

Re: Tree Root Report for Trenching Investigation_r1

Site Address: Alyndene, Chester Road, Rossett.

Date: 12 · June · 12

Drawing ref no: DW/CR/R/TS/A_r5 [BS: 5837 Tree Survey dated: 14. 05. 11]

Location of the tree/s: One Yew tree **T-09** situated in the adjacent Church Yard and including various cut tree stumps within the site and on the west stone wall boundary.

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1. Introduction:



I have been asked by Mr. David Robson to undertake a Tree Survey Report, to establish if any of the roots found in a 4m in length trench x 400mm depth belong to the mature Yew tree **T-09** as seen on the **BS: 5837** Tree Survey undertaken in **14. 05. 11** and situated in the Church grounds.

2. Site visit:

The site was visited on **Saturday 7th April** with the collection of data being undertaken the same day.

3. Site trench area description:

There is an approximate 200mm drop in ground level on the Church side of stone boundary wall. Soil within the trench is a sandy loam.

4. Collection of data:

4.1 The collection of data was undertaken by assessing the position of the tree roots within the trench in relation to the four cut tree stumps along the length of the cut trench, which provides adequate space to establish any presence of Yew tree roots.

Image 1 – Overview of the trench looking south east

4.2 Tree and shrub roots were seen at various levels within the trench, with fine feeder roots 2mm diameter occupying the upper 100mm.

4.3 Roots 25mm in diameter were seen at approximately 200mm in depth. Below this were more substantial roots of 40mm in diameter.

4.4 After brushing off the surface soil, the texture of 25mm & 40mm diameter roots within the trench were seen to display the same texture pattern. To establish these roots came from the adjacent tree stump, the soil was dug out to follow the tree roots. This established that these tree roots with this texture pattern came from the Oak tree Stump **T-10**.

4.4 To confirm the roots as seen in Image 2 belong to **T-10** a small section of bark / stem tissue was removed to display the pink colour that is associated with Oak tannins for dye.



4.5 Underneath the 40mm diameter Oak tree roots within the trench were several similar size roots that displayed a different texture pattern.

4.6 As the ground was being dug to trace these roots with a different texture pattern back to their trunk they broke apart and were all found to be dead tree roots.

4.7 It is considered that these dead tree roots came from T-08 an Oak tree that has been felled and reported to be in fair / poor condition with 30% dieback.

Image 2 – View of the roots traced back to the cut stump of T-10 at the boundary wall

5. Conclusions:

5.1 The ground level within the church yard is at an approximately 200mm lower level than the ground containing the trench in front garden of Alyndene adjacent to the boundary wall.

5.2 None of the tree roots located within the trench belongs to the Yew tree.

5.3 Standing in the trench looking upwards as seen in Image 4 to the left illustrates the level of pruning required.



Image 3 – Dead tree roots considered to belong to T-08.

5.4 This pruning is required to facilitate the approved development and should be undertaken to maintain a minimum 1m branch clearance between building line and Yew tree branches as seen in Image 4 to the right.

5.5 The Yew tree should be carefully cleared by the Church's grounds maintenance team of Ivy; as it is forming clumps within the canopy and will disfigure the canopy if left un-checked.

5.6 The trench is 400mm deep. Therefore the lower 200mm is below the ground level in the churchyard. If roots from the Yew had grown into the Site, I would expect to see evidence of them within this area. As the ground in the bottom of the trench appears to be wholly undisturbed by root action, I conclude that the Yew tree's actual root area lies wholly within the Churchyard and not within the Site



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Image 4 – Standing in the trench looking upwards.