	0	0	1	0	Dead	Dead	0	Fell	<1	U	Medium	Medium, path or lawn
Т3	Sycamore	9	220	2	5	2	0	2	Υ	2 stems from 1.0m, One sided crown	Fair	None	None	No action is required	>40	<i>B1</i>	Not applicable	Medium, path or lawn
T4	Whitebeam	8	220	4	3	1	0	3	АМ	Multi stem from 2.0m, One sided crown	Fair	None	None	No action is required	20 to 40	B1	Not applicable	Medium, path or lawn
T5	Black pine	15	360	2	2	2	2	5	ΥM	Single stem	Good	None	None	No action is required	>40	A1	Not applicable	Low, unmanaged or farm land
T6	Black pine	6	110	1	0	2	1	3	Υ	2 stems from 2.0m	Poor	Thinning crown, Suppresse d	None	Monitor for death	10 to 20	C1	Routine	Medium, path or lawn
Т7	Himalayan birch	0	100	0	0	0	0	0	-	0	Dead	Dead	0	Fell	<1	U	Medium	Medium, path or lawn
G8	Himalayan birch	12	170	3	3	3	3	2	YM	Single main stem with heavy side branches	Fair	None	Path	Crown lift to 2.4m Over path	20 to 40	B1	Routine	Medium, path or lawn
Н9	Portugal laurel	7	120	4	4	4	4	1	АМ	Multi stem	Fair	Thinning crown	Path	Crown lift to 2.4m Over path, Maintain as hedge	>40	B1	Routine	Medium, path or lawn
T10	Holm oak	10	230	2	3	2	2	2	SM	Single main stem with heavy side branches	Fair	None	None	No action is required	>40	B1	Not applicable	Low, unmanaged or farm land
T11	Holm oak	11	270	6	6	1	5	2	АМ	Multi stem from 2.0m, Spreading crown	Fair	Excessive end weight	None	Reduce end weight in side branches by 2.0m	0	В1	Routine	Medium, path or lawn

ULE: Estimated and approximate Useful Life Expectancy

Tag		Height	Stem	Cro	own sp	read (	(m)	Crown		Ge	neral Observ	vations		_				
No.	Species	(m)	Diameter (mm)	N	E	s	w	Clearance (m)	Age	Crown form	Condition	Defect	Obstacle	Action	ULE	Category	Priority	Target
T12	Russian Olive	6	270	0	0	9	7	1	М	2 stems from 1.0m, One sided crown, Leaning	Fair	Excessive end weight	Path	Crown clean, Crown lift to 2.4m Over path, Reduce end weight in top and side branches by 2.0m	20 to 40	<i>B1</i>	Medium	Medium, path or lawn
T13	Norway maple	0	160	0	0	0	0	0	ı	0	Dead	Dead	0	Fell	<1	U	Medium	Low, unmanaged or farm land
T14	Birch	0	330	0	0	0	0	0	-	0	Dead	Dead	0	Fell	<1	U	Medium	Low, unmanaged or farm land
T15	Birch	10	150	1	2	3	1	5	М	Single main stem with heavy side branches	Dying	Almost dead	None	Fell	1 to10	U	Medium	Medium, path or lawn
T16	Maritime pine	15	430	2	3	4	4	4	АМ	Single stem	Good	None	None	No action is required	>40	A1	Not applicable	Medium, path or lawn
T17	Sycamore	0	220	0	0	0	0	0	-	0	Dead	Dead	0	Fell	<1	U	Medium	Medium, path or lawn
T18	False acacia	14	240	2	5	5	2	3	АМ	3 stems from the ground	Fair	Thinning crown	None	Crown clean, Monitor for death	10 to 20	<i>B1</i>	Medium	Medium, path or lawn
G19	False acacia	14	180	1	6	6	3	3	АМ	Multi stem, One sided crown	Fair	Thinning crown	None	Crown clean	10 to 20	<i>B1</i>	Routine	Medium, path or lawn
T20	White poplar	17	350	4	6	4	1	5	М	Upright crown, Single stem to 8.0m	Poor	Excessive deadwood	None	Crown clean, Reduce end weight in top and side branches by 2.0m	10 to 20	C1	Medium	High, road or building
T21	White poplar	14	500	3	1	2	6	5	М	2 stems from 1.0m, Upright crown, Leaning	Poor	Excessive deadwood, Bark death, Target cankers	None	Crown clean, Reduce end weight in top and side branches by 2.0m, Monitor for death	1 to10	C1	Medium	Medium, path or lawn

Tag		Height	Stem	Cro	own sp	oread (	(m)	Crown		Ge	neral Obser	vations		Action UL				
No.	Species	(m)	Diameter (mm)	N	E	s	w	Clearance (m)	Age	Crown form	Condition	Defect	Obstacle	Action	ULE	Category	Priority	Target
G22	False acacia	12	320	0	5	6	3	2	М	2 stems from The ground, Leaning	Poor	Excessive deadwood, Root plate failure	None	Fell	1 to10	U	Medium	Medium, path or lawn
G23	False acacia	13	200	5	5	5	5	3	AM	Multi stem	Poor	Excessive deadwood	None	Crown clean	10 to 20	C1	Routine	Medium, path or lawn
G24	Portugal laurel	6	170	4	4	4	4	0	AM	Multi stem	Fair	None	None	No action is required	20 to 40	<i>B1</i>	Not applicable	Medium, path or lawn
T25	Sycamore	8	40	3	0	2	3	1	Υ	Single stem, One sided crown	Fair	None	Buildings	Fell	20 to 40	U	Routine	High, road or building
G26	Plum	9	180	5	5	5	5	2	М	Multi stem, Spreading crown	Fair	Excessive deadwood	Buildings	Crown clean, Clear back from building, Fell dead or dying stems	10 to 20	В1	Medium	High, road or building
G27	Russian Olive	6	240	1	1	6	4	0	М	2 stems from The ground, Spreading crown, One sided crown	Fair	Root plate failure	Path	Crown clean, Crown lift to 2.4m Over path	10 to 20	В1	Routine	Medium, path or lawn
G28	False acacia, Sycamore	13	170	3	3	3	3	3	AM	Multi stem	Poor	Excessive deadwood	None	Crown clean, Fell dead or dying stems	20 to 40	C1	Medium	Medium, path or lawn
T29	Sycamore	10	180	2	1	2	3	2	SM	2 stems from 1.0m	Poor	Thinning crown	None	Crown clean, Monitor for death	10 to 20	C1	Routine	Low, unmanaged or farm land
Т30	Russian Olive	10	310	7	7	5	3	2	М	Multi stem from 2.0m, One sided crown, Leaning	Poor	Root plate failure, Basal damage, Excessive end weight	None	Fell	1 to10	U	Medium	Low, unmanaged or farm land

Tag	Species	Height	Stem Diameter	Cro	own sp	read (	(m)	Crown Clearance	A	Ge	neral Obser	vations		Action	ULE	Catazani	Priority	Townst
No.	Species	(m)	(mm)	N	E	S	w	(m)	Age	Crown form	Condition	Defect	Obstacle	Action	OLE	Category	Priority	Target
T31	Russian Olive	8	380	6	3	0	5	1	М	Single stem, One sided crown, Leaning	Poor	Root plate failure, Excessive end weight	None	Crown clean, Reduce end weight in top and side branches by 2.0m, Monitor for death	10 to 20	C1	Routine	Low, unmanaged or farm land
T32	Holm oak	13	200	3	3	3	3	3	SM	Multi stem	Fair	None	None	Thin stems as appropriate	>40	<i>B1</i>	Routine	Medium, path or lawn
T33	Rowan	8	220	2	3	3	3	2	М	Multi stem from 2.0m	Fair	None	None	No action is required	20 to 40	<i>B1</i>	Not applicable	Medium, path or lawn
T34	Pear	8	300	2	4	2	4	0	М	3 stems from 1.0m, Spreading crown	Fair	None	None	0	20 to 40	<i>B1</i>	Routine	Medium, path or lawn
T35	Scholar's Tree	5	80	1	1	1	1	2	АМ	2 stems from The ground, 3 stems from the ground	Poor	Thinning crown	None	Monitor for death	10 to 20	C1	Routine	Low, unmanaged or farm land
T36	Birch	11	270	5	5	3	5	2	М	Multi stem from 3.0m	Fair	Bark death	None	No action is required	20 to 40	<i>B1</i>	Not applicable	Medium, path or lawn
37	Not used	0	0	0	0	0	0	0	-	0	0	0	0	0	0	-	0	0
T38	Holly	12	370	5	4	5	5	2	М	Single stem to 6.0m	Fair	Thinning crown	Path	Crown clean, Crown lift to 2.4m Over path, Monitor for death	10 to 20	B1	Routine	Medium, path or lawn
T39	Sycamore	18	720	8	7	3	5	5	М	Single stem to 8.0m	Fair	Forming cavities	None	Crown clean	>40	<i>B1</i>	Routine	High, road or building
T40	Sycamore	20	680	4	5	7	5	2	М	Single stem to 8.0m	Fair	Basal rot, Basal damage	Buildings	Reduce end weight in top and side branches by 1.0m, Clear back from building	>40	B1	Routine	High, road or building