

CLONASLEE FLOOD RELIEF SCHEME

Appendix 17.2: Arboricultural Report



Tree Experts in the Built Environment



John Morris Arboricultural Consultancy

Tree Risk Managem	nent	Trees, Planning & Development	Expert Witness	Arboricultural Clerk of Works	Government Support
Client:	Clonas	slee Flood Relief Scheme	2		
Site:	Clonas	slee			
	Count	y Laois		ARBORICULTU	RAL
	Irelan	b		IMPACT ASSESSM	1ENT &
				METHOD STATE	MENTS
Date:	$25^{th} M$	ay 2024			
Ref:	23-52	7			
Version:	4				





DOCUMENT CONTROL SHEET

Originating Author:	Date:	Version	Notes:
ML	16.04.24	1	Original
Reviewed By:			
RC	17.04.24	1	Quality Control
Approved for Issue By:			
ML	02.05.24	2	Final Document for Client
ML	13.05.24	3	Client Revisions
ML	25.05.24	4	Client Revisions

Prepared by:

John Morris Arboricultural Consultancy Ltd	*	. 44 (0) 2020 202 402
Executive Suites		+44 (0) 7830 793 487
Weavers Court	\bowtie	info@johnmorristrees.com
Belfast		-
BT12 5SH		www.johnmorristrees.com
in f 🞯		

Prepared for:

RPS & Laois County Council

COPYRIGHT ©

The copyright of this document remains with John Morris Arboricultural Consultancy Ltd. Its contents must not be copied or reproduced in whole or in part for any purpose without the written consent of John Morris Arboricultural Consultancy Ltd.



Purpose of Document

This report provides an assessment of trees on land at four locations in the town of Clonaslee in County Laois, in accordance with BS5837:2012 *Trees in relation to design, demolition and construction* – *Recommendations*.

It provides an overview of the constraints posed by trees on or within influencing distance of each site and assesses the impacts of the proposal on trees.

It includes:

- A **Tree Schedule** that provides information for each tree;
- A Tree Constraints Plan that illustrates the location and constraints posed by trees;
- An **Arboricultural Impact Assessment** that considers the impacts of the proposal to those trees;
- An **Arboricultural Method Statement** that outlines how retained trees will be protected during works, and;
- A **Tree Impact & Protection Plan** that illustrates the impact of the proposal upon trees and protection measures that should be adopted during works.

The information contained within this report is intended to provide Laois County Council with sufficient information to assess tree related issues associated with the proposal.

Executive Summary

The proposal is for flood defence schemes at three locations, and include an embankment and debris trap at Brittas Wood, wall sheetpile and concrete backfill at Chapel Street, and embankment and wall at Tullamore Road & ICW. There will also be site compounds in these locations, and at one other location on lands west of the road by the Brittas Wood main entrance.

A tree survey of each location was undertaken in accordance with BS5837:2012 *Trees in relation to design, demolition and construction – Recommendations.* The survey identified a number of mature trees at each location.

The nature of flood defence schemes at Brittas Wood and Chapel Street mean there is little flexibility in terms of design iteration, and these works will result in the removal of 33 trees, with the suitability of retaining seven other mature trees to be assessed on site during construction by an arboriculturist.

Three areas of garden hedge each around linear metres and a single tree will require removal for movement between Chapel Street, and the site compound on lands to the north of residential dwellings.

At Tullamore Road & ICW slight realignment of the embankment has enabled all trees but a single mature beech (T51) and part of one group to be retained.

The location of site compounds including working space and access between sites, have also been considered to minimise the impacts on trees.



The following measures are required to ensure the protection of trees and woodlands during works:

- Tree Protective Fencing
- Construction Exclusion Zones



CONTENTS

1.	INTRODUCTION	7
	INSTRUCTION	7
	SCOPE	7
	SITE	7
2.	TREE SURVEY	7
	Site Micit	7
		, Q
		o
		o
	AREA 2. CHAPEL STREET	o
	REA 5. TULLAMORE ROAD & ICW	0
	FILLIOGRAPHS	
3.	ARBORICULTURAL PRINCIPLES	10
	TREES AND DEVELOPMENT	10
	BELOW GROUND CONSTRAINTS	10
	IMPACTS OF CONSTRUCTION & DEVELOPMENT	10
	ROOT PROTECTION AREAS	10
	Above Ground Constraints	11
4.	PLANNING POLICY, STATUTORY CONSIDERATIONS & TREE LEGISLATION	11
	PLANNING POLICY	11
	LAOIS COUNTY DEVELOPMENT PLAN (2021-2027)	11
5.	ARBORICULTURAL IMPACT ASSESSMENT	14
	DEVELOPMENT PROPOSAL	14
	DESIGN PRINCIPLES	14
	ТНЕ ІМРАСТ	14
	AREA 1: BRITTAS WOOD	14
	AREA 2: CHAPEL STREET	15
	AREA 3: TULLAMORE ROAD & ICW	15
	SITE COMPOUNDS & CONSTRUCTION PHASE	15
	MAGNITUDE OF IMPACT	15
	MITIGATION AND IMPROVEMENTS	16
6.	ARBORICULTURAL METHOD STATEMENTS	17
	PURPOSE	17
	Key Responsibilities	17
	TREE PROTECTIVE FENCING	17
	SITE COMPOUNDS & FACILITIES	18
	SITE CRANES, PILING RIGS AND MACHINERY	18
	POLLUTION CONTROL.	18
	TEMPORARY GROUND PROTECTION	18



Excavations and Removal of Existing Surfaces	19
UPGRADING EXISTING SURFACES	19
7. ABOUT THE AUTHOR & LIMITATIONS	20
Authors Qualifications & Experience	20
Limitations	20

APPENDICES

Appendix 1: Tree Survey Criteria (BS5837:2012)	21
BS5837:2012 Assessment Criteria & Cascade Chart	22
APPENDIX 2 – CALCULATION OF THE ROOT PROTECTION AREA	23
Appendix 3 – Example of Tree Protective Fencing	25
APPENDIX 4 – EXAMPLE OF TREE PROTECTIVE SIGNS	27

ATTACHMENTS

DOCUMENT TITLE	DOCUMENT REFERENCE
TREE SCHEDULE	23-527-01
TREE CONSTRAINTS PLAN	23-527-02
TREE IMPACT & PROTECTION PLAN	23-527-03



1. INTRODUCTION

Instruction

1.1. Instruction was received from RPS on 9th January 2024 to undertake a tree survey and prepare an arboricultural report to in connection with a planning application for flood relief schemes and site compounds at four locations in Clonaslee, County Laois.

Scope

- 1.2. The survey has been carried out in accordance with BS5837:2012 *Trees in relation to design, demolition and construction Recommendations.*
- 1.3. The information collected during the survey has been used to prepare a report in connection with a planning application.

Site

1.4. The sites include Brittas Wood, Chapel Street, Tullamore Road & ICW and lands west of the road by the entrance to Brittas Wood (Figure 1).



Figure 1. Four survey locations in Clonaslee outlined in red.

2. TREE SURVEY

Site Visit

- 2.1. The tree survey was undertaken between 23rd and 25th January 2024.
- 2.2. Details of the survey methodology and assessment criteria can be found in Appendix 1.
- 2.3. A copy of the survey data can be found in the Tree Schedule (Ref: 23-527-01) attached to this report.
- 2.4. The extent of the tree survey has been marked on the Tree Constraints Plan (Ref: 23-527-



02) also attached to this report.

- 2.5. The tree survey considered all trees with potential to be impacted by proposals including those outside the application area, but within influencing distance.
- 2.6. The above ground constraints posed by canopy spread are plotted as a continuous line around the tree and shaded in the corresponding BS5837 retention category colour, whilst the below ground constraints posed by the Root Protection Area (RPA) have been plotted as a continuous magenta line with the text RPA inscribed.
- 2.7. The purpose of the tree survey is to provide information to the design team on the constraints posed by trees, allowing informed decisions to made that will avoid or reduce impacts on trees.
- 2.8. A dwg. topographical survey and OSi plan of the site area was provided by RPS. The position of trees is not recorded at several locations (including where main works are proposed) and therefore the position of these trees remains indicative.

Description of Trees

Area 1: Brittas Wood

2.9. This site lies either side of the main entrance track running south through Brittas wood, bordering the Clodiagh River to the east. It is a mature woodland comprising predominately of beech, oak and sycamore with a number of fine maiden specimens, and an understory comprising more recent planting of ash, oak and hazel as well as native, natural regeneration of holly, birch and rowan. A mature hedgerow runs along the field boundary to the west with a dense understory of holly and hazel and several mature boundary trees.

Area 2: Chapel Street

2.10. This site within the town centre adjacent to the Clodiagh River consists of early mature plantings of amenity trees including birch, alder and Norway maple, as well as an established group of large, mature Leylandii. A single line of semi-mature cherry in fair to poor health border the wall adjacent to the roadway. Lands within the private garden comprise a variety of fruit and ornamental trees near the house with mature belts of sycamore, beech, ash and Sitka spruce adjacent to the river as it heads downstream east and north.

Area 3: Tullamore Road & ICW

- 2.11. At this site, the Clodiagh River borders a mature woodland strip to the west dominated by sycamore and beech with several fine mature specimens and a native understory of alder, hazel, hawthorn and birch. The southern boundary of this field is lined by several overmature hawthorn while bordering the road, it is formed of a wide scrub/hedgerow group of willow, alder and a group of dead elm by the entrance gate. To the east of the river within the ICW, a linear group of willow and alder borders the riverbank and a group of semi/early mature willow, alder and ash have been planted on the grass verge.
- 2.12. A summary assessment of tree quality in the four locations is contained in Table 1.



John Morris Arboricultural Consultancy

Photographs



Figure 1. Mature woodland with more recently planted native understory adjacent to the surfaced path in Brittas Wood.



Figure 2. Ornamental shrubs and fruit trees bordering the wall within a private property between Chapel Street and Tullamore Road & ICW.



Figure 3. Amenity planting of birch, alder and cherry adjacent to the wall within the town centre on Chapel Street.



3. ARBORICULTURAL PRINCIPLES

Trees and Development

- 3.1. Trees provide a multitude of economic, environmental and social benefits to individuals and communities including (but not limited) to visual amenity and landscape value, ecosystem services and habitats for local wildlife. Trees can also hold historic and cultural importance by providing links to the past that create a sense of place and belonging.
- 3.2. They are living, self-optimising, mechanical organisms that grow in and react to the environment in which they are located and are capable of being wounded or infected by objects or other organisms that can cause a decline in health or result in death.
- 3.3. Development proposals that will impact trees should consider the value and contribution made by those trees, the impacts of development activity upon their health and an assessment of future conflicts that may arise between trees and the development proposal.

Below Ground Constraints

- 3.4. Soils contain organic and mineral material, air and water that provides a medium essential for root growth. The physical properties of soils including texture, porosity and bulk density can greatly impact the availability of water, nutrients and oxygen in the soil available to support the function and growth of tree roots. Protection of the soil environment in which trees grow is therefore essential to ensure tree vitality.
- 3.5. Tree roots provide support and anchorage and allow the uptake and transport of water, nutrients and oxygen for tree function and growth. Roots are commonly found in the upper 600-1000mm of soil, however depth can vary significantly depending on soil and local site conditions. Typically, tree root systems comprise a network of lateral roots that provide structural support and smaller fibrous roots that function in the uptake of water, nutrients and oxygen. Protection of the tree roots is therefore essential to ensure tree vitality.

Impacts of Construction & Development

3.6. The processes of construction including the movement of machinery and equipment near trees can cause soil compaction that can starve roots of oxygen and water, resulting in tree decline or death. Increasing ground levels near trees can cause similar impacts, whilst belowground soil excavations can damage root bark or lead to root severance and impair structural stability. Further impacts include (but are not limited to) contamination of soils by toxic substances such as cement or chemicals and root desiccation due to inadequate protection during exposure.

Root Protection Areas

- 3.7. In accordance with BS5837, the Root Protection Area (RPA) indicates the notional minimum area of ground around a tree deemed to contain sufficient roots and rooting volume to avoid adverse physiological or structural impairment and to support future tree function, growth and health.
- 3.8. The RPA is calculated in accordance with Section 4.6 of BS5837 and is summarised in Appendix2.
- 3.9. The RPA is plotted as a continuous circle centred on the base of the stem, however where pre-



existing site conditions such as the presence of built structures, changes in topography, soil type and structure or past management are likely to act as barriers, or alter normal distribution, BS5837 allows modifications to the shape of the RPA can be made based upon sound arboricultural assessment.

- 3.10. The default position should be that no development works occur inside RPAs, however in accordance with BS5837 when there is an overriding justification, it may be appropriate to implement specialist methods of construction or technical solutions that will reduce or eliminate the impact to roots and soil environments.
- 3.11. Additionally, where an area of RPA is lost, it should be demonstrated that the tree can remain viable with the area lost from encroachment compensated elsewhere contiguous with its RPA, based on the species, age, condition and past management of the tree, pre-existing site conditions and nature of operations proposed is undertaken.

Above Ground Constraints

3.12. Tree stems and crowns can restrict the availability of space on a development site that may result in conflicts between trees and the new built environment. The design and layout of a site should take into consideration the presence of tree canopies, as well as individual species characteristics and future growth requirements in order to create a harmonious relationship between trees and the new built environment.

4. PLANNING POLICY, STATUTORY CONSIDERATIONS & TREE LEGISLATION

Planning Policy

- 4.1. The National Planning Framework 'Project Ireland 2040' and National Development Plan (2021-2030) underpin planning policy across Ireland. These documents recognise the need to manage future growth in a planned, productive and sustainable way.
- 4.2. At the heart of Green Infrastructure Planning is to protect, preserve and enhance national capital by:

"protecting and valuing important and vulnerable habitats, landscapes, natural heritage and green spaces".

4.3. The sites fall within the jurisdiction of Laois County Council, which has a statutory obligation to ensure that provision is made for the protection of trees, woodlands and hedgerows under the Local Government Planning and Development Act (2000), through implementation of a Development Plan. The current plan for Laois is the Laois County Development Plan (2021-2027).

Laois County Development Plan (2021-2027)

4.4. The Laois County Development Plan (2021-2027) provides guidance for trees in relation to proposals of development as follows:

11.6 TREES, WOODLANDS AND HEDGEROWS



BNH 26 Protect individual trees, groups of trees and woodland in the interests of landscape conservation (including townscapes) and nature conservation as part of the development management process.

BNH 27 Protect existing hedgerows, particularly of historical and archaeological importance of townland boundaries, from unnecessary removal in order to preserve the rural character of the countryside ad promote biodiversity.

BNH 28 Ensure that hedgerow removal to facilitate development is kept to an absolute minimum and, where unavoidable, a requirement for mitigation planting will be required comprising a hedge of similar length and species composition to the original, established as close as is practicable to the original and where possible linking in to existing adjacent hedges. Native plants of a local provenance should be used for any such planting.

BNH 30 Ensure that hedgerow and mature tree removal to facilitate development is kept to an absolute minimum and, where unavoidable, a requirement for mitigation planting will be required comprising a hedge of similar length and species composition to the original, established as close as is practicable to the original and where possible linking in to existing adjacent hedges. Native plants of a local provenance should be used for any such planting.

DM BNH 4 MATURE TREES Where there are trees within an application site, or on land adjacent to it that could influence or be affected by proposed development (including street trees), the planning application must include a detailed submission prepared by a suitably qualified Arboriculturist in accordance with British Standard 5837: 2012 'Trees in relation to design, demolition and construction – Recommendations'. A Tree Management Plan shall be provided to ensure that trees are adequately protected during development and incorporated into the design of new developments.

DM BNH 5 HEDGEROWS In dealing with applications for new developments, the Planning Authority will have regard to the following:

a. Retention of a connected network of good quality hedgerows;

b. The value of hedgerows as green infrastructure (landscape, biodiversity, shelter, supporting services to agriculture/horticulture;

c. The avoidance of the unnecessary removal of hedgerows;

d. If it is necessary to remove a hedgerow, developers should be reminded of their obligations under the Wildlife Acts not to remove or interfere with them during the bird nesting season, between March 1st and 31st August. Also, replacement or compensatory planting of hedgerows using indigenous species such as whitethorn or blackthorn only will be required;

e. Proposals to integrate hedgerows into the layout of a new linear feature such as a road/ pedestrian/cycle track;



f. Depending on the potential risks of anti-social activity or requirements for a more garden look the margins of these new hedgerows/woodlands/new shrubberies could be planted with colourful non natives (for amenity) orspiny shrubs to deter vandals.

g. By occasionally mowing the grass margin of hedgerows (or part of it), they will look managed. As litter will accumulate in long grass along their margins arrangements will have to be made to carry outregular clean ups;

h. Encouragement should be given to develop a new linear feature of biodiversity value such as a hedgerow or dry stone wall, particularly if thistype of habitat is found adjacent to the development site;

i. The use of native tree and shrub species similar to those found in adjacent hedgerows in new or replacement hedgerows;

j. The wholesale removal of hedgerows to facilitate the achievement of adequate sightline visibility for one-off houses in the countryside will not be encouraged.

4.5. A review of *'Map 11.5 Significant Tree Groups'* which forms part of the Laois County Development Plan (2021-2027) confirms that trees within the sites are not identified as significant trees.



Map 11.5. Significant Tree Groups - Laois County Development Plan (2021-2027)



5. ARBORICULTURAL IMPACT ASSESSMENT

Development Proposal

5.1. The proposal is for flood defence schemes at three locations, including an embankment and debris trap at Brittas Wood, wall sheetpile and concrete backfill at Chapel Street, and embankment and wall at Tullamore Road & ICW. There will also be site compounds in these locations, and at one other location on lands west of the road by the Brittas Wood main entrance.

Design Principles

- 5.2. The proposal has been influenced by the tree cover on site where possible, however the nature works required at some locations has meant there is little flexibility in terms of design iteration to minimise impacts on trees.
- 5.3. The default position has been to avoid works within the canopy or RPA of any tree, however where this has not been possible due to other site constraints a hierarchy of mitigation has been applied in Figure 4.



Figure 4. Trees & Development Mitigation Hierarchy (John Morris Arboricultural Consultancy, 2019).

The Impact

5.4. The proposal will the removal of trees at Brittas Wood and Chapel Street.

Area 1: Brittas Wood

- 5.5. The proposed embankment will extend through the woodland adjacent to the existing footpath. The dimensions of the proposed embankment consist of 130m length and an average height of 0.44m with a crest width of 3.00m, maximum height is 0.67m crest slope of 1:3. The foundation base is 1.00m wide with a 1:1 slope.
- 5.6. The embankment runs through the Root Protection Area of several trees, which will result in significant ground and root disturbances. A total of 11 trees are recommended for removal due to the impact of the embankment.
- 5.7. The debris trap within the Clodiagh River will not impact any trees. An area of land alongside



the eastern riverbank should allow sufficient space for a works area for construction of the trap.

5.8. There are no trees illustrated on the dwg. topographical survey of Brittas Wood, and therefore the position of these trees remains indicative. Several mature trees in Brittas Wood could be impacted by embankment works and RPS have requested that these trees be shown as retained, and the suitability of retention to assessed on site during construction works by an arboriculturist. These trees can be identified by an orange canopy on the Tree Impact & Protection Plan.

Area 2: Chapel Street

- 5.9. The proposed works at Chapel Street include a wall sheetpile and wall with concrete backfill, which will be located along Chapel Street and extending into the landowner property to the east. The wall will be constructed at the back of the existing wall. The sheetpile will have 3.50 height and the wall over the sheetpile will have 1.70m height by 0.30m wide. It will be embedded in a footing 1.80m wide by 0.30m high and a length of approximately 200m.
- 5.10. The wall and associated works run through the RPA of amenity trees growing from a grass verge and private garden. A total of 28 trees will require removal for the wall sheetpile and construction activity/access.

Area 3: Tullamore Road & ICW

- 5.11. The proposed works at Tullamore Road & ICW include an embankment and wall.
- 5.12. There has some flexibility with the location of the embankment which has be realigned a few metres to the west of a mature treeline that runs along the Clodiagh River, to protect RPAs and spreading canopies. A single tree (T51) and part of a tree group will require removal in the north west corner of the site.
- 5.13. The proposed wall east of the river encroaches into the RPA of a single tree, however the incursion is marginal and confined to the outer edge of the RPA, and therefore not deemed to cause any impact to the tree's health or condition.
- 5.14. Table 3 provides a summary of the impacts on trees.

Site Compounds & Construction Phase

- 5.15. To allow movement between the Chapel Road site and site compound on lands to the north, three sections of garden hedge each comprising around 5 linear metres and a single tree will require removal.
- 5.16. All site compounds, facilities, and routes to allow the movement of construction traffic and positioning of machinery must be sited beyond influencing distance of all retained tree RPAs and outside Construction Exclusion Zones (i.e. behind tree protection fencing).

Magnitude of Impact

5.17. The magnitude of impact as result of the proposal has been assessed by considering the BS5837 retention category and subcategory of trees to be removed (Table 1). The aim is to assess the



direct impacts on the existing tree population from an arboricultural perspective, but also the impact in terms of visual amenity, landscape value and contribution to the wider surrounding area.

5.18. The assessment does not look at impacts from an ecological perspective but may allow for high level observations to be made in terms of the relationship between trees and their contribution to green connectivity, which can offer ecological and biodiversity benefits including nesting, foraging and transport corridors for local wildlife.

Magnitude Category	Description of Impact
High	The proposal will require the removal of category A trees of high quality and able to offer a significant future contribution for at least 40 years. These trees are irreplaceable and may include specimen trees that are an excellent example of their species, notable, veteran or ancient trees or ancient woodland.
Medium	The proposal will require the removal of category B trees of moderate quality able to offer a substantial future contribution for at least 20 years. These trees may include those that provide amenity value and contribute to the character of the site and local area. These trees would be difficult to replace and new planting is likely to take a minimum of 15-25 years to provide satisfactory mitigation.
Low	The proposal will require the removal of category C trees of low quality able to provide a contribution for at least 10 years. These trees may include younger trees or those in poor health with a limited useful life expectancy. These trees should not be regarded as a significant constraint and could normally be easily with new better quality planting with benefits realised in under 5 years.
Negligible	The proposal will require the removal of category U trees of poor quality. These trees include those than cannot be retained in the context of current land use for longer than 10 years or pose a risk to persons or property due to decline.
None	The proposal will not require the removal of any trees.

Table 1. Magnitude of arboricultural impact (John Morris Arboricultural Consultancy 2020).

- 5.19. The proposal will require the removal of 34 trees and around 15 linear metres of garden hedge.
- 5.20. The magnitude of impact will be **moderate to high.**

Mitigation and Improvements

5.21. To help mitigate the magnitude of impact, it is recommended that new trees, hedgerow and other vegetation are planted in locations close to where trees are recommended for removal. The aim of new and replacement should be to increase species diversity and increase canopy cover in the local landscape to provide a future net-gain on the pre-development baseline.



6. ARBORICULTURAL METHOD STATEMENTS

Purpose

- 6.1. The purpose of this statement is to provide a system of working to ensure retained trees are protected at all times during construction. It should be read in conjunction with the Tree Impact & Protection Plan (TIPP) attached to this report.
- 6.2. A copy of this report must be made permanently available for the duration of the development. It can be:
 - Included in tender documents to identify and quantify tree protection and management requirements;
 - Used to plan timing of site operations to minimise the impact upon trees, and;
 - Referenced on site for practical guidance on how to protect trees.
- 6.3. The compliance of arboricultural method statements is a recommended as a condition of planning and is necessary to ensure the protection and vitality of retained trees.

Key Responsibilities

6.4. It is the responsibility of the main contractor to ensure that all site personnel fully understand the protection measures on the site, that tree protection measures are adhered to at all times, and that the project arboriculturist is contacted if there are any issues related to trees.

Tree Protective Fencing

- 6.5. A protective fence will be erected around retained trees, prior to the commencement of materials or machinery being brought onto site, removal of soil or any form of construction. The area within this fencing will form the construction exclusion zone (CEZ) and it will be afforded protection at all times. No works will be undertaken within this zone that causes compaction to the soil, severance of tree roots or damage to tree canopies.
- 6.6. The fence is to be sited in accordance with the Tree Impact & Protection Plan attached to this report.
- 6.7. Details of the minimum distance for fencing from trees can be found in the Tree Schedule attached to this report.
- 6.8. The precise form of fencing can vary provided it is fit for purpose and prevents damaging activities within the CEZ. For a proposal of this nature, a number of fencing/protection solutions will be required including the Heras 151 system of fencing, timber boards and hessian sacking wrapped in chestnut cleft pale.
- 6.9. Details of the various types of fencing is provided in Appendix 3.
- 6.10. The fence will have signs attached to it stating that it defines a CEZ and that no works are permitted beyond it.
- 6.11. An example of a tree protection sign is provided in Appendix 4.
- 6.12. The protective fencing may only be removed following completion of all construction works.
- 6.13. The following principles will be adopted by site personnel within the CEZ during construction,



to ensure protection of retained trees:

- No level changes.
- No excavations.
- No fires.
- No use of herbicides.
- No storage of materials, machinery or access for construction workers.

Site Compounds & Facilities

6.14. Site compounds and facilities will be located outside of all RPAs and CEZs as identified on the TIPP.

Site Cranes, Piling Rigs and Machinery

6.15. The location of all drilling rig, supporting vehicles / equipment should be sited outside of RPAs to avoid soil compaction.

Pollution Control

6.16. Any storage or mixing station located outside of the construction exclusion zone will be located in a place that minimises the risk of contaminated runoff entering to prevent adverse physiological impacts on trees that may result from contact with rooting environments. This may be achieved by using a non-permeable membrane on the ground, surrounded by sandbags or sawdust to contain any spillage.

Temporary Ground Protection

- 6.17. Where it is not practical to protect RPAs by use of protective fencing, BS5837 allows for the fencing to be set back and the soil shielded by ground protection. A range of methods can be used including retaining existing hard surfaces or structures that already protect the soil, installing new temporary surfaces, or a combination of both. Whatever the choice of method, the end result must be that the underlying soil remains undisturbed and retains the capacity to support existing and new roots.
- 6.18. If fences are to be set back on a temporary the following specifications are recommended for use as temporary ground protection to protect roots and soil.
- 6.19. For pedestrian traffic, a plywood board with a minimum thickness of 40mm should be laid on a minimum of 100mm deep woodchip, with geotextile membrane beneath.
- 6.20. For small plant machinery with a gross weight of up to 2 tonne, interlinking aluminium or composite tracks with sufficient load bearing capacity should be laid on a minimum of 150mm deep woodchip, with geotextile membrane beneath.
- 6.21. For heavy machinery with a gross weight of up to 3.5tonne, interlinking aluminium or composite track with sufficient load bearing capacity should be laid over a minimum layer of 200mm deep woodchip, with a geotextile membrane beneath.
- 6.22. For weights above 3.5tonne a specialist temporary ground protection should be used that is capable of both supporting the required loads whilst providing protection to RPAs.



- 6.23. Any temporary protective surfaces must remain in place until all construction activity is finished.
- 6.24. Upon completion of construction works, the temporary ground protective measures should be removed working backwards from on top of the system. This will need to be done carefully ensure that there is no excavation or compaction of the original surface or change in ground levels.
- 6.25. Once this material has been removed vehicular access to this part of the site will not be permitted.

Excavations and Removal of Existing Surfaces

- 6.26. All excavation must be carried out carefully using spades, forks and trowels, taking care not to damage the bark and wood of any roots. Specialist tools for removing soil around roots using compressed air such as an Air Spade may be an appropriate alternative to hand digging, if available.
- 6.27. All soil removal must be undertaken with care to minimise the disturbance of roots beyond the immediate area of excavation. Where possible, flexible clumps of small roots, including fibrous roots, should be retained if they can be displaced temporarily or permanently beyond the excavation without damage.
- 6.28. If digging by hand, a fork should be used to loosen the soil and help locate any substantial roots. Once the roots have been located the trowel should be used to clear the soil away from them without damaging the bark. Exposed roots that are to be removed should be cut cleanly with a sharp saw or secateurs 100-200mm behind the final face of the excavation.
- 6.29. Roots temporarily exposed must be protected from direct sunlight, drying out and extreme temperatures by appropriate covering. Roots greater than 25mm in diameter should only be cut in exceptional circumstances. Roots greater than 100mm in diameter should only be cut after consultation with the project arboriculturist.

Upgrading Existing Surfaces

- 6.30. Where upgrading of existing hard surfaces is required, the preferred option will be to leave the surface in place and install the new surface specification on top.
- 6.31. If the retained surface is impermeable, it may be appropriate to remove or puncture sections to create a more favourable environment for roots beneath, before the new surface is laid, through consultation with the project arboriculturist.
- 6.32. Where the existing surface is to be removed or upgraded, the surface layer should be excavated down the existing subbase and the new surface specification installed on top, to prevent any damage to roots beneath.
- 6.33. It is recommended that where possible, new and upgraded hard surfaces should be porous (e.g. permeable brick paving, porous resin bound aggregate or tarmac) to allow the flow or water and oxygen to roots. Wet concrete should only be poured if an impermeable geotextile fabric has first been installed to prevent soil contamination from toxic leachate.
- 6.34. New surfaces and upgraded surfaces should be set back from the base of stems by a minimum



of 500mm to allow space for future growth and minimise the risk of distortion with new surface.

7. ABOUT THE AUTHOR & LIMITATIONS

Authors Qualifications & Experience

7.1. This report has been written by John Morris, Director and Principal Arboricultural Consultant at John Morris Arboricultural Consultancy Ltd. John has a First Class BSc (Hons) in Housing (Ulster University) and a Post Graduate Diploma (UK NQF Level 7) in Arboriculture & Urban Forestry (Myerscough College & University of Central Lancashire). John has worked in the housing, development and arboricultural sectors combined for over 15 years and regularly undertakes continuous professional development (CPD) in all areas of arboriculture and wider business administration. John is a Professional member of the Arboricultural Association (AA) and Associate member of the Institute of Chartered Foresters (ICF).

Limitations

- 7.2. This report is for planning purposes and is not a detailed assessment of the health and condition of trees, however where defects have been identified works have been recommended to ensure site safety.
- 7.3. This report does not take responsibility for the effects of extreme weather conditions, vandalism, accidents or any works to trees or site conditions that occur without the authors knowledge, or that are not recommended within this report.
- 7.4. Tools used during the assessment have been limited to a sounding mallet, probe or binoculars. No invasive or diagnostic equipment has been used, nor have any aerial inspections, belowground root investigations, or soil, leaf or root samples been taken for further testing or analysis.
- 7.5. Trees were assessed during visits conducted between 23rd and 25th January 2024 and the information gathered during the survey pertains to that moment in time.
- 7.6. The location of trees places reliance on the accuracy of the topographical survey unless otherwise caveated within the report.
- 7.7. All works recommendation as a result of the survey should be undertaken by a suitably qualified and insured arborist in accordance with BS3998:2020 *Tree Works Recommendations* to prevent any structural or physiological impairment to trees.



Appendix 1: Tree Survey Criteria (BS5837:2012)

The assessment of the trees has been carried out in accordance with the guidance provided in Annexe C of BS5837, which requires that any tree on or influencing distance of the site with a stem diameter of over 75mm at 1.5m above ground level be recorded.

Stem diameter measurements were taken using a girthing tape or Biltmore stick, and in accordance with Annexe D of BS5837.

Height, crown spread, and canopy clearance measurements are recorded in accordance with the measurement convention detailed in paragraph 4.4.2.6 of BS5837.

The trees are categorised in an order defined in **Table 1** of BS5837, a copy of which can be seen below in **Figure 1**, but which can be summarised as:

- **Category A** Trees of high quality and value in such a condition as to be able to make a substantial contribution for a minimum of 40 years.
- **Category B** Trees of moderate quality and value in such a condition as to make a significant contribution for a minimum 20 years.
- **Category C** Trees of low quality and value currently in adequate condition and able to remain until new planting can be established with a minimum useful life expectancy of 10 years, and young trees with a stem diameter less than 150mm.
- **Category U** Trees in poor structural condition or physiological decline that cannot be realistically retained in the context of current land use for more than 10 years.

Further subcategories 1-3 indicate the area(s) in which a tree or group retention value lies.

- Mainly arboricultural.
- Mainly landscape.
- Mainly cultural, including conservation.

Table 1 Cascade chart f	or tree quality assessment			
Category and definition	Criteria (including subcategories where a	ppropriate)		Identification on plan
Trees unsuitable for retention	(see Note)			
Category U Those in such a condition that they cannot realistically be retained as living trees in	 Trees that have a serious, irremediat including those that will become un reason, the loss of companion shelte Trees that are dead or are showing s 	Ale, structural defect, such that their early loss viable after removal of other category U trees ir cannot be mitigated by pruning) signs of significant, immediate, and irreversible	is expected due to collapse, (e.g. where, for whatever e overall decline	See Table 2
the context of the current land use for longer than 10 years	 Trees infected with pathogens of sig quality trees suppressing adjacent tr NOTE Category U trees can have existin can 4.5.7 	nificance to the health and/or safety of other ees of better quality g or potential conservation value which it mig	trees nearby, or very low ht be desirable to preserve;	
	1 Mainly arboricultural qualities	2 Mainly landscape qualities	3 Mainly cultural values, including conservation	
Trees to be considered for rete	ention			
Category A Trees of high quality with an estimated remaining life expectancy of at least 40 years	Trees that are particularly good examples of their species, especially if rare or unusual; or those that are essential components of groups or formal or semi-formal arboricultural features (e.g. the dominant and/or principal trees within an avenue)	Trees, groups or woodlands of particular visual importance as arboricultural and/or landscape features	Trees, groups or woodlands of significant conservation, historical, commemorative or other value (e.g. veteran trees or wood-pasture)	See Table 2
Category B	Trees that might be included in	Trees present in numbers, usually growing	Trees with material	See Table 2
Trees of moderate quality with an estimated remaining life expectancy of at least 20 years	category A, but are downgraded because of impaired condition (e.g. presence of significant though remediable defects, including unsympathetic past management and storm damage), such that they are unlikely to be suitable for retention for beyond 40 years; or trees lacking the special quality necessary to merit the category A designation	as groups or woodlands, such that they attract a higher collective rating than they might as individuals; or trees occurring as collectives but situated so as to make little visual contribution to the wider locality	conservation or other cultural value	
Category C Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150 mm	Unremarkable trees of very limited merit or such impaired condition that they do not qualify in higher categories	Trees present in groups or woodlands, but without this conferring on them significantly greater collective landscape value; and/or trees offering low or only temporary/transient landscape benefits	Trees with no material conservation or other cultural value	See Table 2

BS5837:2012 Assessment Criteria & Cascade Chart

John Morris Arboricultural Consultancy



Appendix 2 – Calculation of the Root Protection Area

Circle Radius

The circle radius has been calculated by obtaining the stem diameter (measured at 1.5m above the ground) in millimetres and multiplying it by 12. Where the tree is multi-stemmed, an average stem diameter is calculated by the following formula specified in section 4.6.1 (a) & (b) of BS5837.

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

```
\sqrt{(\text{stem diameter 1})^2 + (\text{stem diameter 2})^2 \dots + (\text{stem diameter 5})^2}
```

For trees with more than five stems (not illustrated in Annex C), the combined stem diameter should be calculated as follows:

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

This total is then divided by 1000 to provide a circle radius in metres.

RPA Areas

The RPA has been assessed according to the recommendations set out in section 4.6 of BS5837. It is calculated by multiplying the radius squared by $3.142 (\pi)$.

Length of sides of a square

Section 5.5.3 of BS5837 recommends that the ground protection and barriers should be shown as a polygon surrounding the stem of the tree. With a circle, the distance from the edge of the circle to the centre will remain constant, but with a square, the distance from the centre of the tree to the sides of the square is less than the distance to the corner of the square. The area of the square must remain the same as the area of the circle. In order to ensure that it is

the case, the length of side of the square is calculated at the square root of the RPA area.

Minimum barrier distance

This is the closest point that a side of the square can be to the centre of the tree.





Figure 1 illustrates the differences between a square and a circle in area. Where the distance from the centre of the tree to the corner of the square is greater than the radius of the circle (r), but the distance from the centre of the tree to the side of the square is greater than the radius of the circle (r), the total area will remain the same. The minimum barrier distance from the tree is calculated by taking the length of the side and dividing it by two.

Clarification note on the RPA radius

The RPA radius is not the automatic minimum distance of the tree protection. It is a notional figure for use as a means of calculating the actual area of the RPA. BS5837 clarifies this under Section 3.7 Root Protection Area (RPA) – layout design tool indicating the minimum area around a tree deemed to contain sufficient roots and rooting volume to maintain the trees viability, and where the protection of the roots and soil structure is treated as a priority.











Appendix 4 – Example of Tree Protective Signs







LEGEND Category A (Tree stem and canopy spread) Category B Category C Category U 3 Root Protection Area Existing Layout

115.9

NOTES

Construction Sites

Dose of Tree Survey tree survey has been carried out in accordanc BS5837:2012 Trees in relation to desig olition and Construction - Recommendations.

urpose is to illustrate the c

hedgerow positions place reliance cal survey. The position of trees a ey remains indicative.

ale is for planning purp

n should be read in colour an ompanying Tree Schedule.

S5837 Retention Categories

burpose of the tree categorization method is ntify the quality and value (in a non-fiscal sen the existing tree stock, allowing inform isions to be made concerning which trees shot

Category A Trees of high arboricultural quality and value in suc consument to make a significant contribution for minimum of 40 years.

Category B frees of moderate arboricultural quality and value i such condition to make a substantial contribution for a minimum of 20 years.

Category C Trees of low arboricultural quality and value currently in adequate condition and able to remain until new planting is established with a minimur useful life expectancy of 10 years, or trees with stem diameter of <150mm.





LEGEND



NOTES

Purpose of Tree Survey The tree survey has been carried out in accordanc with BS5837:2012 Trees in relation to design demolition and Construction - Recommendations.

e purpose is to illustrate the constr portunities posed by trees and hedgerov design team prepare a layout that is or the existing canopy cover on ai luencing distance of the site.

<u>Caveats</u> Tree and hedgerow positions place reliance on topographical survey. The position of trees and hedgerows not recorded on the topographical survey remains indicative.

cale is for planning purposes only

lan should be read in colour and i ccompanying Tree Schedule.

BS5837 Retention Categories The purpose of the tree categorization method is t identify the quality and value (in a non-fiscal sense w the existing tree stock, allowing informe decisions to be made concerning which trees shoul be removed or retained in the event of development occurring.

Category A Trees of high arboricultural quality and value in such concluton to make a significant contribution for a minimum of 40 years.

Category B Trees of moderate arboricultural quality and value in such condition to make a substantial contribution for a minimum of 20 years.

Category C Trees of low arboricultural quality and value currently in adequate condition and able to remain until new planting is established with a minimum useful life expectancy of 10 years, or trees with a stem diameter of <150mm.

Tree Constraints Plan		
PROJECT / SITE: Clonaslee Flood Relief Scheme - Area 1: Brittas Wood		
RPS Consulting UK & Ireland		
DRAWING REF:		
23-527-02		
REVISION:		
v1		
VI VI		
DATE:	SCALE:	
05.02.2024	1:500@A3	
DRAWN BY: CHECKED BY:		
JM JL		
This drawing and its contents are the property of John Morris Arboricultural Consultancy Ltd and must not be copied, reproduced or distributed without the consent of:		
John Morris Arboricultural Consultancy Ltd		
Email: info@johnmorristrees.com Mobile: +44 (0) 7830 793 487		











Category A Trees of high arboricultural quality and value in such condution to make a significant contribution for a minimum of 40 years.

Category B Trees of moderate arboricultural quality and value i such condition to make a substantial contribution fo a minimum of 20 years.

Category C Trees of low arboricultural quality and value currently in adequate condition and able to remain until new planting is established with a minimum useful life expectancy of 10 years, or trees with a stem diameter of <150mm.

Tree Constraints Plan		
PROJECT / SITE: Clonaslee Flood Relief Scheme - Area 2: Chapel Street		
RPS Consulting UK & Ireland		
DRAWING REF:		
23-527-02		
REVISION:		
v1		
VI VI		
DATE: SCALE:		
05.02.2024	1:500@A3	
DRAWN BY:	CHECKED BY:	
JM JL		
This drawing and its contents are the property of John Morris Arboricultural Consultancy Ltd and must not be copied, reproduced or distributed without the consent of:		
John Morris Arboricultural Consultancy Ltd Executive Suites, Weavers Court, Linfield Road, Belfast, B112 SGH		
Email: info@johnmorristrees.com Mobile: +44 (0) 7830 793 487 Web: www.johnmorristrees.com		



LEGEND Category A (Tree stem and canopy spread) Category B Category C Category U Root Protection Area Existing Layout Construction Sites

NOTES

Purpose of Tree Survey The tree survey has been carried out in accordance with BS5837:2012 Trees in relation to desig demolition and Construction - Recommendations.

The purpose is to illustrate the constraints a opportunities posed by trees and hedgerows, to he he design team prepare a layout that is considera of the existing canopy cover on and with nfluencing distance of the site.

Caveats Tree and hedgerow positions place reliance on topographical survey. The position of trees and hedgerows not recorded on the topographical survey remains indicative.

cale is for planning purposes only

Plan should be read in colour and in accompanying Tree Schedule.

BS5837 Retention Categories The purpose of the tree categorization method is t identify the quality and value (in a non-fiscal sense w the existing tree stock, allowing informe decisions to be made concerning which trees shoul be removed or retained in the event of development occurring.

Category A Trees of high arboricultural quality and value in such concluton to make a significant contribution for a minimum of 40 years.

Category B Trees of moderate arboricultural quality and value i such condition to make a substantial contribution fo a minimum of 20 years.

Category C Trees of low arboricultural quality and value currently in adequate condition and able to remain until new planting is established with a minimum useful life expectancy of 10 years, or trees with a stem diameter of <150mm.

Tree Constraints Plan		
Clonaslee Flood Relief Scheme - Area 2: Chapel Street		
RPS Consulting UK & Ireland		
DRAWING REF:		
23-527-02		
REVISION:		
v1		
V1		
DATE:	SCALE:	
05 02 2024	1.200@43	
05.02.2024	1.300@A3	
DRAWN BY:	CHECKED BY:	
JM	JL	
This drawing and its contents are the property of John Morris Arboricultural Consultancy Ltd and must not be copied, reproduced or distributed without the consent of:		
John Morris Arboricultural Consultancy Ltd Executive Suites, Weavers Court, Linfield Road, Belfast, BT12 SGH		
Email: info@johnmorristrees.com Mobile: +44 (0) 7830 793 487 Web: www.johnmorristrees.com		



LEGEND



NOTES Purpose of Tree Survey. The tree survey that been carried out in accordance with BSS837.2012. Trees in relation to design, demolition and Construction - Recommendations. The purpose is to illustrate the constraints and opportunities posed by trees and hedgerows, to help the design team prepare a layout that is considerate of the existing canopy cover on and within influencing distance of the site. Exercise The purpose is to illustrate the constraints and opportunities posed by trees and hedgerows, to help influencing distance of the site. Exercise Scale is for planning purposes only. Plan should be read in colour and in conjunction with accompanying tree Schedule. BTBE pring The Schedule. BTBE pring the design teach of these should be tree of the action of these should be read in colour and in conjunction with accompanying tree Schedule. BTBE pring the design that accontaining the schedule of a non-fiscal sense of the ender on the opergreement. Category A Trees of high arboricultural quality and value in a niminum of 40 years. Category C Trees of high arboricultural quality and value in a niminum of 40 years. Category C Trees of high arboricultural quality and value in a minimum of 40 years. Category C Trees of high arboricultural quality and value in unitame planting is established with a minintrus useful if expectancy of 10 years, or trees with a

TITLE: Tree Constraints Plan										
PROJECT / SITE: Clonaslee Flood Relief Scheme - Area 3: Tullamore Road & ICW										
RPS Consulting UK & Ireland										
DRAWING REF:										
23-52	DRAWING REF: 23-527-02									
REVISION:										
	1									
v	1									
DATE:	SCALE:									
05.02.2024	1:500@A3									
	U U									
DRAWN BY:	CHECKED BY:									
JM	JL									
This drawing and its contents are the propert and must not be copied reproduced	y of John Morris Arboricultural Consultancy Ltd or distributed without the consent of:									
John Morris Arboricultural Consultancy Ltd Executive Suites, Weavers Court, Linfield Road, Belfast, BT12 5GH										
Email: info@johnmorristrees.co Web: www.johr	m Mobile: +44 (0) 7830 793 487 amorristrees.com									



LEGEND



	NOTES										
	Purpose of Tree Survey The tree survey has been carried out in accordance with BSS37.2012 Trees in relation to design, demolition and Construction - Recommendations. The purpose is to illustrate the constraints and monthenilas need to trees and hadrowerus to bein										
	opportunities posed by tees and necgerows, to nep the design team prepare a layout that is considerate of the existing canopy cover on and within influencing distance of the site.										
	Caveats Tree and hedgerow positions place reliance on topographical survey. The position of trees and hedgerows not recorded on the topographical survey remains indicative.										
	Scale is for planning purposes only.										
	accompanying Tree Schedule.										
	BS8837 Retention Categories The purpose of the tree categorization method is to identify the quality and value (in a non-fiscal sense) up the existing tree stock, allowing informed decisions to be made concerning which trees should be removed or retained in the event of development occurring.										
	Category A Trees of high arboricultural quality and value in such consument to make a significant contribution for a minimum of 40 years.										
	Category B Trees of moderate arboricultural quality and value in such condition to make a substantial contribution for a minimum of 20 years.										
	Category C Trees of low arboricultural quality and value currently in adequate condition and able to remain until new planting is established with a minimum useful life expectancy of 10 years, or trees with a stem diameter of <150mm.										
	Category U Trees in poor physiological or structural condition that cannot realistically be retained in the context of current land use for longer than 10 years.										
Tre	e Constraints Plan										
	loo Flood Poliof Schom										
Area	3: Tullamore Road & IC	w									
CLIENT:											
RPS C	RPS Consulting UK & Ireland										
DRAWING REF:											

23-527-02

TITLE:

v1 CALE: 05.02.2024 1:500@A3 DRAWN BY: CHECKED BY: JM JL This drawing and its contents are the property of John Morris Arboricultural Consultancy Ltd and must not be copied, reproduced or distributed without the consent of: John Morris Arboricultural Consultancy Ltd Executive Suites, Weavers Court, Linfield Road, Belfast, BT12 5GH

Email: info@johnmorristrees.com | Mobile: +44 (0) 7830 793 487 Web: www.johnmorristrees.com

Client	RPS Consulting L	JK & Ireland																				1	
Project / Site	Clonaslee Flood F	Relief Scheme	1																	1			
Reference	23-527-01																						
Survey Date Abreviation	23rd-25th January Definition	/ 2024	Age Class					Physiological	Condition			Structural C	Condition		Category			U.L.E	Sub categor	у	and a		
н	Height (m)		Y (Young)	Newly plant	ed (<10 yrs o	old)		Good No d	bvious health	problems		Good	No visible defects	1	А	High value and conservation		40+	1	Mainly arboricul	Itural		
Stem Dia. C.C	Stem diameter (m Crown clearance	1m) (m)	SM (Semi-mature) EM (Early mature)	First third of Second third	f life expectan d of life expec	tancy	-	Fai Inter Poor Serie	vention may it ous ill health o	nprove health r dying	ih 🛛	Fair Poor	Defects may requi Dangerous or no r	ire intervention remedy	B	Moderate value and conservation Low value and conservation		20+ 10+	2	Mainly landscap Mainly cultural	96		
L.B.H	Lowest (significan	t) branch height (m)	M (Mature)	Full age for	species	-				1			-		U	Not suitable for retention		<10					
L.B.D ULF	Direction of lowes	t (significant) branch fe expectancy (vrs)	V (Veteran)	Ancient cha	expectancy &	& in decline	alue	_	Pr	efix				G - Group H	- Hedgerow V	V - Woodland P - Tree is on private land "Tree is not on topographical survey and therfore position remains in	indicitive # Measurements estimated (tree is inacces	ssible)					
			r (r annag													· · · · · · · · · · · · · · · · · · ·						1	
Tree No.	Tag No.	Species	Botanical Name	H (m)	Stem	No of	Crov	wn Spread (m)	C.C	L.B.H	L.B.D	Age	Physiological	Structural	Comments	Recommendations	U.L.E	Cat.	RPA (m2)	RPA Radial	RPS Design Comments	Updated Recommendations
			-		Dia.	Otenna		·		w (iii)	(,			Area 1: Brittas V	Vood						uistance (iii)		
1*	0601	Beech (Common)	Fagus sylvatica	28	510	1	4	7 5	8	14	8	West	EM	Good	Good	Two leaders from 4m forming part suppressed spreading crown, from river bank.	None	40+	A1	113	6		
				_			+			_						Single stam forming not suppressed careoding crown, doodwood<50mms, hard surfacing to bridge within						Embooliment tenners to sore dig at this and	
2*	0603	Beech (Common)	France subjection	37	540							West		Cond	Cand	RPA, from river bank.	Foll to facilitate proposal	40.	.1	137	-	No Justification for felling the tree	Do not fell
2	0002	Beech (Common)	rugus sylvatica	27	540	1 ¹	Ů	, ,		2	1	west	EIVI	6000	Good		Pen to facilitate proposal.	407	~1	157	, ,	Tree supported for bat reacting potential	Construction to follow tree protection method statement
3*	0603	Beech (Common)	Fagus sylvatica	6	190	1	3	3 3	4	2	3	West	SM	Good	Good	Two leaders from 2m forming spreading crown, ivy at base, from track edge.	Fell to facilitate proposal.	10+	C1	18	2	Embankment tapers to zero dig at this end.	
							1 1															No Justifcation for felling the tree	Do not fell
																						Tree surveyed for bat roosting potential	construction to follow arec protection method statement
4*	0604	Sessile Oak	Quercus petraea	25	440	1	4	7 6	4	10	11	South	EM	Fair	Fair	Single ivy clad stem forming asymmetric spreading crown, storm damage secondary limbs, deadwood <50mmø, from river bank, surrounded by dense vegetation.	None	20+	B1	92	5		
5*	0605	Beech (Common)	Fagus sylvatica	17	460	1	5	5 5	6	2	2	South	EM	Good	Good	Single ivy clad stem forming spreading crown, surrounded by dense woodland	Fell to facilitate proposal.	20+	B1	92	5	Embankment tapers to zero dig at this end.	
																understory.						No Justification for felling the tree	Do not fell Construction to follow tree protection method statement
C *	0505	Devel (Common)	Constanting		500					<u> </u>		E at		Gud	Guid	Coloring for the second s	Toll to facilitate annual	10:		442		Tree surveyed for bat roosting potential	
6-	0606	Beech (Common)	Fagus sylvatica	23	500	1	Ů	4 6		2	3	East	EM	Good	Good	Single stem forming spreading crown, stem wound 2m fully occluded, from track edge.	Feil to facilitate proposal.	40+	AI	113	ь	No Justifcation for felling the tree	Do not fell
																						Tree supported for bat reacting potential	Construction to follow tree protection method statement
	0607			15	190	1	2	2 2	1	7	6	East	SM	Poor	Poor	Single stem forming heavily suppressed crown with small diameter dieback, deadwood <25mmø, two	Fell	<10	U	18	2	The surveyed for bat roosting potential	
7*		Sessile Oak	Quercus petraea													large lower stem wounds (one fully included, one with little occlusion), adjacent to bench, from woodland understory edge.							
8*	0608	Sessile Oak	Quercus petraea	25	710	1	9	10 5	6	10	9	East	м	Fair	Fair	Single ivy clad stem forming asymmetric spreading crown, dieback to lower limbs with	Remove dead limb 7mE over river bank clearing.	40+	A1	222	8	Embankment tapers to zero dig at this end.	
																deadwood<100mmø, large lower stem wound with good partial wound wood occlusion, from dense woodland understory by amenity clearing	Fell to facilitate proposal.					No Justifcation for felling the tree	Do not fell
																woodiand understory by uncerty cleaning.						Tree surveyed for bat roosting potential	construction to follow thee protection method statement
G9*	0609	Mixed species	N/a		150	1	,			,	1	Wort	SM	Good	Good	Dense woodland understory comprising young multistem hazel, sycamore, holly and beech, ivy clad, surrounded by dense vegetation, between river bank and surfaced	None	10+	~	10	2		
03	0003	wixed species	N/G	0	150	-	Ĺ	5.	, ,	-	1	west	Jiwi	6000	0000	track.	INDIE	107		10	2		
10*	0610	Sessile Oak	Quercus petraea	18	380	1	4	4 5	5	3	5	East	EM	Good	Good	Single ivy clad stem forming spreading crown, from track edge, surrounded by dense	Fell to facilitate proposal.	20+	B1	64	5	Embankment tapers to zero dig at this end.	Do not fell
																unacistory.						No source to realing the tree	Construction to follow tree protection method statement
11*	0611	Sessile Oak	Ouercus petraea	23	550	1	5	6 5	4	3	3	West	EM	Fair	Fair	Single swept stem forming spreading crown, ivy clad, reduced crown vitality.	None.	20+	B1	137	7	Tree surveyed for bat roosting potential	
										-						deadwood <25mmø, from river bank edge.							
12*	0612	Sycamore	Acer pseudoplatanus	14	310	2	3	3 4	2	3	3	East	EM	Poor	Fair	Two stems from base forming compact crown, ivy clad, crown dieback and poor vitality, secondary limb failure, surrounded by dense vegetation, from river bank edge.	None	10+	C1	41	4		
				_	<u> </u>		+		_	_	<u> </u>					Dance woodland understage comprising predominately conniced have with occasional successory holly.							
G13*	0613	Mixed Species Group	N/a	5	150	1	2	2 2	2	1	1	West	SM	Good	Good	birch and rowan, multistem from base, surrounded by	None	10+	C2	10	2		
14*	0614	Sycamore	Acer	4	150	3	1	1 1	1	1	1	West	SM	Good	Fair	dense vegetation. Coppiced at base forming three stems and compact crown, surrounded by dense	Fell to facilitate proposal.	10+	C1	10	2	Agree felling is necessary for the works	
45.8	0545	Constitution	pseudoplatanus		470		+			<u> </u>				Gud	Guid	vegetation, from track edge.	Toll to for the to open and	40.	<i>C1</i>			Anna fallen in anna fa bha maile	
15*	0615	Grey Willow	Salix cinéréa	4	1/0	3	2	2 4	2	1	1	West	SM	Good	Good	Three coppiced stools forming a homogenous spreading crown, surrounded by dense vegetation.	Fell to facilitate proposal.	10+	61	14	2	Agree felling is necessary for the works	
16*	0616	Sycamore	Acer pseudoplatanus	23	810	5	7	7 7	7	1	1	West	м	Fair	Poor	Multistem from base forming spreading crown, ivy clad, extensive bark death to interior of stem bases	Monolith to 2m from base. Fell to facilitate	<10	U	290	10	Agree felling is necessary for the works	
																bark, from river bank.	proposal.						
				_	<u> </u>		+		_	-						Single ivy clad stem forming spreading crown, dead primary stem over river, from river bank edge. Will	Monolith to 3m from base. Fell to facilitate					Agree felling is necessary for the works	
17*	0617	White Willow	Salix alba	18	400	1	5	6 3	5	10	8	West	м	Fair	Fair	have altered exposure when tree no. 19 removed.	proposal.	<10	U	72	5		
18*	0618	Beech (Common)	Fagus sylvatica	9	120	1	2	2 1	1	3	4	North	SM	Fair	Fair	Single stem forming suppressed crown, ivy at base, from river bank edge.	Fell to facilitate proposal.	10+	C1	7	2	Agree felling is necessary for the works	
19*	0619	White Willow	Salix alba	18	460	1	6	6 4	4	10	5	Fast	м	Fair	Poor	Single ivy clad stem forming part suppressed asymmetric spreading crown, failure of large primary dead	Monolith to 3m from base. Fell to facilitate	<10	U	92	5	Embankment and slipway are not encroaching on the tree or	
										-						limb at base with large wound exposing associated decay and Armillaria sp. rhizomorphs, from river bank	proposal.				-	its RPZ	Do not fell
																edge.						No Justification for felling the tree	Allow to decline naturally
20*	0620	Sessile Oak	Quercus petraea	24	500	1	6	4 6	6	10	6	West	EM	Good	Good	Single stem forming part suppressed spreading crown, ivy at base, from river bank	None	40+	A1	113	6		
21*	0621	Beech (Common)	Faaus sylvatica	19	340	1	6	4 4	7	2	5	North	EM	Good	Fair	edge. Single stem forming part suppressed spreading crown, ivy at base, from river bank	None	20+	B1	55	4		
																edge.							
22*	0622	Beech (Common)	Fagus sylvatica	23	400	1	5	5 5	5	5	5	West	EM	Poor	Poor	Two leaders from 4m forming spreading crown, extensive bark necrosis main stem 12m, large wound main stem 3m, crown dieback, from river bank edge.	Allow to decline naturally	<10	U	72	5		
23*	0623	Beech (Common)	Fagus svlvatica	24	400	1	6	6 6	5	3	3	South	EM	Good	Good	Single stem forming part suppressed spreading crown, ivy at base, from river hank edge	None	20+	81	72	5		
342	063.4	Roach (Commer)	France exhibition	24	310					-		West	54	Fair	Ech.	Sinds than forming supported strending story in the	Ness	20	0.1	41	4		
24*	0624	Beech (Common)	ragus sylvatica	24	310	1	,	5 4	6	8	8	west	EM	Fair	Fair	single stem forming suppressed spreading crown, ivy at base, main stem wound from large rubbing limb, from river bank edge.	None	20+	81	41	4		
25*	0625	Beech (Common)	Fagus sylvatica	22	300	1	6	3 5	6	8	8	West	EM	Fair	Fair	Two leaders from 3m forming part suppressed spreading crown, ivy clad, from river	None	20+	B1	41	4		
26*	0626	Beech (Common)	Fagus sylvatica	25	380	1	6	6 6	i 4	8	8	South	EM	Good	Good	uank edge. Single stem forming part suppressed spreading crown, ivy at base, from river bank	None	20+	B1	64	5		
172	0637	Rosch (Commer)	France extension	10	400		+ . +		-	-		West		Fair	Ech.	edge.	Ness	10	61	71	-		
27	0027		. agas synanca	10	400	1			,	,	,		Livi	1 811	1 dii	from river bank edge.	None	104		12			
G28*	0628	Mixed Species Group	N/a	9	240	1	4	4 4	4	1	1	West	EM	Good	Good	Dense woodland understory comprising holly, hazel, beech, sycamore and birch, from river bank	None	10+	C2	28	3		
29*	0629	Beech (Common)	Fagus sylvatica	28	600	1	8	8 8	8	3	3	North	м	Good	Good	Single stem forming broad spreading crown, stem wound 2m partial occlusion, ivy	None	40+	A1	163	7		
30*	0630	Beech (Common)	Faaus sylvatica	28	420	1	6	7 6	6	5	3	North	FM	Good	Good	clad, from dense woodland understory. Single inv. clad stem forming part suppressed spreading crown, from dense woodland	None	40+	A1	82	5		
																understory.							
31*	0631	Ash (Common)	Fraxinus excelsior	25	320	1	1	1 1	1	25	10	North	м	Dead	Dead	Dead stem and scaffold limbs within woodland.	Allow to decline naturally	<10	U	48	4		
32*	0632	Sycamore	Acer	15	220	1	4	4 3	3	2	5	East	EM	Good	Good	Single stem forming spreading crown, from dense woodland understory.	None	10+	C1	23	3		
33*	0633	Beech (Common)	Fagus sylvatica	30	600	1	7	7 5	8	5	4	South	м	Good	Good	Single stem forming broad spreading crown, ivy clad, from dense woodland	None	40+	A1	163	7		
24*	062.4	Hazel (Common)	Copylus qualicas	6	200		— , —	2	-	1	,	Far*	EM	Good	Good	understory. Multistem from base forming speaking strugg from used and under the	None	10:	C1	10	2		
34*	0634	nazer (conimon)	coryius aveilana	6	200	1	2	2 2	2	1	1	Edst	EM	Good	Good	munustern nom base forming spreading crown, from woodland understory edge.	None	10+	CI .	18	2		
35*	0635	Ash (Common)	Fraxinus excelsior	9	120	1	2	1 1	1	6	6	East	SM	Poor	Poor	single stem torming compact crown, crown dieback, Hymenoscyphus fraxineus early stage, from woodland understory edge.	Allow to decline naturally	<10	U	7	2		
36*	0636	Ash (Common)	Fraxinus excelsior	10	140	1	1	2 1	. 1	6	6	East	SM	Fair	Fair	Single stem forming compact crown, from woodland understory edge.	None.	10+	C1	10	2		
																Single ivy clad stem forming compact crown, crown dieback, Hymenoscyphus fraxineus early stage,							
37*	0637	Ash (Common)	Fraxinus excelsior	11	160	1	1	1 1	1	6	6	East	SM	Poor	Poor	from woodland understory edge.	Allow to decline naturally	<10	U	10	2		
201		Ach (Comm)	Complete and the							1.		Fact				Two ivy clad stems from base forming compact crown, crown dieback, Hymenoscyphus fraxineus	Allow to do the set of		1	22			
38*	0638	ASR (Common)	rraxinus excelsior	12	227	2	2	2 1	1	5	5	East	SM	Poor	Poor	early stage, from woodland understory edge.	Allow to decline naturally	<10	U	23	3		
39*	0639	Ash (Common)	Fraxinus excelsion	8	120	1	1	1 1	1	3	3	East	SM	Poor	Poor	Single ivy clad stem forming compact crown, crown dieback, Hymenoscyphus fraxineus early stage, from woodland understory edee.	Allow to decline naturally	<10	U	7	2		
																,	i i i i i i i i i i i i i i i i i i i						

	Project / Site	RPS Consulting	UK & Ireland																			the second
<th co<="" th=""><th></th><th>Clonaslee Flood</th><th>Relief Scheme</th><th colspan="3">=</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>1</th><th>Sec. 2</th></th>	<th></th> <th>Clonaslee Flood</th> <th>Relief Scheme</th> <th colspan="3">=</th> <th></th> <th>1</th> <th>Sec. 2</th>		Clonaslee Flood	Relief Scheme	=															1	Sec. 2	
Norme	Reference	23-527-01		1																		<u> </u>
Note Note Note Note	Survey Date Abreviation	23rd-25th Januar Definition	ary 2024	Age Class					Physiologica	Condition			Structural	Condition		Category			U.L.E	Sub categor	y	
Processor Processor Processor Processor <th< td=""><td>Н</td><td>Height (m)</td><td></td><td>Y (Young)</td><td>Newly plan</td><td>ed (<10 yrs ol</td><td>d)</td><td></td><td>Good No</td><td>bvious healt</td><td>n problems</td><td></td><td>Good</td><td>No visible defects</td><td></td><td>A</td><td>High value and conservation</td><td></td><td>40÷</td><td>1</td><td>Mainly arboricult</td><td>ural</td></th<>	Н	Height (m)		Y (Young)	Newly plan	ed (<10 yrs ol	d)		Good No	bvious healt	n problems		Good	No visible defects		A	High value and conservation		40÷	1	Mainly arboricult	ural
N N	Stem Dia. C.C	Stem diameter (r Crown clearance	(mm) e (m)	SM (Semi-mature) EM (Early mature)	First third of Second this	f life expectant d of life expect	cy tancy		Fai Inte Poor Seri	vention may ous ill health	improve heal or dying	ith	Fair Poor	Defects may requi Dangerous or no r	ire intervention emedy	B	Moderate value and conservation Low value and conservation		20+	2	Mainly landscap Mainly cultural	3
With With With With With With With With	L.B.H	Lowest (significa	ant) branch height (m)	M (Mature)	Full age for	species	The star at the se				Ť					U	Not suitable for retention		<10			
Norm Norm </td <td>U.L.E</td> <td>Minimum useful</td> <td>life expectancy (yrs)</td> <td>V (Veteran)</td> <td>Ancient cha</td> <td>aracteristics or</td> <td>conservation va</td> <td>alue</td> <td></td> <td>F</td> <td>refix</td> <td></td> <td></td> <td></td> <td>G - Group H</td> <td>- Hedgerow V</td> <td>Woodland P - Tree is on private land *Tree is not on topographical survey and therfore position remains in</td> <td>dicitive # Measurements estimated (tree is inacc</td> <td>essible)</td> <td></td> <td></td> <td></td>	U.L.E	Minimum useful	life expectancy (yrs)	V (Veteran)	Ancient cha	aracteristics or	conservation va	alue		F	refix				G - Group H	- Hedgerow V	Woodland P - Tree is on private land *Tree is not on topographical survey and therfore position remains in	dicitive # Measurements estimated (tree is inacc	essible)			
Note Note <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>																						
Model	Tree No.	Tag No.	Species	Botanical Name	H (m)	Dia.	No of Stems	N	wn Spread	m)	w (m)	L.B.H (m)	L.B.D	Age	Physiological	Structural	Comments	Recommendations	U.L.E	Cat.	RPA (m2)	distance (m)
Image	40*	0640	Ash (Common)	Fravinus excelsior	6	100	1	1	1	1	,	,	Fast	SM	Poor	Poor	Single ivy clad stem forming compact crown, crown dieback, Hymenoscyphus fraxineus early stage,	Allow to decline naturally	<10		5	1
1 1 </td <td></td> <td>0010</td> <td>Ash (5</td> <td></td> <td></td> <td>450</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><u> </u></td> <td></td> <td></td> <td></td> <td></td> <td>Finale store fermion encodes and for the store of the store store of the store sto</td> <td></td> <td>10</td> <td></td> <td>-</td> <td></td>		0010	Ash (5			450						<u> </u>					Finale store fermion encodes and for the store of the store store of the store sto		10		-	
D Desc D	41-	0641	Asn (Common)	Fraxinus exceisior	10	150	1	1	2		4	4	East	SM	Fair	Fair	Single stem forming compact crown, from woodiand understory edge.	None.	10+		10	2
No. No. </td <td>42*</td> <td>0642</td> <td>Sycamore</td> <td>Acer pseudoplatanus</td> <td>13</td> <td>230</td> <td>1</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>East</td> <td>SM</td> <td>Fair</td> <td>Fair</td> <td>Single stem forming spreading crown, from woodland understory edge.</td> <td>Fell to facilitate proposal.</td> <td>10+</td> <td>C1</td> <td>23</td> <td>3</td>	42*	0642	Sycamore	Acer pseudoplatanus	13	230	1	3	3	3	3	3	East	SM	Fair	Fair	Single stem forming spreading crown, from woodland understory edge.	Fell to facilitate proposal.	10+	C1	23	3
Model Model <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>																						
No. No. </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td>+</td> <td>-</td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td>Single ivy clad stem forming compact crown, crown dieback, Hymenoscyphus fraxineus early stage,</td> <td></td> <td></td> <td></td> <td></td> <td></td>								-		+	-		-				Single ivy clad stem forming compact crown, crown dieback, Hymenoscyphus fraxineus early stage,					
Image Image <th< td=""><td>43*</td><td>0643</td><td>Ash (Common)</td><td>Fraxinus excelsior</td><td>8</td><td>120</td><td>1</td><td>1</td><td>2</td><td>1</td><td>4</td><td>4</td><td>East</td><td>SM</td><td>Poor</td><td>Poor</td><td>from woodland understory edge.</td><td>Allow to decline naturally</td><td><10</td><td>U</td><td>7</td><td>2</td></th<>	43*	0643	Ash (Common)	Fraxinus excelsior	8	120	1	1	2	1	4	4	East	SM	Poor	Poor	from woodland understory edge.	Allow to decline naturally	<10	U	7	2
O O <td>44*</td> <td>0644</td> <td>Sessile Oak</td> <td>Quercus petraea</td> <td>8</td> <td>150</td> <td>1</td> <td>2</td> <td>2</td> <td>2</td> <td>3</td> <td>2</td> <td>East</td> <td>SM</td> <td>Good</td> <td>Good</td> <td>Single stem forming fastigiate crown, from woodland understory edge.</td> <td>None</td> <td>10+</td> <td>C1</td> <td>10</td> <td>2</td>	44*	0644	Sessile Oak	Quercus petraea	8	150	1	2	2	2	3	2	East	SM	Good	Good	Single stem forming fastigiate crown, from woodland understory edge.	None	10+	C1	10	2
No. No. <td>45*</td> <td>0645</td> <td>Sessile Oak</td> <td>Quercus petraea</td> <td>8</td> <td>150</td> <td>1</td> <td>2</td> <td>2</td> <td>2</td> <td>3</td> <td>2</td> <td>East</td> <td>SM</td> <td>Good</td> <td>Good</td> <td>Two leaders from 1m forming fastigiate crown, from woodland understory edge.</td> <td>None</td> <td>10+</td> <td>C1</td> <td>10</td> <td>2</td>	45*	0645	Sessile Oak	Quercus petraea	8	150	1	2	2	2	3	2	East	SM	Good	Good	Two leaders from 1m forming fastigiate crown, from woodland understory edge.	None	10+	C1	10	2
No. And And <td>46*</td> <td>0646</td> <td>Sessile Oak</td> <td>Quercus petraea</td> <td>6</td> <td>120</td> <td>1</td> <td>2</td> <td>1</td> <td>1</td> <td>3</td> <td>2</td> <td>East</td> <td>SM</td> <td>Fair</td> <td>Fair</td> <td>Single stem forming fastigiate crown, from woodland understory edge.</td> <td>None.</td> <td>10+</td> <td>C1</td> <td>7</td> <td>2</td>	46*	0646	Sessile Oak	Quercus petraea	6	120	1	2	1	1	3	2	East	SM	Fair	Fair	Single stem forming fastigiate crown, from woodland understory edge.	None.	10+	C1	7	2
Image										_	_						Young woodland group (planted 2005) comprising predominantly ivy clad ash,					
Image Mark Versul Second Image	G47*	0647	Mixed Species Group	N/a	12	180	1	3	3	3	5	5	East	EM	Fair	Fair	sycamore and sessile oak with hazel and holly understory, surrounded by dense vegetation.	None	10+	C2	14	2
Image: Problem in the problem in	48*	0648	Norway Spruce	Picea abies	18	300	1	3	3	3	6	6	South	EM	Fair	Fair	Single ivy clad stem forming compact crown, from dense vegetation.	None	20+	B1	41	4
A A Distribution A Distribution A A A B <	49*	0649	Hazel (Common)	Corylus avellana	8	320	5	4	4	i 4	3	1	North	EM	Fair	Fair	Multistem from base forming spreading crown, from hedgerow boundary bank.	Fell to facilitate proposal.	10+	C1	48	4
Image: bit with the state of the state o	50*	0650	Ash (Common)	Fraxinus excelsior	19	400	2	5	6	6	10	9	West	EM	Fair	Fair	Two ivy clad stems from 1m forming spreading crown, reduced crown vitality, from hedgerow boundary	Fell to facilitate proposal.	10+	C1	72	5
Image: Constraint of the second of the se	51*	0651	Hazel (Common)	Corvlus avellana	8	345	5	4	4	3	4	1	North	м	Fair	Fair	bank. Multistem from base formine spreadine crown. from hedeerow boundary bank.	Fell to facilitate proposal.	10+	C1	55	4
No. No. <td>52*</td> <td>0652</td> <td>Hazel (Common)</td> <td>Condus quallana</td> <td></td> <td>200</td> <td>-</td> <td>-</td> <td></td> <td></td> <td></td> <td>-</td> <td>North</td> <td>M</td> <td>Enir</td> <td>Enir</td> <td>Multistam from have forming revealing course surrounded by done upgetation</td> <td>Fall to facilitate proporal</td> <td>10+</td> <td></td> <td>41</td> <td></td>	52*	0652	Hazel (Common)	Condus quallana		200	-	-				-	North	M	Enir	Enir	Multistam from have forming revealing course surrounded by done upgetation	Fall to facilitate proporal	10+		41	
No. No. <td>52</td> <td>0032</td> <td>mazer (common)</td> <td>corylas avenana</td> <td>0</td> <td>300</td> <td></td> <td>1</td> <td>~</td> <td></td> <td>`</td> <td></td> <td>North</td> <td>M</td> <td>1 dii</td> <td>Taii</td> <td>from hedgerow boundary bank.</td> <td>Tell to facilitate proposal.</td> <td>10+</td> <td></td> <td>41</td> <td>,</td>	52	0032	mazer (common)	corylas avenana	0	300		1	~		`		North	M	1 dii	Taii	from hedgerow boundary bank.	Tell to facilitate proposal.	10+		41	,
Image: Proper state Image: Proper st	53 (P)*	0653	Horse Chestnut	Aesculus hippocastanum	24	1110	1	8	9	8	3	2	North	ОМ	Fair	Fair	Two leaders from 2m forming broad spreading crown, large lower stem wound W partial occlusion, bark inclusions at bifurcations, deadwood <100mmØ, from field	Fell to facilitate proposal.	40+	A3	547	13
mm mm<	E.4.(D)8	0654	Harra Chestaut	Ansaulus	15	240					_		North		Fair	Fair	boundary.	Nere	20.			
111 000 <td>54 (P)</td> <td>0034</td> <td>Horse chestriat</td> <td>hippocastanum</td> <td>15</td> <td>340</td> <td>1</td> <td>,</td> <td>4</td> <td>, °</td> <td>2</td> <td>,</td> <td>North</td> <td>EIVI</td> <td>Fall</td> <td>Fall</td> <td>partial occlusion, from field boundary.</td> <td>None</td> <td>204</td> <td>51</td> <td>33</td> <td>4</td>	54 (P)	0034	Horse chestriat	hippocastanum	15	340	1	,	4	, °	2	,	North	EIVI	Fall	Fall	partial occlusion, from field boundary.	None	204	51	33	4
PMP PMP Value PMP Value PMP Value PMP Value PMP PMP PMP PMP PM	55 (P)*	0655	Beech (Common)	Fagus sylvatica	17	330	1	4	5	3	1	3	North	EM	Fair	Fair	Two leaders from 3.5m forming part suppressed spreading crown, ivy clad, from field boundary.	None	20+	B1	48	4
mpm mpm mpmo mpmo mpmo mpm mpm<	G56*	0656	Mixed Species Group	N/a	6	220	1	3	3	3	1	1	East	EM	Fair	Fair	Dense linear group comprising holly and hazel forming understory boundary	None	10+	C2	23	3
Image: Proper biase in the state i	57 (P)*	0657	Lawson Cypress	Chamaecyparis	18	480	1	4	4	4	3	1	West	EM	Fair	Fair	neogerow adjacent to track. Single stem forming part suppressed spreading crown, part of a mature single	None	20+	B1	102	6
Image: Image:<	58 (P) *	0658	Silver Birch	lawsoniana Betula pendula	7	280#	1	3	4	3	2	4	West	EM	Fair	Fair	species high hedge, from private property boundary. Single stem forming weeping crown. from open grass within private garden.	None	10+	C1	34	3
Image Mark Mark <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td><u> </u></td><td></td><td></td><td></td><td>_</td><td></td><td></td><td></td><td></td><td></td><td>Restricted access.</td><td></td><td></td><td></td><td></td><td></td></t<>							<u> </u>				_						Restricted access.					
NO OND Description Descripti	H29 +	0659	Beech (Common)	Fagus sylvatica	2	280#	1	1	1		1	1	west	SM	Good	Good	Regularly maintained uniform nedgerow forming boundary to property boundary.	None	10+	12	10	2
No. No. <td>H60*</td> <td>0660</td> <td>Hawthorn</td> <td>Crataegus sp.</td> <td>2</td> <td>160</td> <td>1</td> <td>2</td> <td>2</td> <td>2</td> <td>1</td> <td>1</td> <td>West</td> <td>EM</td> <td>Area 2: Chapel S</td> <td>treet</td> <td>Flailed hedgerow forming field boundary. Restricted access.</td> <td>None</td> <td>10+</td> <td>62</td> <td>10</td> <td>2</td>	H60*	0660	Hawthorn	Crataegus sp.	2	160	1	2	2	2	1	1	West	EM	Area 2: Chapel S	treet	Flailed hedgerow forming field boundary. Restricted access.	None	10+	62	10	2
Diff Diff <thdif< th=""> Diff Diff D</thdif<>	61*	0661	Silver Birch	Retula pendula	14	260	1	1 2	4		1 2	1 2	1		Good		Single stam forming spreading crown, from siver bank grass werea	Nore		91	20	2
OP AM Number of the second of	62*	0662	Silver Birch	Betula pendula	15	260	1						Fast	EM EM		Good		IN UP	20+			
1 1 <th1< th=""> <th1< th=""> <th1< th=""> <th1< th=""></th1<></th1<></th1<></th1<>	63* 64*	0663	Silver Birch					3	3	3	2	4	West	EM	Good	Good	Single stem forming spreading crown, from river bank grass verge.	None	20+ 20+	B1	28	3
Diff Output Diff Diff <thdiff< th=""> Diff Diff <t< td=""><td></td><td></td><td>Italian Alder</td><td>Betula pendula Alnus cordata</td><td>14 13</td><td>220 190</td><td>1 1</td><td>3</td><td>3</td><td>3</td><td>2 2 2 2</td><td>4 3 3</td><td>West West West</td><td>EM EM EM EM</td><td>Good Good Good</td><td>Good Good Good Good</td><td>Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming compact crown, from river bank grass verge.</td><td>None None Fell to facilitate proposal.</td><td>20+ 20+ 20+ 20+ 20+</td><td>B1 B1 B1</td><td>28 23 18</td><td>3 2</td></t<></thdiff<>			Italian Alder	Betula pendula Alnus cordata	14 13	220 190	1 1	3	3	3	2 2 2 2	4 3 3	West West West	EM EM EM EM	Good Good Good	Good Good Good Good	Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming compact crown, from river bank grass verge.	None None Fell to facilitate proposal.	20+ 20+ 20+ 20+ 20+	B1 B1 B1	28 23 18	3 2
M M			Italian Alder	Betula pendula Alnus cordata	14	220	1	3	3		2 2 2	4 3 3	East West West West	EM EM EM EM	Good Good Good Good	Good Good Good Good	Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming compact crown, from river bank grass verge.	None None Fell to facilitate proposal.	20+ 20+ 20+ 20+	81	28 23 18	3 2
0.7. 0.87. 9.87 mm disk pecked 1.8 1.0 1.1 2.1	65*	0665	Italian Alder Silver Birch	Betula pendula Alnus cordata Betula pendula	14 13 13 15 15	220 190 300 300	1	3	3	1 3 1 3 1 3	2 2 2 2	2 4 3 3 2 2	Last West West West South	EM EM EM EM EM	Good Good Good Good	Good Good Good Good Good	Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming compact crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge.	Fell to facilitate proposal.	20+ 20+ 20+ 20+ 20+	81 81 81 81 81	28 23 18 41	3 3 2 4
64° 7060 Norw Maph Arrow Maph Arguing synchr 4 50 1 <th1< th=""> <th1< th=""> 1</th1<></th1<>	65*	0665	Italian Alder Silver Birch Silver Birch	Betula pendula Alnus cordata Betula pendula Betula pendula	14 13 13 15 15 14	220 190 300 250	1	3	3 3 3 4 2	: 3 : 3 : 3	2 2 2 2 2 2 2 2 2 2 2	2 4 3 3 2 2	West West South West	EM EM EM EM EM	Good Good Good Good Fair	Good Good Good Good Good Fair	Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge.	Fell to facilitate proposal. Fell to facilitate proposal. Fell to facilitate proposal.	20+ 20+ 20+ 20+ 20+ 20+	81 81 81 81 81	28 23 18 41 28	3 2 4 3
1 1	65* 66* 67*	0665	Italian Alder Silver Birch Silver Birch Silver Birch	Betula pendula Alnus cordata Betula pendula Betula pendula Betula pendula Betula pendula	14 13 15 15	220 190 300 250 320	1	3 3 3 3 3 3 3 3 4 4	3 3 3 4 4 2	I 3 I 3 I 3 I 3 I 3 I 3 I 3 I 3 I 3 I 3	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2	East West West South West South	EM EM EM EM EM EM	Good Good Good Good Fair Fair	Good Good Good Good Good Fair Good	Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming suppressed asymmetric crown, ivy clad, from river bank grass verge. Single stem forming suppressed asymmetric crown, ivy clad, from river bank grass verge. Single stem forming suppressed asymmetric crown, ivy clad, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge.	Fell to facilitate proposal.	20+ 20+ 20+ 20+ 20+ 20+	61 61 61 61 61 61	28 23 18 41 28 48	3 3 2 4 4
71^{+} 0671 Silver Birch Betulig pendula 12 210 1 2 3 3 3 4 $5Me$ Ter </td <td>65* 66* 67* 68* 69*</td> <td>0665 0666 0666 0667</td> <td>Italian Alder Italian Alder Silver Birch Silver Birch Silver Birch Norway Maple Bech (Common)</td> <td>Betula pendula Alnus cordata Betula pendula Betula pendula Betula pendula Betula pendula Acer platanoides Fagus sylvatica</td> <td>14 13 15 14 15</td> <td>220 190 300 250 320 90 190</td> <td></td> <td>3 3 3 3 3 3 3 4 4</td> <td>3 3 3 4 4 2 2 2</td> <td>i 3 i 3 i 3 i 3 i 3 i 3 i 3 i 3 i 3 i 1 i 3</td> <td>2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2</td> <td>2 2 2 2 2 2 2</td> <td>East West West South South South West West</td> <td>EM EM EM EM EM EM EM</td> <td>Good Good Good Good Fair Fair Good Good Good Good</td> <td>Good Good Good Good Good Fair Good Fair</td> <td>Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming suppressed asymmetric crown, ivy clad, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge.</td> <td>None None Fell to facilitate proposal. None</td> <td>20+ 20+ 20+ 20+ 20+ 20+ 20+ 20+ 20+ 20+</td> <td>61 81 81 81 81 81 61 61 61</td> <td>28 23 18 41 28 48 48 5 18</td> <td>3 3 2 4 4</td>	65* 66* 67* 68* 69*	0665 0666 0666 0667	Italian Alder Italian Alder Silver Birch Silver Birch Silver Birch Norway Maple Bech (Common)	Betula pendula Alnus cordata Betula pendula Betula pendula Betula pendula Betula pendula Acer platanoides Fagus sylvatica	14 13 15 14 15	220 190 300 250 320 90 190		3 3 3 3 3 3 3 4 4	3 3 3 4 4 2 2 2	i 3 i 3 i 3 i 3 i 3 i 3 i 3 i 3 i 3 i 1 i 3	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2	East West West South South South West West	EM EM EM EM EM EM EM	Good Good Good Good Fair Fair Good Good Good Good	Good Good Good Good Good Fair Good Fair	Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming suppressed asymmetric crown, ivy clad, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge.	None None Fell to facilitate proposal. None	20+ 20+ 20+ 20+ 20+ 20+ 20+ 20+ 20+ 20+	61 81 81 81 81 81 61 61 61	28 23 18 41 28 48 48 5 18	3 3 2 4 4
172 0672 stream endulgendulg 15 280 1 3 3 3 3 3 4 6	65* 66* 67* 69* 70*	0665 0666 0666 0667 0667	Italian Alder Italian Alder Silver Birch Silver Birch Silver Birch Norway Maple Beech (Common) Beech (Common)	Betula pendula Alnus cordata Alnus cordata Betula pendula Betula pendula Betula pendula Betula pendula Acer platanoides Fogus sylvatica Fogus sylvatica	14 13 15 14 15 15 15	220 190 300 250 320 320 90 190		3 3 3 3 3 3 3 3 3 4 4 1 3 2	3 3 3 3 4 4 2 2 2 1 3 3 2	i 3 i 3 i 3 i 3 i 3 i 3 i 3 i 3 i 1 i 3 i 3	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2	East West West South South West West West	EM EM EM EM EM EM EM	Good Good Good Good Fair Fair Good Good Good Good	Good Good Good Good Good Fair Good Fair Good	Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming compact crown, from river bank grass verge. Single stem forming compact crown, from river bank grass verge. Single stem forming compact crown, from river bank grass verge. Single stem forming compact crown, from river bank grass verge. Single stem forming compact crown, from river bank grass verge. Single stem forming compact crown, from river bank grass verge.	None None None Fell to facilitate proposal. None None	20+ 20+ 20+ 20+ 20+ 20+ 20+ 20+ 20+ 20+		28 23 18 41 41 41 41 48 48 5 5 18 7	3 3 2 4 4 1 2 2
A clupersocryperise Clupersocryperise <th< td=""><td>65* 66* 67* 69* 70* 71*</td><td>0665 0666 0666 0667 0667 0669 0670 0671</td><td>Italian Alder Italian Alder Silver Birch Silver Birch Norway Maple Beech (Common) Silver Birch</td><td>Betula pendula Alnus cordata Alnus cordata Betula pendula Betula pendula Betula pendula Betula pendula Acer platanoides Fagus sylvatica Fagus sylvatica Betula pendula</td><td>14 13 15 14 15 15 15 15 15 22</td><td>220 190 300 250 320 320 90 190 120 210</td><td></td><td>3 3 3 3 3 3 3 3 4 4 4 1 3 2 2</td><td>3 3 3 3 4 4 2 2 2 3 3</td><td>i 3 i 3 i 3 i 3 i 3 i 3 i 3 i 3 i 1 i 3 i 3 i 3 i 3</td><td>2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2</td><td>2 2 2 2 2 2 2 3</td><td>Lest West West South South West West West West</td><td>EM EM EM EM EM EM EM EM</td><td>Good Good Good Good Fair Good Good Good Good Fair</td><td>Good Good Good Good Good Fair Good Fair Good Fair</td><td>Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming compact crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming compact crown, from river bank grass verge. Two leaders from 2m forming spreading crown, bark inclusion at bifurcation, from river bank grass verge. Single stem forming compact crown, from river bank grass verge. Single stem forming compact crown, from river bank grass verge. Two leaders from 2m forming spreading crown, bark inclusion at bifurcation, from river bank grass verge. Single stem forming compact crown, from river bank grass verge.</td><td>None None None Fell to facilitate proposal. None None None</td><td>20+ 20+ 20+ 20+ 20+ 20+ 20+ 20+ 20+ 20+</td><td></td><td>28 23 18 41 41 41 41 7 18 7 18</td><td>3 3 2 4 4 1 2 2 2 2 2</td></th<>	65* 66* 67* 69* 70* 71*	0665 0666 0666 0667 0667 0669 0670 0671	Italian Alder Italian Alder Silver Birch Silver Birch Norway Maple Beech (Common) Silver Birch	Betula pendula Alnus cordata Alnus cordata Betula pendula Betula pendula Betula pendula Betula pendula Acer platanoides Fagus sylvatica Fagus sylvatica Betula pendula	14 13 15 14 15 15 15 15 15 22	220 190 300 250 320 320 90 190 120 210		3 3 3 3 3 3 3 3 4 4 4 1 3 2 2	3 3 3 3 4 4 2 2 2 3 3	i 3 i 3 i 3 i 3 i 3 i 3 i 3 i 3 i 1 i 3 i 3 i 3 i 3	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 3	Lest West West South South West West West West	EM EM EM EM EM EM EM EM	Good Good Good Good Fair Good Good Good Good Fair	Good Good Good Good Good Fair Good Fair Good Fair	Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming compact crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming compact crown, from river bank grass verge. Two leaders from 2m forming spreading crown, bark inclusion at bifurcation, from river bank grass verge. Single stem forming compact crown, from river bank grass verge. Single stem forming compact crown, from river bank grass verge. Two leaders from 2m forming spreading crown, bark inclusion at bifurcation, from river bank grass verge. Single stem forming compact crown, from river bank grass verge.	None None None Fell to facilitate proposal. None None None	20+ 20+ 20+ 20+ 20+ 20+ 20+ 20+ 20+ 20+		28 23 18 41 41 41 41 7 18 7 18	3 3 2 4 4 1 2 2 2 2 2
λ_{LPC} λ_{UPC}	65* 66* 67* 67* 68* 69* 70* 71* 72*	0665 0666 0666 0667 0667 0667 0671 0671	Italian Alder Italian Alder Silver Birch Silver Birch Silver Birch Rorway Maple Beech (Common) Silver Birch Silver Birch	Betula pendula Alnus cordata Alnus cordata Betula pendula Betula pendula Betula pendula Betula pendula Acer platanaides Fagus sylvatica Fagus sylvatica Betula pendula Betula pendula	14 13 15 14 14 15 15 15 15 22 15	220 190 300 250 320 320 90 190 120 210 220		3 3 3 3 3 3 3 3 4 4 4 2 2 2 2 3	3 3 3 3 4 4 2 2 2 2 3 3 3 3 3 3 3 3	i 3 i 3 i 3 i 3 i 3 i 3 i 3 i 3 i 3 i 1 i 3 i 1 i 3 i 1 i 3 i 1 i 3	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 3 3	East West West South South West West West West West	EM EM EM EM EM EM EM EM	Good Good Good Good Fair Good Good Good Good Fair Good Good	Good Good Good Good Good Fair Good Fair Good Fair Good Fair Good	Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming compact crown, from river bank grass verge. Single stem forming compact crown, from river bank grass verge. Single stem forming compact crown, from river bank grass verge. Single stem forming compact crown, from river bank grass verge. Single stem forming compact crown, from river bank grass verge. Single stem forming compact crown, from river bank grass verge. Single stem forming compact crown, from river bank grass verge. Single stem forming compact crown, from river bank grass verge.	None None None Fell to facilitate proposal. None None None None None	20+ 20+ 20+ 20+ 20+ 20+ 20+ 20+ 20+ 20+		28 23 18 41 28 48 48 48 5 18 7 7 18 7 34	3 3 2 4 4 4 1 2 2 2 2 2 3
Image: bit in the line bit in the lin the line bit in the line bit in the line bit in	65* 66* 67* 67* 68* 69* 70* 71* 72* 73	0665 0666 0666 0667 0667 0667 0671 0671 0672 0673	Italian Alder Italian Alder Silver Birch Silver Birch Silver Birch Becch (Common) Becch (Common) Silver Birch Silver Birch Leylandii	Betula pendula Alnus cordata Alnus cordata Betula pendula Betula pendula Betula pendula Betula pendula Acer platanoides Fagus sylvatica Betula pendula Betul	14 13 15 14 14 15 15 15 22 22	220 190 300 250 320 320 90 190 190 210 220 280 810		3 3 3 3 3 3 3 3 3 4 4 4 1 3 2 2 2 3 8	3 3 3 4 4 2 2 2 4 3 3 3 3 4		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 3 3 3 2 2 2 2 2 3 3 2 2 2 2 2 2 2 2 3 3	Last West West South South West West West West West West	EM EM EM EM EM EM EM EM SM SM EM	Good Good Good Good Good Fair Good Good Good Fair Good Fair Good Good	Good Good Good Good Good Fair Good Fair Good Fair Good Fair	Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming compact crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming compact crown, from river bank grass verge. Single stem forming compact crown, from river bank grass verge. Single stem forming compact crown, from river bank grass verge. Single stem forming compact crown, from river bank grass verge. Single stem forming compact crown, from river bank grass verge. Single stem forming compact crown, from river bank grass verge. Single stem forming compact crown, from river bank grass verge. Single stem forming compact crown, from river bank grass verge. Single stem forming compact crown, from river bank grass verge. Single stem forming compact crown,	Fell to facilitate proposal. None None None None None None None None	20+ 20+ 20+ 20+ 20+ 20+ 20+ 20+ 20+ 20+		28 23 18 41 28 48 48 5 18 7 7 18 7 18 34 290	3 3 2 4 4 2 3 3 2 2 2 2 2 2 2 3 10
Application	65* 66* 67* 67* 68* 69* 70* 71* 72* 73 74	0665 0666 0666 0667 0667 0667 0667 0671 0671	Italian Alder Italian Alder Silver Birch Silver Birch Silver Birch Birch Beech (Common) Beech (Common) Silver Birch Levlandii Levlandii	Betula pendula Alnus cordata Alnus cordata Betula pendula Betula pendula Betula pendula Betula pendula Acer platanoides Fogus sylvatica Betula pendula Betula pendula Etaua pendula Betula pendula X cupressocyparis leylandii X cupressocyparis	14 13 15 14 15 15 14 15 15 12 15 22 22	220 190 300 250 250 320 90 190 120 210 280 810 730		3 3 3 3 3 3 3 3 3 3 3 4 4 4 2 2 2 3 8 8	3	1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 3 3 2 2 3 3 2 2	Lest West West South South West West West West West West West West	ЕМ ЕМ ЕМ ЕМ ЕМ ЕМ ЕМ ЕМ У SM Р М М	Good Good Good Good Fair Good Good Good Fair Good Fair Good Good Good	Good Good Good Good Good Fair Good Fair Good Fair Good Fair Good Fair	Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming compact crown, from river bank grass verge. Single stem forming compact crown, from river bank grass verge. Single stem forming part suppressed crown, from river bank grass verge. Single stem forming part suppressed proad spreading crown, from river bank grass verge. Single stem forming part suppressed broad spreading crown, from river bank grass verge. Single stem forming part suppressed broad spreading crown, from river bank grass verge. Single stem forming part suppressed broad spreading crown, from river bank grass verge.	None None Fell to facilitate proposal. None	20+ 20+ 20+ 20+ 20+ 20+ 20+ 20+ 20+ 20+	61 61 61 61 61 61 61 61 61 61	28 23 18 41 41 28 48 48 5 18 7 7 18 7 18 34 290 238	3 3 2 4 4 1 2 2 2 2 2 3 10 9
A bit	65* 66* 67* 67* 68* 69* 70* 71* 72* 73 74	0665 0666 0666 0667 0670 0671 0672 0673 0674	Italian Alder Italian Alder Silver Birch Silver Birch Silver Birch Birch Beech (Common) Beech (Common) Beech (Common) Silver Birch Leylandii Leylandii	Betula pendula Alnus cordata Alnus cordata Betula pendula Betula pendula Betula pendula Betula pendula Acer platanoides Fagus sylvatica Fagus sylvatica Fagus sylvatica Betula pendula Betula pendula X cupressocyparis leylandii X cupressocyparis	14 13 15 14 15 15 14 15 15 12 15 22 22	220 190 300 250 320 90 190 120 210 280 810 730		3 3 3 3 3 3 3 3 3 3 3 4 4 1 3 3 2 2 2 3 8 8 8	3	1 3 1 3 2 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2 3 3 2 3 3 2 3 3 2 3 3	East West West South South West West West West West West	EM EM EM EM EM EM EM EM SM SM M M	Good Good Good Good Fair Good Good Good Fair Good Fair Good Good Good	Good Good Good Good Good Fair Good Fair Good Fair Good Fair Fair Fair	Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming compact crown, from river bank grass verge. Single stem forming compact crown, from river bank grass verge. Single stem forming part suppressed crown, from river bank grass verge. Single stem forming part suppressed proad spreading crown, from river bank grass verge. Single stem forming part suppressed proad spreading crown, from river bank grass verge. Single stem forming part suppressed proad spreading crown, from river bank grass verge. Single stem forming part suppressed broad spreading crown, from river bank grass verge.	None None Fell to facilitate proposal. None	20+ 20+ 20+ 20+ 20+ 20+ 20+ 20+ 20+ 20+		28 23 18 41 41 28 48 48 48 5 18 7 7 18 7 18 34 290 238	3 3 2 4 4 1 2 2 2 2 2 2 3 10 9
77 0677 Sycamore Acer pseudoptanus 15 410 11 4 4 5 6 2 3 Mest Fair Single swept stem forming part suppressed spreading crown, from river bank edge. None 20+ B1 72 55 78 0678 Leylandii Kupressoparis leylandii 20 630 11 6 6 6 2 11 South M Good Fair Single swept stem forming part suppressed spreading crown, from river bank edge. None 20+ B1 72 5	65* 66* 67* 67* 70* 71* 72* 73 74 75	0665 0666 0666 0667 0667 0667 0671 0672 0673 0673 0674	Italian Alder Italian Alder Silver Birch Silver Birch Silver Birch Birch Beech (Common) Beech (Common) Silver Birch Leylandii Leylandii Leylandii	Betula pendula Alnus cordata Alnus cordata Betula pendula Betula pendula Betula pendula Betula pendula Acer platanoides Fogus sylvatica Fogus sylvatica Betula pendula Eetula pendula Eetula pendula x Cupressocyparis leylandii x Cupressocyparis leylandii x Cupressocyparis	14 13 15 15 14 14 7 7 5 12 15 22 22 22 22	220 190 300 250 320 320 190 190 120 210 210 210 210 320 810 810 840		3 3 3 3 3 3 3 3 3 4 4 4 1 3 3 2 2 3 8 8 8 8 8	3 3 3 4 4 2 2 2 4 3 3 3 3 3 3 4 4 8 8	i 3 3 3 3 3 3 3 4 3 1 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 1 3 1 3 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 3 3 2 2 3 3 2 2 2 3	East West West West South West West West West West	EM EM EM EM EM EM EM EM SM SM EM M M M	Good Good Good Good Fair Good Good Fair Good Fair Good Fair Good Good Good	Good Good Good Good Good Fair Fair Good Fair Good Fair Fair Fair Fair	Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming compact crown, from river bank grass verge. Single stem forming compact crown, from river bank grass verge. Single stem forming compact crown, from river bank grass verge. Single stem forming compact crown, from river bank grass verge. Single stem forming compact crown, from river bank grass verge. Single stem forming preading crown, from river bank grass verge. Single stem forming preading crown, from river bank grass verge. Single stem forming preading crown, from river bank grass verge. Single stem forming preading crown, from river bank grass verge. Single stem forming preading crown, from river bank grass verge. Single stem forming part suppr	None None Fell to facilitate proposal. None	20+ 20+ 20+ 20+ 20+ 20+ 20+ 20+ 20+ 20+		28 23 18 41 41 28 48 48 48 48 7 18 34 290 238 238 327	3 3 2 4 4 1 2 2 3 3 10 9 9
78 0678 Leylandii 20 630 1 6 6 6 2 1 South M Good Fair Single stem forming part suppressed spreading crown, from river bank grass verge. None 20+ B1 177 8	65* 66* 67* 67* 68* 69* 70* 71* 72* 73 74 75 76	0665 0666 0666 0667 0671 0672 0673 0673 0674 0675 0675	Italian Alder Italian Alder Silver Birch Silver Birch Silver Birch Birch Beech (Common) Beech (Common) Beech (Common) Esilver Birch Leylandii Leylandii Leylandii Leylandii Leylandii	Betula pendula Alnus cordata Alnus cordata Betula pendula Betula pendula Betula pendula Betula pendula Betula pendula Acer platanoides Fagus sylvatica Betula pendula Etaula pendula Etaula pendula X cupressocyparis leylandii	14 13 15 14 15 15 15 12 15 22 22 22 22 22	220 190 300 250 250 320 90 190 120 210 280 810 730 840 540		3 3 3 3 3 3 3 3 3 3 3 4 4 4 1 3 3 2 2 2 3 8 8 8 8 8 8 8 8 8	3 3 3 3 3 3 4 - 2 - 4 - 2 - 3 - 4 - 3 - 4 - 3 - 4 - 8 - 9 -	1 3 1 3 2 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 8 1 8 1 8 1 8 1 8	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4 4 3 3 2 2 2 2 2 2 2 2 3 3 2 2 3 3 2 2 3 3 2 2 3 3 2 2 3 2 2 2 2 2	East West West South South West West West West West West West	EM EM EM EM EM EM EM EM EM SM SM EM M M M	Good Good Good Good Fair Good Good Good Fair Good Fair Good Good Good Good Good	Good Good Good Good Good Fair Good Fair Good Fair Good Fair Fair Fair Fair Fair	Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming compact crown, from river bank grass verge. Single stem forming compact crown, from river bank grass verge. Single stem forming part suppressed crown, from river bank grass verge. Single stem forming preading crown, from river bank grass verge. Single stem forming part suppressed broad spreading crown, from river bank grass verge. Single stem forming broad spreading crown, from river bank grass verge. Single stem forming part suppressed broad spreading crown, from river bank grass verge. Single stem forming broad spreading crown, from river bank grass verge. Single stem forming broad spreading crown, from river bank grass verge. Single stem forming part suppressed broad spreading crown, from river bank grass verge. Single stem forming part suppressed broad spreading crown, from river bank grass verge. Single stem forming part suppressed broad spreading crown, from river bank grass verge.	None None None Fell to facilitate proposal. None	20+ 20+ 20+ 20+ 20+ 20+ 20+ 20+ 20+ 20+	61 61 61 61 61 61 61 61 61 61	28 23 18 41 41 28 48 48 48 5 18 7 18 7 18 7 18 34 290 238 327 238	3 3 2 4 4 1 2 2 2 2 2 2 2 3 10 9 9 10 7
	65* 66* 67* 67* 68* 69* 70* 71* 72* 73 74 75 76 77	0665 0666 0666 0667 0671 0672 0673 0673 0674 0675 0676	Italian Alder Italian Alder Silver Birch Silver Birch Silver Birch Birch Beech (Common) Beech (Common) Beech (Common) Esilver Birch Leylandii Leylandii Leylandii Leylandii Leylandii Leylandii	Betula pendula Alnus cordata Alnus cordata Betula pendula Betula pendula Betula pendula Betula pendula Betula pendula Acer platanoides Fagus sylvatica Betula pendula Etaula pendula X cupressocyparis leylandii X cupressocyparis	14 13 15 14 15 15 15 12 15 22 22 22 22 22 22 22 22	220 190 300 250 320 90 190 120 210 280 810 730 840 540 410		3 3 3 3 3 3 3 3 3 3 3 4 4 4 1 3 3 2 2 2 3 8 8 8 8 8 8 8 8 8 8 8 8 8 8	3 3 3 3 3 3 4 - 2 - 4 - 2 - 3 - 4 - 3 - 4 - 3 - 4 - 8 - 9 - 4 -	1 3 1 3 2 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4 4 3 3 2 3 2 2 2 2 2 2 3 3 2 2 3 3 2 2 3 3 2 2 3 2 3 2 3 2 3 3	East West West West South West West West West West East North West West West	ЕМ ЕМ ЕМ ЕМ ЕМ ЕМ ЕМ ЕМ К С С С С С С С С С С С С С	Good Good Good Good Fair Good Good Good Fair Good Good Good Good Good Fair Good Good Fair	Good Good Good Good Good Fair Fair Good Fair Good Fair Fair Fair Fair Fair Fair	Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming spreading crown, from river bank grass verge. Single stem forming compact crown, from river bank grass verge. Single stem forming compact crown, from river bank grass verge. Single stem forming compact crown, from river bank grass verge. Single stem forming part suppressed forown, from river bank grass verge. Single stem forming broad spreading crown, from river bank grass verge. Single stem forming broad spreading crown, from river bank grass verge. Single stem forming part suppressed broad spreading crown, from river bank grass verge. Single stem forming part suppressed broad spreading crown, from river bank grass verge. Single stem forming part suppressed broad spreading crown, from river bank grass verge. Single stem forming part suppressed broad spreading crown, from river bank grass verge. Single stem forming part suppressed broad spreading crown, from river bank grass verge. Single stem forming part suppressed broad spreading crown, from river bank grass verge. Single stem forming part suppressed broad spreading crown, from river bank grass verge. Single stem forming part suppressed broad spreading crown, from river bank grass verge. Single stem forming part suppressed broad spreading crown, from river bank grass verge.	None None None Fell to facilitate proposal. None None	20+ 20+ 20+ 20+ 20+ 20+ 20+ 20+ 20+ 20+		28 23 18 41 41 28 48 48 48 5 18 7 18 7 18 7 18 34 290 238 327 137 72	3 3 2 4 4 1 2 2 2 2 2 2 3 10 9 9 10 7 5 5

RPS Design Comments	Updated Recommendations
Agree felling is likely to be necessary to complete the works. Should be reassessed at Construction when embankment is set out	
Agree felling is necessary for the works	
Agree felling is necessary for the works	
Agree felling is necessary for the works	
Agree felling is necessary for the works	
Embankment work does not extend this far No Justification for felling the tree	Do not fell Construction to follow tree protection method statement
No Justification for felling the tree <i>unless</i> the roots extend underneath the wall. Wall excavation to be witnessed by Construction Stage Arborist Tree surveyed for bat roosting potential	Do not fell unless instructed by Construction Stage Arborist Construction to follow tree protection method statement
No Justification for felling the tree unless the roots extend underneath the wall. Wall excavation to be witnessed by Construction Stage Arborist Tree surveyed for bat roosting potential	Do not fell unless instructed by Construction Stage Arborist Construction to follow tree protection method statement
No Justification for felling the tree unless the roots extend underneath the wall. Wall excavation to be witnessed by Construction Stage Arborist Tree surveyed for bat roosting potential	Do not fell unless instructed by Construction Stage Arborist Construction to follow tree protection method statement
No Justification for felling the tree unless the roots extend underneath the wall. Wall excavation to be witnessed by Construction Stage Arborist Tree surveyed for bat roosting potential	Do not fell unless instructed by Construction Stage Arborist Construction to follow tree protection method statement

Client	RPS Consulting	UK & Ireland																				1	
Project / Site	Clonaslee Flood	Relief Scheme	1																	4			
Keterence Survey Date	23-527-01 23rd-25th Janua	ry 2024	-																	John Herris	Arberisultarul Consultancy		
Abreviation	Definition Height (m)		Age Class Y (Young)	Newly play	nted (<10 vm /	old)		Physiol	ological Co	ondition	roblems	Struct	Iral Condition	ds	Category	High value and conservation		U.L.E 40+	Sub categ	ory 1 Mainly arborics	ultural		
Stem Dia.	Stem diameter (mm)	SM (Semi-mature)	First third	of life expectar	ncy		Fai	Interver	ntion may imp	prove healt	th Fair	Defects may re	quire intervention	B	Moderate value and conservation		20+		2 Mainly landsca	ape	1	
C.C L.B.H	Crown clearance Lowest (significa	e (m) ant) branch height (m)	EM (Early mature) M (Mature)	Second th Full age for	nird of life exper or species	ctancy		Poo	or Serious	s ill health or o	dying	Poor	Dangerous or r	io remedy	C U	Low value and conservation Not suitable for retention		10+ <10		3 Mainly cultural		-	
L.B.D	Direction of lowe	est (significant) branch	OM (Over mature)	Beyond life	fe expectancy &	& in decline	unice				5			0.07	H . Hedrey	Wordiand P. Tras is on minute land. *The is and as teacoust in the second statement is second statement in the second statement in the second statement is second statement in the second statement in the second statement is second statement in the second statement in the second statement is second statement in the second statement in the second statement is second statement in the second statement in the second statement is second statement in the second statement in the second statement is second statement in the second statement in the second statement is second statement in the second statement in the second statement is second statement in the second statement in the second statement is second statement in the second statement in the second statement is second statement in the second statement in the second statement is second statement in the second statement in the second statement is second statement in the second statement in the second statement in the second statement in the second statement is second statement in the second statement in the second statement in the second statement is second statement in the second statement in the second statement is second statement in the second statement in the second statement is second statement in the second	infinition # Mannuments and install days	vooreibie)					
U.L.E	Minimum usetui	life expectancy (yrs)	v (veteran)	Ancient cr	naracteristics o	or conservation	i value			Pren	IX.			G - Group	H - Hedgerow	v - wooqiana P - i ree is on private iana "i ree is not on topographical survey and therefore position remains i	indicitive # Measurements estimated (tree is inac	cessible)				1	
Tree No.	Tag No.	Species	Botanical Name	H (m)	Stem Dia.	No of Stems		Crown Spi	eread (m)) I v	C.C	L.B.H L.B.D (m)	Age	Physiological	Structural	Comments	Recommendations	U.L.E	Cat.	RPA (m2)	RPA Radial distance (m)	RPS Design Comments	Updated Rec
79	0679	Levlandii	x Cupressocyparis	20	810	1			8 6	8		2 South	м	Good	Fair	Single stem forming part suppressed broad spreading crown, from river bank grass verge.	None	20+	81	290	10		
80	0680	Wild Charge subject	Revenue autom	20	100	-			1 1	1	-	2 30001		Fair	Fair	Cinele stars forming fasticists compact scours, from road adea adiacent to unli	Fall to facilitate proposal	10	61	250	10	Arres folling is possessed for the works	
80	0680	wild Cherry cultivar	'Plena'	3	100	1	1	· ·	1 1	1	2	2 West	SM	Fair	Fair	Single stem forming fastigiate compact crown, from road edge adjacent to wall.	Feii to facilitate proposal.	10+	LI .	5	1	Agree telling is necessary for the works	
81	0681	Wild Cherry cultivar	Prunus avium 'Plena'	3	100	1	1	. 1	1 1	1	2	2 West	SM	Fair	Fair	Single stem forming fastigiate compact crown, from road edge adjacent to wall.	Fell to facilitate proposal.	10+	C1	5	1	Agree felling is necessary for the works	
82	0682	Wild Cherry cultivar	Prunus avium 'Plena'	3	100	1	1	L 1	1 1	1	2	2 West	SM	Fair	Fair	Single stem forming fastigiate compact crown, stem wound from torn limb, from	Fell to facilitate proposal.	10+	C1	5	1	Agree felling is necessary for the works	
83	0683	Wild Cherry cultivar	Prunus avium	3	90	1	1	1 1	1 1	1	2	2 West	SM	Fair	Fair	Single stem forming fastigiate compact crown, from road edge adjacent to wall.	Fell to facilitate proposal.	10+	C1	5	1	Agree felling is necessary for the works	
84	0684	Wild Cherry cultivar	'Plena' Prunus avium	3	120	1	1	. 1	1 1	1	2	2 West	SM	Fair	Fair	Single stem forming fastigiate compact crown, from road edge adjacent to wall.	Fell to facilitate proposal.	10+	C1	7	2	Agree felling is necessary for the works	
85	0685	Wild Cherry cultivar	'Plena' Prunus avium	3	110	2	1	1 1	1 1	1	2	2 West	SM	Fair	Fair	Two stems from base forming fastigiate compact crown, from road edge adjacent to	Fell to facilitate proposal.	10+	C1	5	1	Agree felling is necessary for the works	
96	0696	Wild Cherry cultiver	'Plena'		100		-		1 1			2 14/00		Ente	Fair	wall.	Fell to facilitate accessed	40.	C1	F	1	Agree felling is necessary for the works	
00	0086	unit el	'Plena'	3	100	1	1		- 1 -	1	2	2 west	SIM	Fair	Fair	wo scens non usse nonning issignate compact crown, from road edge adjacent to Wall.	r en to racintate proposal.	10+	CI .	,	1	Agree reming is necessary for the works	
87	0687	Wild Cherry cultivar	Prunus avium 'Plena'	3	110	1	1		1 1	1	2	2 West	SM	Fair	Fair	Single stem forming fastigiate compact crown, from road edge adjacent to wall.	Fell to facilitate proposal.	10+	C1	5	1	Agree felling is necessary for the works	
88	0688	Wild Cherry cultivar	Prunus avium 'Plena'	3	90	1	1	L 1	1 1	1	2	2 West	SM	Fair	Fair	Single stem forming fastigiate compact crown, from road edge adjacent to wall.	Fell to facilitate proposal.	10+	C1	5	1	Agree felling is necessary for the works	
89	0689	Wild Cherry cultivar	Prunus avium	3	90	1	1	. 1	1 1	1	2	2 West	SM	Fair	Fair	Two stems from base forming fastigiate compact crown, from road edge adjacent to	Fell to facilitate proposal.	10+	C1	5	1	Agree felling is necessary for the works	
90*	0690	English Elm	Ulmus procera	4	120	1	1	1	1 1	1	2	2 East	SM	Dead	Dead	wall. Three dead elm stems surrounded by dense vegetation/scrub.	Fell	<10	U	7	2		
91	0691	Cider Gum	Eucalyptus gunnii	17	400	2	4	1 4	4 4	4	3	3 South	EM	Good	Fair	Two leaders from base forming fastigiate crown, bark inclusion at bifurcation, from garden lawn/edge of dense vegetation.	Fell to facilitate proposal.	20+	B1	72	5	Agree felling is necessary for the works	
92*	0692	Garden Plum	Prunus domestica	4	60	1	1	1	1 1	1	1	1 South	Y	Good	Good	Single stem forming fastigiate compact crown, from garden lawn.	Fell to facilitate proposal.	10+	C1	1	1	Agree felling is necessary for the works	
93*	0693	Garden Plum	Prunus domestica	4	80	1	2	2 2	2 2	2	1	1 East	SM	Good	Good	Single stem forming spreading crown, from garden lawn.	None	10+	C1	3	1		
94	0694	Garden Plum	Prunus domestica	4	80	1	1	1 2	2 2	1	1	1 South	SM	Fair	Fair	Single stem forming spreading crown, broken limb, from garden lawn.	None	10+	C1	3	1		
95	0695	Apple	Malus domestica	3	100	2	2	2 1	1 2	2	1	1 West	SM	Fair	Fair	Multistem from base forming spreading crown, from garden lawn.	None	10+	C1	5	1		
96 97	0696 0697	Pear Garden Plum	Pyrus communis Prunus domestica	4	100 90	1	2	2 1	1 1 1 1	1	1	1 West 1 South	SM	Good Good	Good	Single stem forming fastigiate compact crown, from garden lawn. Single stem forming fastigiate compact crown, from garden lawn.	None	10+	C1 C1	5	1		
98	0698	Garden Plum	Prunus domestica	3	90	1	1		1 1	1	1	1 South	SM	Good	Good	Two leaders from have forming factigiate connact crown, from garden hum	None	10+	C1	5	1		
99	0699	Lawson Cypress cultivar	Chamaecunaris	4	320	10	2		3 3	3	1	1 North	M	Fair	Fair	Multistem from base forming dense compact crown, previous beight radiation from	Fell to facilitate proposal	10+		48	4	Agree felling is necessary for the works	
55	0099	Lawson Cypress Cultival	lawsoniana cv.	4	320	10				,	1	1 North	NI	i dii	ran	garden lawn.	c to racintate proposal.	107		**		Among falls	
100	0700	Lawson Cypress cultivar	Chamaecyparis Iawsoniana cv.	4	220	10	2	2	2 2	2	1	1 North	EM	Fair	Fair	Multistem from base forming dense compact crown, previous height reduction, from garden lawn.	Fell to facilitate proposal.	10+	C1	23	3	Agree felling is necessary for the works	
101	0801	Monterey Cypress	Cupressus macrocarpa	3	180	3	2	2 2	2 1	1	2	2 West	SM	Fair	Fair	Three leaders from 1m forming part suppressed compact crown, crown lifted and height reduced, from garden lawn.	Fell to facilitate proposal.	10+	C1	14	2	Agree felling is necessary for the works	
102	0802	Irish Yew	Taxus baccata	2	150	1	1	1	1 1	1	1	1 East	Y	Fair	Fair	Multistem from base forming fastigiate compact crown, from garden lawn.	Fell to facilitate proposal.	10+	C1	10	2	Agree felling is necessary for the works	
103	0803	Lawson Cypress cultivar	Chamaecyparis	4	320	10	2	2 2	2 1	1	1	1 East	EM	Fair	Fair	Multistem from base forming dense compact crown, previous height reduction, from	Fell to facilitate proposal.	10+	C1	48	4	Agree felling is necessary for the works	
104	0804	Monterey Cypress	lawsoniana cv. Cupressus macrocare	pa 3	210	1	2	2 2	2 1	1	2	2 North	SM	Fair	Fair	garden lawn. Single stem forming compact crown, crown lifted and height reduced, from garden lawn.	Fell to facilitate proposal.	10+	C1	18	2	Agree felling is necessary for the works	
105	0805	Lawson Cypress cultivar	Chamaecvparis	5	350	10	2	2 7	2 2	2	1	1 North	FM	Fair	Fair	Multistem from base formine dense compact crown, previous height reduction, from	Fell to facilitate proposal	10+	C1	55	4	Agree felling is necessary for the works	
1000		Analo	lawsoniana cv.													garden lawn.	Fall to facilitate					Aaroo follo	
106*	0806	Apple	waius domestica	3	160	2	2	2	2 2	1	2	1 South	EM	Fair	Fair	I wo leaders from base forming asymmetric spreading crown, from garden lawn.	 Feii to facilitate proposal. 	10+	CI	10	2	Agree reling is necessary for the works	
107*	0807	Apple	Malus domestica	3	130	1	2	2 2	2 1	1	1	1 North	SM	Fair	Fair	Three leaders from base forming asymmetric crown, from garden lawn.	Fell to facilitate proposal.	10+	C1	7	2	Agree felling is necessary for the works	
108*	0808	Irish Yew	Taxus baccata 'Fastigiata'	2	110	1	1	L 1	1 1	1	1	1 North	Y	Fair	Fair	Multistem from base forming trimmed compact bush, from garden lawn adjacent to wall.	Fell to facilitate proposal.	10+	C1	5	1	Agree felling is necessary for the works	
H109	0809	Cherry Laurel	Prunus Iaurocerasus	2	130	1	1	L 1	1 1	1	1	1 North	EM	Good	Good	Maintained hedge from garden lawn.	None	10+	C1	7	2		
110*	0810	Californian Lilac	Ceanothus sp.	2	190	3	1	. 1	1 1	1	1	1 North	м	Fair	Fair	Three leaders from base forming compact maintained shrub, from glower bed.	None	10+	C1	18	2		
G111*	0811	Liquidambar	Liquidambar	2	30	1	1	1	1 1	1	1	1 North	Y	Fair	Fair	Recently planted, evenly spaced line of 7 staked trees, from garden lawn.	None	10+	C1	0	0		
112 (P)*	0812	Beech (Common)	styraciflua Fagus sylvatica	16	630#	4	7	7 6	6 6	6	2	2 North	м	Fair	Fair	Multistem from base forming spreading crown, ivy clad, from river bank.	None	40+	A1	177	8		
113 (P)*	0813	Beech (Common)	Fagus svlvatica	16	400#	1	7	, ,	6 4	7	3	2 West	FM	Fair	Fair	Single swept stem with two leaders formine asymmetric spreading crown, bark inclusion at bifurcation, iso	y None	20+	81	72	5		
() /			-9 9/10/100	10	450#			ľ				west	LW	. 31	241	clad, surrounded by dense vegetation, lower lateral limbs overhanging garden, from edge of river bank.							
			Acar providentes													Multistem from have forming consulting crossel, appendix in source does a posted at have							
114 (P)*	0814	Sycamore	Acer pseudoplatanus	16	650#	1	6	5 6	6 7	5	2	2 North	м	Fair	Fair	dense vegetation, from edge of river bank. Restricted access.	None	20+	В1	191	8		
115 (P)*	0815	Beech (Common)	Fagus sylvatica	22	350#	1	6	5 6	6 4	6	2	3 East	EM	Fair	Fair	Single ivy clad stem forming part suppressed spreading crown, from edge of river	None	20+	B1	55	4		
116 (P)*	0816	Sycamore	Acer	17	550#	1	4	1 e	6 4	5	2	3 East	M	Fair	Fair	bank. Restricted access. Multistem from base forming part suppressed spreading crown. extensive ivv cover.	None	20+	B1	137	7		
117 (D)*	0017	Reach (Commers)	pseudoplatanus		720#	-			7 6	6		2 50.4		Tair	Fair	from edge of river bank. Restricted access.	Nese	40.	41	339			
117 (P)	001/	Seech (common)	, ugus syivutica	22	730#	2					2	2 South	M	r dir.	Fair	Restricted access.	None	40+	AI	238	5		
118 (P)*	0818	Sycamore	Acer pseudoplatanus	11	350#	1	4	5	5 4	4	2	1 East	EM	Fair	Fair	Multistem from base forming spreading crown, extensive ivy cover, surrounded by dense vegetation, from river bank. Restricted access.	None	20+	B1	55	4		
G119 (P)*	0819	Mixed Species Group	N/a	12	280#	1	4	1 4	4 4	4	1	1 East	EM	Fair	Fair	Multistem from base forming spreading crown, extensive ivy cover, surrounded by dense yegetation. from river bank. Restricted across	None.	10+	C2	34	3		
120*	0820	Ach (Common)	Fravinus quealeias		200				4 2			4 50.15		Peer	Deer	Three stems from base forming suppressed crown, extensive ivy cover, crown dieback,	Allow to dealine patrically						
120*	0820	Asn (Common)	rraxinus excelsior	9	290	3	4	4	4 3	3	4	4 South	EM	Poor	Poor	Hymenoscyphus traxineus intermediate stage, from river bank edge.	Allow to decline naturally	<10	0	41	4		
121* 122*	0821 0822	English Elm English Elm	Ulmus procera Ulmus procera	10	320	1	3	3 4 3 3	4 3 3 3	2	5	4 North 4 North	EM	Dead	Dead Dead	Single stem and scaffold limbs, from river bank edge. Single stem and scaffold limbs, from river bank edge.	Fell	<10 <10	U	48	4		
123* 124*	0823	English Elm Sycamore	Ulmus procera Acer	11	280	1	3		1 2 4 4	1	4	4 North 3 North	EM	Dead	Dead	Single stem and scaffold limbs, from river bank edge.	Fell	<10	U B1	34	3		
	0024		pseudoplatanus			1	- °			-	Ļ	North			200	bank edge.				1.57			
125*	0825	sycamore	Acer pseudoplatanus	15	650	5	9		8 6	4	4	3 North	м	Fair	Fair	Multistem from base forming suppressed asymmetric spreading crown, extensive ivy cover, from river bank edge.	None	20+	81	191	8		
126	0826	Ash (Common)	Fraxinus excelsior	18	800	1	6	5 7	7 6	7	4	3 West	м	Fair	Fair	Multistem from base forming spreading crown, extensive ivy cover, surrounded by dense vegetation, from bank adjacent to river.	None	20+	B1	290	10		
6127*	0927	Mixed Species Group	N/a	16	200	1			5 5			2 North		Ente	Fair	Linear group growing from bank adjacent to river comprising sycamore, ash and elm forming part	None	50.		41	4		
012/*	0827	wixed species Group	iv/u	16	300	1	S			ì	4	3 North	EM	Fair,	Fair	suppressea spreading crowns, extensive ivy cover, some dead and dying stems.	None	10+	02	41	4		
H128	0828	Mixed Species Group	N/a	1.5	150	1	1		1 1	1	1	1 North	EM	Fair	Fair	Managed hedge comprising predominately sycamore, ivy and dense vegetation throughout, from garden property boundary.	Remove 5 linear metres for access.	10+	C2	10	2	Agree hedge removal is necessary for the works	
129	0829	White Willow	Salix alba	4	130#	1	1	L 1	1 2	2	2	2 South	SM	Fair	Fair	Two leaders from 1m forming compact crown, limb damage, from garden lawn. Restricted access.	None	10+	C1	7	2		
130	0830	White Willow	Salix alba	7	250#	4	2	2 2	2 2	1	1	1 West	EM	Fair	Fair	Multistem from 1m forming fastigiate crown, from garden lawn. Restricted access	5. None	20+	B1	28	3		
								1			1												

Client	DDC Censulting	IV 9 Iroland																			_	2
Project / Site	Clopaslee Flood	UK & Ireland Relief Scheme																				
Reference	23-527-01		-																			
Survey Date	23rd-25th Januar	y 2024	-																		John Horris A	rberisultarat Consultan
Abreviation	Definition		Age Class					Physiolog	gical Con	dition			Structural	Condition		Category			U.L.E	Sub categor	y	
н	Height (m)		Y (Young)	Newly plant	ed (<10 yrs ol	ld)		Good	No obviou	us health pro	oblems		Good	No visible defects		A	High value and conservation		40+	1	Mainly arboricult	tural
Stem Dia.	Stem diameter (n	nm) (m)	SM (Semi-mature)	First third of Second thin	f life expectan	cy tancu		Fai	Intervention Serious ill	on may impr	rove health		Fair	Defects may requi	ire intervention	B	Moderate value and conservation		20+	2	Mainly landscap	e
L.B.H	Lowest (significan	nt) branch height (m)	M (Mature)	Full age for	species	unoy			Conodo III	i notalar or aj	,g		1 000			U	Not suitable for retention		<10		manny oundra	
L.B.D	Direction of lowes	st (significant) branch	OM (Over mature)	Beyond life	expectancy &	in decline																
U.L.E	Minimum useful I	life expectancy (yrs)	V (Veteran)	Ancient cha	aracteristics or	conservation val	lue			Prefix	c			-	G - Group H	- Hedgerow V	- Woodland P - Tree is on private land *Tree is not on topographical survey and therfore position remains	indicitive # Measurements estimated (tree is inacce	ssible)			
Tree No.	Tag No	- Encoinc	Rotanical Name	H (m)	Stom	No of	L Cr	own Core	ad (m)			1.0.0	LED	4.00	Physiological	Structural	Commente	Percommondations	1 11 5	Cat	DDA (m2)	DDA Dadial
1166 140.	rag no.	Opecies	Dotanical Name		Dia.	Stems	N	E	s s	w	/ (m)	(m)	1.0.0		riyalological	outdetural	Commenta	Recommendations	0.2.2	out.	Ki A (iii2)	distance (m)
			Prunus cerasifera														Multistem from base forming fastigiate compact crown, from garden lawn.					
131	0831	Purple Plum	'Pissardii'	4	180#	1	2	1	1	1	1	1	North	м	Fair	Fair	Restricted access.	None	10+	C1	14	2
132*	0832	Sitka Spruce	Picea sitchensis	14	300#	1	3	3	1	4	3	3	West	EM	Fair	Fair	Single stem forming suppressed asymmetric crown, extensive ivy cover, from bank	None	10+	C1	41	4
4228	0022	Citile Course	Of a set of the formation		260#										E e la		adjacent to river. Restricted access.	Need	20.		20	
133*	0833	Sitka Spruce	Piced sitchensis	14	260#	1	1 ²	3	2	3	3	3	west	EM	Fair	Fair	Single ivy clad stem forming part suppressed compact crown, from river bank. Restricted access.	None	20+	81	28	3
134*	0834	Sitka Spruce	Picea sitchensis	14	300#	1	2	3	2	3	3	3	West	EM	Fair	Fair	Single ivy clad stem forming part suppressed compact crown, from river bank.	None	20+	B1	41	4
																	Restricted access.					
135*	0835	Sitka Spruce	Picea sitchensis	14	200#	1	1	2	1	2	3	3	West	EM	Fair	Fair	Single ivy clad stem forming heavily suppressed crown, from river bank. Restricted access.	None	10+		18	2
136*	0836	Sitka Spruce	Picea sitchensis	12	280#	1	3	3	2	3	3	3	West	EM	Fair	Fair	Single ivy clad stem forming heavily suppressed compact crown, from river bank.	None	10+	C1	34	3
	0027	Characterization and the	d and a second	4.5	400#				-				11/	<u> </u>	E e la		Restricted access.	Denne Charles for several	40.		-	
H137	0837	Shrubby Honeysuckie	Lonicera sp.	1.5	100#	1	1	1	1	1	1	1	west	M	Fair	Fair	boundary. Restricted access.	Remove 5 linear metres for access.	10+		5	1
138	0838	Lawson Cypress	Chamaecyparis	18	525#	4	3	4	3	3	2	5	East	м	Fair	Fair	Four ivy clad stems from 1m forming spreading crown, crown raised, from hedge	None	20+	B1	125	6
		and the for	lawsoniana														within garden. Restricted access.					
139	0839	Wild Cherry cultivar	'Plena'	16	300#	1	4	5	4	4	3	4	East	EM	Good	Good	Single stem forming spreading crown, from garden lawn. Restricted access.	None	20+	81	41	4
140	0840	Beech (Common)	Fagus sylvatica	9	180#	1	3	3	3	3	2	2	West	SM	Good	Good	Single stem forming compact crown, from garden lawn. Restricted access.	Fell for access.	10+	C1	14	2
141*	0841	Apple	Malus so	9	250#	3	3	1	2	3	2	2	West	FM	Fair	Fair	Three stems from base forming compact crown from garden Jawn Restricted access	None	10+		28	3
				-		-	-	-	-	-	_	-					······································					-
G142	0842	Sitka Spruce	Picea sitchensis	25	550#	1	6	6	6	6	2	2	West	м	Fair	Fair	Group of 12 stems forming a double row from river bank boundary, 3 mature stems with the remainder	None	20+	B2	137	7
																	early mature, single stem part suppressed crowns forming a cohesive shared crown. Restricted access.					
													<u> </u>									
143	0843	Stags Horn Sumac	Rhus typhina	3	130#	1	1	1	1	1	1	1	North	EM	Fair	Fair	Multistem from base forming compact crown, from garden lawn. Restricted access.	None	10+		/	2
H144	0844	Hawthorn (Common)	Crataegus	1.5	100	1	1	1	1	1	1	1	East	EM	Fair	Fair	Managed hedgerow with extensive ivy and dense vegetation, forming field boundary.	Remove 5 linear metres for access.	10+	C2	5	1
145*	0945	Ach (Common)	monogyna Fravious excelsion	11	220	1	5	6	2	2	,	1	Eart	EM	Enir	Enir	Single stem forming suppressed asymmetric crown, extensive issues over surrounded	Nore	10+		49	4
145	0045	Asir (commony	Traxinas excension		520	1	1	ľ	-	5	Ĺ	-	Last	LIVI	1 dii	1.011	by dense vegetation, from river bank edge.	None	101		40	
																	Managed hedgerow comprising predominately hawthorn with occasional willow, suppressed by dense					
H146	0846	Hawthorn	Crataegus sp.	1	100	1	1	1	1	1	1	1	East	SM	Poor	Fair	vegetation, from field boundary.	None	10+	C1	5	1
147 (P)	0847	Rowan	Sorbus sp.	4	170#	3	2	2	2	2	1	1	North	EM	Fair	Fair	Multistem from base forming spreading crown, from garden lawn. Restricted access.	None	10+	C1	14	2
149 (0)	0949	Laurean Consers sultivar	Chamasaunasis		160#	Multistom	1		1	1	1	1	North	514	Fair	Fair	Multistam from have forming conical compact scours, from garden laws, Destricted	Nees	10.		10	2
140 (F)	0040	cawson cypress cultival	lawsoniana cv.		100#	waitistem	L 1	1 1	1	-	1	-	North	Livi	1 dii	1 411	access.	None	10+		10	-
149 (P)*	0849	Monterey Cypress	Cupressus	5	150#	Multistem	2	2	2	2	1	1	North	SM	Fair	Fair	Multistem from base forming compact crown, surrounded by dense vegetation, from	None	10+	C1	10	2
	0050	Portune -	macrocarpa		400				-						F-1-		garden. Restricted access.	New	40.			
H150	0850	Privet	ovalifolium	1	180	Multistem	1	1	1	1	1	1	west	EM	Fair	Fair	Managed nedge forming field boundary to road.	None	10+	12	14	2
		•				•									Area 3: Tullamore Ro	ad & ICW						
		1	1	-			-				1			<u> </u>	1		Two leaders from 2m forming part suppressed spreading crown extensive inv cover deray pockets from	1				
151*	0851	Beech (Common)	Fagus sylvatica	15	800	1	7	7	7	7	2	2	West	м	Fair	Fair	stem wounds, surrounded by dense vegetation, from field boundary.	Fell to facilitate proposal.	20+	B3	290	10
1528	0953	Grah Anala	Malus subjectsis	6	260	2				2	1	1	West		Fair	Fair	Two stores from have forming suppressed compact eroup, extensive in source	Nees	101		29	2
132	0652	ciab Apple	watas sylvestris	0	200	2		2 ²	2	2	1	1	West	M	Fdil	Fail	surrounded by dense vegetation, from field boundary.	None.	104		20	3
153*	0853	English Elm	Ulmus procera	15	350	1	2	1	4	6	9	3	South	м	Dead	Dead	Single stem with scaffold limbs, from dense field boundary.	Allow to decline naturally	<10	U	55	4
154*	0854	Alder (Common)	Alnus glutinosa	15	412	3	5	6	1	3	3	2	North	м	Fair	Fair	Three stems from base forming heavily suppressed asymmetric crown, extensive ivy	None	10+	C1	72	5
155*	0855	Sycamore	Acer pseudoplatanus	16	560	2	6	6	2	4	2	2	West	м	Fair	Fair	Two stems from base forming asymmetric suppressed crown, extensive ivy cover, crown dieback , from	None	10+	C1	137	7
																	river bank edge.					
156*	0856	Sycamore	Acer pseudoplatanus	17	690	2	6	8	3	7	3	3	West	м	Fair	Fair	I wo stems from base forming part suppressed spreading crown, ivy clad, historic large stem removals at base with associated decay. from stream bank edge.	None	20+	В1	222	8
																						-
157*	0857	Sycamore	Acer	17	300	1	3	1	2	4	4	4	West	EM	Fair	Fair	Single stem forming suppressed compact crown, ivy clad, from stream bank edge	None	10+	C1	41	4
158*	0858	Sycamore	Acer	17	530	1	3	8	3	7	4	3	West	EM	Fair	Fair	Single stem forming part suppressed spreading crown, ivy clad, from river bank edee.	None	20+	B1	125	6
			pseudoplatanus																			
159*	0859	Sycamore	Acer	17	400	1	1	8	5	5	5	5	East	EM	Fair	Fair	Single stem forming suppressed asymmetric crown, ivy clad, from river bank edge.	None	20+	B1	72	5
			pseudoplatanus		-							_					Two stems from base forming broad spreading crown. included bark union at					
160*	0860	Beech (Common)	Fagus sylvatica	25	910	2	7	8	6	5	4	4	West	м	Good	Fair	bifurcation with extensive natural bracing above, surrounded by dense vegetation, from river bank edge.	None	40+	A1	366	11
161*	0861	Alder (Common)	Alnus alutinosa	4	240	2	2	1	3	4	2	2	West	FM	Fair	Fair	Multistem from base forming asymmetric suppressed crown surrounded by deere	None	10+	C	28	3
101	0001		- inter grannost		240	Ĺ	Ĺ	Ĺ			Ĺ	-		2141		100	vegetation, from top of field edge mound.		101		20	
162*	0862	Alder (Common)	Alnus glutinosa	9	200	1	1	1	2	4	4	4	West	SM	Fair	Fair	Single stem forming asymmetric compact crown, surrounded by dense vegetation, from top of field edge	None	10+	C1	18	2
					-		-			_							mound. Multistem from base forming spreading crown, included back union at main hifurcation 1m					
163*	0863	Ash (Common)	Fraxinus excelsior	15	290	3	4	3	1	4	5	4	West	EM	Fair	Fair	surrounded by dense vegetation, from river bank edge.	None	10+	C1	41	4
164*	0000 1	Sucamore	Acar	10	300	1	-		2		-		West	514	Fair	Tel:	Single stem forming part programmed as markets areas	Nees	10		41	
164*	0864	sycamore	pseudoplatanus	14	290	1	1	2	3	5	,	5	west	SM	Fair	Fair	single stem romming part suppressed asymmetric crown, extensive ivy cover, from river bank edge.	None	10+	u	41	4
			Acer pseudoplatanus														Two leaders from 2m forming asymmetric suppressed crown, ivy clad, bark inclusion at bifurcation, decay					
165*	0865	Sycamore		14	340	1	3	3	3	4	2	2	East	EM	Fair	Fair	pocket at base from previous pruning, from stream bank edge.	None	20+	B1	55	4
													<u> </u>				Two leaders from 2m forming suppressed heavily asymmetric crown, bark inclusion at bifurcation,					
166*	0866	Beech (Common)	Fagus sylvatica	16	350	1	6	6	2	2	3	3	East	EM	Fair	Fair	surrounded by dense vegetation, from river bank edge.	None	20+	B1	55	4
167*	0867	Hawthorn (Common)	Crataegus	6	280	1	3	1	3	4	2	2	West	м	Fair	Fair	Multistem from base forming part suppressed spreading crown, ivy clad,	None	10+	C1	34	3
			monogyna														surrounded by dense vegetation, from stream bank.					
168*	0868	Alder (Common)	Alnus glutinosa	18	450	2	4	5	4	5	9	5	West	м	Fair	Fair	Two stems from base forming part suppressed spreading crown, extensive ivy cover, from stream bank	None	20+	B1	92	5
169*	0869	Sycamore	Acer	15	240	1	4	6	4	4	3	3	South	EM	Fair	Fair	Single stem forming part suppressed crown, primary limbs entwined with adjacent	None	20+	B1	28	3
			pseudoplatanus														stem, from river bank edge.					
170*	0870	Beech (Common)	Fagus sylvatica	17	490	1	5	8	4	5	3	3	South	EM	Good	Fair	single swept stem forming part suppressed spreading crown, from edge of river bank.	None	40+	A1	113	6
																	Two leaning stems from base forming suppressed crown, extensive lower stem decay W, dead					
171*	0871	Grey Willow	Salix cinerea	10	470	2	1	4	5	2	5	2	South	ОМ	Poor	Poor	primary limb E stem, from river bank edge.	Allow to decline naturally	<10	U	102	6
172*	0872	Hawthorn (Common)	Crataegus	6	320	1	3	1	3	4	2	2	West	м	Fair	Fair	Single stem forming part suppressed spreading crown, extensive ivy cover, crown	None	10+	C1	48	4
			monogyna										-				dieback, from top of boundary mound.					
173*	0873	Beech (Common)	Fagus sylvatica	15	440	1	5	6	4	3	6	5	East	EM	Fair	Fair	Single swept stem forming part suppressed spreading crown, ivy clad, surrounded by dense vepetation. from river back edge	None	20+	B1	92	5
174*	0874	Sycamore	Acer	15	310	1	5	3	3	5	4	3	West	EM	Fair	Fair	Single stem forming part suppressed spreading crown, from river bank edge.	None	20+	B1	41	4
			pseudoplatanus								1											

_	

	RPS Design Comments	Updated Recommendations
	Agree hedge removal is necessary for the works	
	Agree felling is likely to be necessary to complete the works.	
	Should be reassessed at Construction when accessway is set out and discussed with landowner	
	A second state and the second state and second state and second states and second states and second states and s	
	Agree neage realitival is necessary for the works	
	Agree felling is necessary for the works	
_		
-		

Client	RPS Consulting	JK & Ireland																				-
Project / Site Reference	23-527-01	Relief Scheme																		_		
Survey Date Abreviation	23rd-25th Januar Definition	y 2024	Age Class					Physiolog	ical Condit	tion			Structural	Condition		Category			U.L.E	Sub catego	Solar Horris	irberitatut Consultan
H Stem Dia.	Height (m) Stem diameter (n	nm)	Y (Young) SM (Semi-mature)	Newly plan First third o	ited (<10 yrs ol of life expectan	ld) icy		Good Fai	No obvious h ntervention	health prot may impro	blems ove health		Good Fair	No visible defects Defects may requ	ire intervention	A B	High value and conservation Moderate value and conservation		40+ 20+	1	Mainly arboricul Mainly landscap	tural pe
C.C L.B.H	Crown clearance Lowest (significar	(m) ht) branch height (m)	EM (Early mature) M (Mature)	Second thi Full age for	rd of life expect r species	ctancy		Poor	Serious ill he	ealth or dy	ring		Poor	Dangerous or no	remedy	C U	Low value and conservation Not suitable for retention		10+ <10	3	Mainly cultural	
L.B.D	Direction of lowes	t (significant) branch	OM (Over mature)	Beyond life	expectancy &	k in decline	alue			Profix					G. Group, H	Hedgerow M	. Woodland P. Tree is on private land "Tree is not on topographical survey and therfore position remain	indicitive # Measurements estimated (tree is inacc	essible)			
Tree Me	Tan Na	Creation	Deterinel Name	III (m)	L Charm	I Ma af			- d (m)	- TONK			L D D		Dhusiala sizel	Chrusturel		Decomposite Compared process		10-4	DDA (2)	
Tree No.	Tag No.	Species	Botanical Name	H (m)	Dia.	No of Stems	N	e E	s	w	(m)	(m)	L.B.D	Age	Physiological	Structural	Comments	Recommendations	U.L.E	Cat.	RPA (m2)	distance (m)
175*	0875	Sycamore	Acer pseudoplatanus	14	420	1	3	7	5	6	4	3	West	м	Fair	Fair	Single stem forming part suppressed spreading crown, extensive ivy cover, pocket of crown dieback, from river bank edge.	None	20+	B1	82	5
176*	0876	Alder (Common)	Alnus glutinosa	14	300	1	2	5	4	4	4	4	West	EM	Fair	Fair	Single stem forming part suppressed spreading crown, ivy clad, surrounded by dense vegetation, from river bank edge.	None	20+	B1	41	4
177*	0877	Sycamore	Acer pseudoplatanus	16	480	1	5	6	5	6	3	3	West	EM	Fair	Fair	Two separate stems forming one cohesive spreading crown, reduced crown vitality, ivy clad, surrounded by dense vegetation, , from river bank edge.	None	20+	В1	102	6
									-+					<u> </u>		<u> </u>	Single stem forming part suppressed spreading crown, crown dieback, Hymenoscyphus fraxineus					<u> </u>
178*	0878	Ash (Common)	Fraxinus excelsior	16	340	1	3	3	5	5	7	6	West	EM	Poor	Poor	intermediate stage, surrounded by dense vegetation, from stream bank edge.	Allow to decline naturally	<10	U	55	4
1/9*	0879	Hawthorn (Common)	Crataegus monogyna	5	300	1	2	1	3	3	2	2	West	м	Fair	Fair	Single stem forming part suppressed compact crown, extensive ivy cover, surrounded by dense vegetation, from field edge mound.	None	10+	6	41	4
180*	0880	Sycamore	Acer pseudoplatanus	15	570	1	3	5	5	5	2	2	South	м	Poor	Fair	Single stem forming part suppressed spreading crown, extensive ivy cover, from river bank edge.	None	20+	B1	150	7
181*	0881	White Willow	Salix alba	20	620	5	5	9	7	8	5	5	South	м	Good	Fair	Five separate suckering and layering stems from base forming a cohesive spreading crown, ivy clad, surrounded by dense vegetation, from river bank edge.	None	20+	В1	177	8
							-										Woodland understory comprising hazel, hawthorn ,holly, alder, sycamore and ash, ivy clad, occasional					
W182*	0882	Mixed Species Group	N/a	14	280	1	4	4	4	4	1	1	West	EM	Fair	Fair	dead and dying stems, from river bank to middle of field edge mound.	Part removal to facilitate access.	20+	B2	34	3
183* 184*	0883	Alder (Common) Alder (Common)	Alnus glutinosa Alnus glutinosa	4	160 140	5	2	1	2	1	2	2	North North	SM	Fair Fair	Fair Fair	Five stems from base forming compact crown, from open grass. Two stems from base forming compact crown, from open grass.	None	10+	C1 C1	10	2
185*	0885	Alder (Common)	Alnus glutinosa	5	190	4	2	2	2	2	2	1	North	SM	Fair	Fair	Three stems from base forming compact crown, from open grass. Multistem from base forming asymmetric spreading crown, decay main leaders, partial collapse und	None	10+	C1	18	2
186*	0886	Alder (Common)	Alnus glutinosa	5	400	1	5	5	3	2	1	1	North	ОМ	Fair	Poor	own spreading weight, from field boundary	None	10+	C1	72	5
187*	0887	Hawthorn (Common)	Crataegus monogyna	3	300	1	7	2	1	2	1	2	North	м	Fair	Poor	Two stems from base forming asymmetric crown, extensive ivy cover, partial collapse under own spreading weight, from filed boundary fence.	None	10+	C1	41	4
188*	0888	Hawthorn (Common)	Crataegus	5	570	2	4	4	4	4	2	1	North	OM	Fair	Fair	Multistem from base forming suppressed crown, extensive ivy cover, surrounded by	None	10+	C1	150	7
			monogyna Crataegus monogyna				+		-								dense vegetation, from field boundary fence. Multistem from base forming asymmetric suppressed crown with extensive ivy cover, surrounded by					
189*	0889	Hawthorn (Common)		5	400	1	2	3	2	4	2	1	North	м	Fair	Fair	dense vegetation, from field boundary fence.	None	10+	C1	72	5
190*	0890	Hawthorn (Common)	Crataegus monogyna	5	400	1	3	3	3	4	2	1	North	м	Fair	Fair	Multistem from base forming suppressed crown with extensive ivy cover, surrounded by dense vegetation, from field boundary fence.	None	10+	C1	72	5
191*	0891	Grey Willow	Salix cinerea	15	490	5	,	6	5	5	1	1	South	м	Fair	Fair	Multistem from base forming spreading crown, wy clad, surrounded by dense vegetation, from boundary bank.	None	20+	81	113	6
192*	0892	Alder (Common)	Alnus glutinosa	17	460	5	5	6	5	5	2	1	South	м	Fair	Fair	Multistem from base forming spreading crown, ivy clad, surrounded by dense vegetation, from boundary bank.	None	20+	B1	92	5
193*	0893	Alder (Common)	Alnus glutinosa	13	530	5	5	5	5	5	2	1	South	м	Fair	Fair	Multistem from base forming spreading crown, ivy clad, surrounded by dense vegetation, from boundary bank.	None	20+	B1	125	6
G194*	0894	Mixed Species Group	N/a	10	300	1	5	7	5	5	1	1	South	м	Fair	Fair	Dense linear boundary group comprising predominantly white and grey willow with hazel, sycamore, hawthorn, blackthorn and alder, surrounded by dense vegetation, from bank and ditch.	None	10+	C2	41	4
195*	0895	Ash (Common)	Fraxinus excelsior	4	210	2	2	2	2	2	1	1	East	SM	Fair	Fair	Two leaders from 0.5m forming compact crown, from grass verge.	None	10+	C1	18	2
196	0896	Italian Alder	Alnus cordata	5	160	1	2	2	1	1	2	2	North	SM	Good	Good	Single stem forming compact crown, from grass verge.	None	10+	C1	10	2
197	0897	Rowan / Mountain Ash	Sorbus aucuparia	3	70	1	1	1	1	1	2	2	North	Y	Fair	Fair	Single stem forming suppressed compact crown, from grass verge.	None	10+	C1	3	1
198	0898	Scots Pine	Salıx alba Pinus sylvestris	3	100	1	1	4	1	1	2	3	North West	Y EM	Good Fair	Good Fair	Single stem forming spreading crown, from grass verge. Single stem forming suppressed compact crown, from grass verge.	None	20+	81 C1	41 5	4
200	0900	Silver Birch	Betula pendula	7	140	1	1	2	1	1	3	3	East	SM	Good	Good	Single stem forming compact crown, from grass verge. Single stem forming suppressed compact crown, Pseudomonas savastanoi pv.fraxini, crown dieback,	None	10+	C1	10	2
201	0901	Ash (Common)	Fraxinus excelsior	5	100	1	1	1	1	1	2	3	West	Ŷ	Poor	Fair	Hymenoscyphus fraxineus early stage, from grass verge.	Fell	<10	U	5	1
202	0902	Italian Alder Italian Alder	Alnus cordata Alnus cordata	4	60	1	1	1	1	1	2	1	North	Y Y	Fair Fair	Fair Fair	Single stem forming suppressed compact crown, from grass verge. Single stem forming suppressed compact crown, from grass verge.	None	10+	C1 C1	3	1
204	0904	Ash (Common)	Fraxinus excelsior	5	110	1	2	2	1	1	3	3	North	SM	Poor	Fair	Single stem forming part suppressed compact crown, stem wound fully occluded, from grass verge.	None	10+	C1	5	1
205 206	0905	White Willow Italian Alder	Salix alba Alnus cordata	15 8	280 140	1	5	4	3	4	3	3	West South	EM	Good Good	Good Good	Single stem forming spreading crown, from grass verge. Single stem forming spreading crown, from grass verge.	None	20+ 10+	B1 C1	34 10	3
207	0907	Ash (Common)	Fraxinus excelsior	7	130	1	2	2	2	1	2	2	South	SM	Poor	Fair	Single stem forming part suppressed compact crown, dieback, Hymenoscyphus fraxineus early stage, from grass verge.	None	<10	U	7	2
208	0908	Scots Pine	Pinus sylvestris	3	110	1	1	1	1	1	2	2	West	Ŷ	Fair	Fair	Single swept stem forming part suppressed compact crown, from grass verge.	None	10+	C1	5	1
209	0909	Ash (Common)	Fraxinus excelsior	7	160	1	2	2	2	2	3	3	North	SM	Fair	Fair	Single stem forming compact crown, from grass verge.	None	10+	C1	10	2
210 211	0910	Italian Alder White Willow	Alnus cordata Salix alba	4	110 310	1 2	1	2	1 4	4	2	2	East East	SM EM	Fair Good	Fair Fair	Single stem forming suppressed compact crown, from grass verge. Two stems from base forming spreading crown, from grass verge.	None	10+ 20+	C1 B1	5 41	1
212	0912	Scots Pine	Pinus sylvestris	3	100	1	1	1	1	1	2	2	West	Y	Fair	Fair	Single swept stem forming part suppressed compact crown, girdled roots, from grass verge.	None	10+	C1	5	1
213	0913	Ash (Common)	Fraxinus excelsior	8	160	1	2	2	2	2	3	3	South	SM	Fair	Fair	Single stem forming compact crown, from grass verge.	None	10+	C1	10	2
214	0914	Scots Pine	Pinus sylvestris	3	100	1	2	1	1	1	2	2	south	Y	Fair	Fair	Iwo leaders from 2m forming part suppressed compact crown, from grass verg	e. None	10+	C1	5	1
215	0915	Italian Alder	Ainus cordata	10	220	1	3	2	3	4	2	3	West	SM	Good	Good	Single stem forming compact crown, crown dieback, Pseudomonas savastanoi pv.fraxini main stem,	None	20+	81	23	3
216*	0916	Ash (Common)	Fraxinus excelsior	5	150	1	1	1	2	2	1	2	West	SM	Poor	Poor	Hymenoscyphus fraxineus intermediate stage, from grass verge.	Fell	<10	U	10	2
21/*	0917	İtalian Alder	Alnus cordata	11	220	1	3	3	2	2	3	3	East	SM	Good	Good	Single stem forming spreading crown, ivy clad, surrounded by dense vegetation, from young woodland edge.	None	20+	81	23	3
218*	0918	Scots Pine	Pinus sylvestris	5	140	1	2	1	1	1	3	3	West	Ŷ	Fair	Fair	Single stem forming suppressed crown, surrounded by dense vegetation, from young woodland edge.	None	10+	C1	10	2
219*	0919	Scots Pine	Pinus sylvestris	6	160	1	2	1	2	2	3	3	West	EM	Fair	Fair	Single stem forming part suppressed crown, surrounded by dense vegetation, from young woodland edge.	None	10+	C1	10	2
220*	0920	Scots Pine	Pinus sylvestris	6	170	1	2	1	2	2	3	3	West	EM	Fair	Fair	Single stem forming part suppressed crown, surrounded by dense vegetation, from young woodland edge	. None	10+	C1	14	2
221*	0921	Italian Alder	Alnus cordata	8	210	1	2	3	3	2	2	2	South	SM	Good	Good	Single stem forming spreading crown, ivy clad, surrounded by dense vegetation, from young woodland edge.	None	10+	C1	18	2
222*	0922	Italian Alder	Alnus cordata	5	160	1	2	2	2	2	2	1	South	SM	Fair	Fair	Multistem from 2m forming spreading crown, growing through security fence, surrounded by dense vegetation.	None	10+	C1	10	2
G223*	0923	Grey Willow	Salix cinerea	10	240#	2	4	4	4	4	4	2	North	EM	Fair	Fair	Linear group of multistem willow forming cohesive canopy, surrounded by dense vegetation, from river bank. Restricted access.	None	10+	C2	28	3
224* 225*	0924	Alder (Common) Italian Alder	Alnus glutinosa Alnus cordata	9	340 140	1	3	3	3	3	1	1	North South	M	Dead Fair	Dead Fair	Single stem with scaffold limbs, from river bank edge. Single stem forming compact crown, surrounded by dense veeetation. from river	Allow to decline naturally None	<10 10+	U C1	55 10	4
226*	0926	Italian Alder	Alnus cordata	6	140	1	2	2	2	2	2	1	South	SM	Fair	Fair	bank. Restricted access. Single stem forming compact crown, surrounded by rence vegetation from river	None	10+	. (1	10	2
227*	0927	Italian Alder	Alnus cordata	5	120	1	2		2	2	2	1	South	SM	Fair	Foir	bank. Restricted access.	None	10+		7	
227	0027	Italian Alder	Alnus cordata	,	140	1	2	2	2	2	2	1	South	CR4	Eniz	Eale	bank. Restricted access.	None	101		10	
228-	0928	Italian Alder	Aleus ed-t-	°	140		2	2	1	2	2	1	South	Ivic	Fdii'	rdif	bank. Restricted access.	None	10+		10	2
229*	0929		Amus coraata	°	150		2	2	1	2	2	1	South	Mc .	Fair	Fair	single stem romming compact crown, surrounced by dense vegetation, from river bank. Restricted access.	None	10+	u	10	2
230*	0930	Italian Alder	Ainus cordata	7	160	1	2	2	1	2	2	1	South	SM	Fair	Fair	Single stem forming compact crown, surrounded by dense vegetation, from river bank. Restricted access.	None	10+	C1	10	2



	RPS Design Comments	Updated Recommendations
_		
	Agree vegatation removal is necessary for the works	
_		
_		
_		
_		

Client Project / Site Reference	RPS Consulting I Clonaslee Flood R 23-527-01	UK & Ireland Relief Scheme	-																	Abba Parra	troorientaret Canualizaer		
Abreviation	Definition	Age Class				Physiolog	hysiological Condition				Condition		Category		U.L.E Sub category								
н	Height (m)		Y (Young)	Newly planted (<10 yrs old)				Good No obvious health problems			Good	No visible defects		А	High value and conservation		40+		Mainly arboricu	Itural			
Stem Dia.	Stem diameter (mm)		SM (Semi-mature)	First third of life expectancy			Fai Intervention may improve health			Fair	ir Defects may require intervention		В	Moderate value and conservation		20+		Mainly landsca)e	1			
C.C	Crown clearance (m)		EM (Early mature)	Second third of life expectancy			Poor Serious ill health or dying				Poor Dangerous or no		nedy C		Low value and conservation	10+ 3 Mainly cultural			1				
L.B.H	Lowest (significant) branch height (m)		M (Mature)	Full age for species									U	Not suitable for retention		<10							
L.B.D	Direction of lowest (significant) branch		OM (Over mature)	Beyond life expectancy & in decline																			
U.L.E	Minimum useful life expectancy (yrs)		V (Veteran)	(Veteran) Ancient characteristics or conservation value		lue		Prefix				G - Group H - Hedgerow W - Woodland P - Tree is on private land * Tree is not on topographical survey and therfore position remains indicitive # Measurements estimated (tree is inaccessible)						1					
Tree No.	Tag No.	Species	Botanical Name	H (m)	Stem	No of	Crow	wn Sprea	d (m)	C.C	L.B.H	L.B.D	Age	Physiological	Structural	Comments	Recommendations	U.L.E	Cat.	RPA (m2)	RPA Radial	RPS Design Comments	Updated Recommendations
					Dia.	Stems	N	E	S	w (m)	(m)										distance (m)		
231*	0931	Grey Willow	Salix cinerea	6	140	1	2	2	1	1 1	1	South	SM	Fair	Fair	Multistem from 1m forming compact crown, surrounded by dense vegetation, from river bank edge. Restricted access.	None	10+	C1	10	2		
232*	0932	Grey Willow	Salix cinerea	5	156	2	3	2	2	3 1	1	South	SM	Fair	Fair	Multistem from base forming spreading crown, from river bank. Restricted access.	None	10+	C1	10	2		
G233	0933	English Elm	Ulmus procera	14	300	1	5	5	5	5 5	5	South	EM	Dead	Dead	Linear group of roadside dead elm, plus one multistem ash with dieback, surrounded by dense vegetation, from boundary bank field boundary.	Fell	<10	U	41	4		

_