



**FLYNN
FURNEY**
ENVIRONMENTAL CONSULTANTS

Tree Report

Project: Maglin Greenway Phase 1

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1. Introduction

The following is a tree report of trees associated with the route of the proposed Maglin Greenway Phase 1. Trees that may be removed due to construction works for the proposed route were recorded. Details of the survey findings are outlined below. Hedgerow composition on boundaries were also recorded.

As the survey was conducted in January and February, deciduous trees had no leaf cover, which constrains species identification. However, the findings of this survey are deemed sufficient to ascertain the potential impacts of the proposed route and recommendations for the landscape design.

2. Route Outline

The route is predominately in an urban area. There is a short section that is located within a farmland setting. The route passes through two green areas associated with housing estates. These areas are amenity grassland with some associated tree planting. There are a number of treelines/hedgerows that have been recently removed at the eastern side of the development.



Figure 1: Route Area.

3. Results

There are a limited number of trees that will be affected by the proposed route. The majority are landscaped trees associated with the urban developments in the area. Some agricultural boundaries will be affected but the impacts here are not considered significant due to ongoing maintenance being carried out by local landowners.

A new housing development under construction at the time of survey has resulted in the loss of a significant hedgerow/treeline. The composition of this is unknown but is likely to be similar to those recorded below.

The impacts are detailed as to the likelihood of what the proposed route will require in terms of the construction footprint. All the trees/hedgerows detailed are those within that footprint.



Figure 2: Overall findings map.

The key areas are detailed below in Table 1.

Table 1: Tree/Hedgerow Survey Results.

No.	Type	GPS	Maturity	Detail	Impact
1	Hedgerow	51.87921, -8.57602	Semi-mature	3 no. Willow Sp. and 1 no. Elder. Forms the end of a mature field boundary. Already impacted by adjacent works.	Likely to be retained.
2	Hedgerow	51.87949, -8.57791	Mature	Gappy mature Blackthorn hedge, adjacent to works.	Likely to be retained.
3	Hedgerow	51.88045, -8.57911	Immature	4 no. cut Ash on eastern side of old avenue south of field entrance. More mature Ash and Hawthorn in treeline outside site.	To be retained where possible.
4	Hedgerow	51.88055, -8.57913	Mature	Blackthorn hedge on the eastern side of old avenue, north of the field entrance	To be retained where possible.
5	Tree and Hedgerow	51.88056, -8.57926	Mature	Sycamore tree and Blackthorn hedge. Western side of old avenue with the tree on field side, north of field entrance..	Sycamore may be removed. Hedgerow to be retained where possible.
6	Hedgerow	51.88045, -8.57927	Mature	1 no. Willow 4 no. Blackthorn (3 no. immature Ash) western side of old avenue. South of existing entrance.	To be retained where possible.
7	Tree	51.88049, -8.57939	Immature	Single Ash In field to west of avenue.	May be removed.
8	Scrub	51.88097, -8.58031	Mature	Blackthorn Scrub spreading into grass field.	Some will be lost in field margin.
9	Treeline	51.88109, -8.58042	Mature	Ash Treeline Hawthorn/Blackthorn.150m. Evidence of coppicing. Stone ditch underneath with Bramble and Blackthorn.	To be retained.
10	Trees	51.88129, -8.58128	Mature	2 no. large mature willow	May be removed for safety reasons.
11	Tree line	51.88132, -8.58122	Semi mature	4 no. cut poplar.	Likely to be retained.

12	Treeline	51.88129, -8.58128	Mature	5 no. large Poplars with understorey of Viburnum.	Likely to be retained.
13	Hedgerow	51.88091, -8.58126	Mature	Hawthorn, elder, bramble, backed by laurel in garden	May require pruning.
14	Scrub	51.88077, -8.58159	Mature	Blackthorn Scrub and bramble over stonewall	May require pruning.
15	Hedgerow	51.88078, -8.5817	Mature	Blackthorn, hawthorn, elder. Some mature hawthorns can be found in areas that have been cut or planted with laurel.	May require pruning.
16	Tree	51.88087, -8.58358	Mature	Mature ash with some bat potential on boundary	May be retained.
17	Tree	51.88087, -8.58365	Semi mature	Elder out from boundary	To be removed.
18	Trees	51.88074, -8.58384	Immature	Hawthorn, Blackthorn sparse along riparian zone	To be retained.
19	Treeline	51.88088, -8.58377	Mature	2 no. Mature Hawthorn, 1 no. mature willow , 2 no. immature Hawthorn	To be removed.
20	Trees	51.88091, -8.58393	Semi mature	Riverbank with semi mature alder, willow.	To be retained where possible.
21	Scrub	51.88097, -8.58387	Immature	Developing scrub with bramble, Dock, nettle	May require pruning.

22	Hedge	51.88136, -8.58331	Mature	Garden boundary hedge, dense. Some laurel and pheasant berry.	To be retained.
23	Deciduous Tree line/Hedgerow	51.88184, -8.58304	Semi-mature	1 no. Oak 1 no. Horse Chestnut 1 no. Silver Birch 1 no. Holly 1 no. Blackthorn	To be retained, except as necessary to provide pedestrian access to Limeworth estate. .
24	Ornamental Planting	51.88201, -8.5836	Semi-mature	There were 11 no. Cherry Blossom In green area, adjacent to proposed quiet road.	It is likely 7 no Cherry Blossom will be retained and 4 will be removed.
25	Treeline	51.88222, -8.58485	Semi-mature	Leylandii and Willow. Forms a boundary of single residence.	Likely to be retained.
26	Scrub	51.88259, -8.58588	Mature	Blackthorn Scrub, 80m in length. Along fence line of housing.	Likely to be retained.
27	Treeline	51.88223, -8.59196	Mature	45m of mature Leylandii trees along boundary of single residence.	May be removed with permission of landowner.

The results are summarised as follows.

Loss of hedgerows may be seen at sites 3, 4, 5 and 6. The impact here is reduced by the presence of two field entrances either side of the existing avenue. This avenue has well established boundaries along its length and is likely to be locally important to species such as commuting bats. Site 5 is likely to be impacted on with the potential loss of the sycamore to accommodate a potential future connection to a proposed development to the north of the greenway.

The Blackthorn scrub and Ash treeline at sites 8 and 9 are a nice habitat feature in the area. Root damage should be avoided where possible to the mature trees. There was no evidence of 'Ash dieback' during the survey. The blackthorn is spreading into the field.

There are two mature willows at site 10 beside the poplar trees at sites 11 and 12. These are leaning into the field and may require removal.

Two boundaries that have been planted with trees are located at sites 11 and 12. The poplars at site 11 have been topped. The Poplars at site 12 are mature and are a feature at this end of the housing estate. The route will likely not have any impact on these trees. The trees are in good condition and do not appear to have any bat roost potential.

The boundary of the residences to the Southern end of Limeworth estate at sites 13, 14 and 15 are dense and may be trimmed back but should be retained where possible. Some of the boundary, along site 15, moving east has been cleared (45m) and is not as dense as you progress westwards. There are some mature hawthorns along the boundary that can be retained. There is a further length (30m) of laurel along the boundary of the last residence to the west.

The tree at site 16 is a large ash that has some damage on its northern side. This tree may require removal on safety grounds. It may also have some bat potential.

Sites 17 and 19 will need to be removed. There are mature hedgerow species of elder, hawthorn, willow and blackthorn with a dense understorey of similar plants.

Site 18 is along the riparian zone on the watercourse. It is quite open as most of the dense hedgerow growth is on the southern side of the river.

Site 20 is the next riparian zone to the west of the proposed route. The alder and willow here may be retained to act as a buffer to the watercourse. Site 21 is developing scrub dominated by briars and may require some pruning.

Site 22 is hedging dominated by laurel. There is some pheasant berry growing in 3 locations. This is an invasive alien plant species.

Site 23 is an old field boundary that has been supplemented with native planting. The species are well mixed and the route will only have an impact, through the loss of some of these trees, to provide pedestrian access to Limeworth estate.

The Cherry Blossom trees at site 24 have no associated planting. It is likely 7 will be retained and 4 will be removed.

The Leylandii at sites 25 and 27 are located along the boundaries of individual residences. The removal of these would have a positive ecological impact. Removal is subject to landowner permission. They are located quite close to the route at site 27 where they are causing a significant shading effect.

Table 2: Tree Species recorded on site.

Native	
Common Name	Scientific name
Ash	<i>Fraxinus excelsior</i>
Oak	<i>Quercus robur</i>
Holly	<i>Ilex aquifolium</i>
Silver Birch	<i>Betula pendula</i>
Hawthorn	<i>Crataegus monogyna</i>
Blackthorn	<i>Prunus spinosa</i>
Willow	<i>Salix spp.</i>
Elder	<i>Sambucus nigra</i>
Non Native	
Common Name	Scientific name
Horse Chestnut	<i>Aesculus hippocastanum</i>
Poplar	<i>Populus sp.</i>
Cherry Blossom	<i>Prunus sp.</i>
Beech	<i>Fagus sylvatica</i>
Leylandii	<i>Cupressus × leylandii</i>
Sycamore	<i>Acer Psuedoplatanus</i>

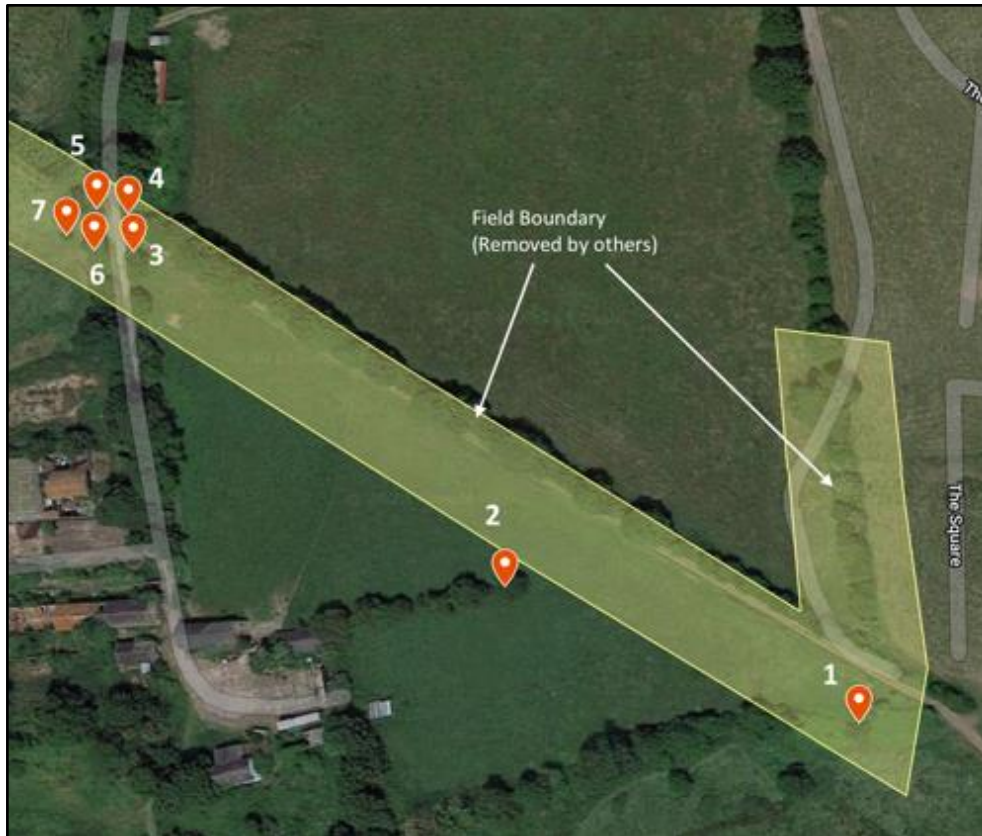


Figure 3: Results for eastern section.



Figure 4: Results for fields east of Limeworth.



Figure 5: Results for fields south of Limeworth and Carriganarra Estate. Riparian section.



Figure 6: Results in Carriganarra Estate.



Figure 7: Results in Glincool.



Figure 8: Results for western end at Maglin Rd.

4. Recommendations

The exact impact of the proposed route on the trees listed above may be ascertained when the route progresses to the detailed design stage. Native trees will be retained where possible. The route of associated fencing will determine which trees or hedging will be retained or not.

There will be scope to mitigate any loss to the trees and hedgerows listed above. Linear planting along the greenway fence line and boundaries offers a lot of scope. This planting will include some standards such as Oak, Scots Pine and Silver Birch. Linear planting of hedgerows should be made up of a native species mix. This will help form a wildlife corridor that will benefit species such as songbirds and bats.

Root protection of trees to be retained will be considered. Damage to more than ¼ of a tree's root zone is to be avoided. Any large tree roots exposed by works will be left with a clean cut. Exposed roots will be covered with hessian prior to back filling.

5. Photographic Record



Photo 1: Site 1.



Photo 2: Sites 5 and 6 looking at single ash at site 7.



Photo 3: Sites 8 and 9.



Photo 4: Sites 13 on the left, looking north at site 10, 11 and 12.



Photo 5: Site 15.



Photo 6: Ash tree at Site 16.



Photo 7: Site 19 and 18 (elder on the right).



Photo 8: Site 25.



Photo 9: Site 26.



Photo 10: Site 27.