

ROOT DNA FINGERPRINTING TEST REPORT

22 Russet Glade, Emmer Green, Reading, RG4 8UJ

4th July 2024

Our Ref: SUB190402-4095 – DNA Test
Client: Crawford & Company
Client Reference: SU1901097 / 1779439

On 14th June 2024 tree samples were taken from nearby oaks T2, T3, T5, T7 and TG2 oaks B, C and D of MWA Arb Report 02.01.2024. Another large oak was also noted on the far side of the neighbour's garden and this was sampled as T10. It was not previously recorded but a sample was taken as it was readily accessible.

CET conducted the site investigation and 5 attempts were made to excavate boreholes to the rear of the extension. The first 4 were abandoned as samples could not be recovered. The ground was composed of a mixture of sand and pebbles which were thought to be infill and fell from the auger, preventing recovery and infilling the hole as the auger was removed.

Roots were recovered from the final excavation. This was located almost directly to the rear of the angle on the rear wall at a distance of 1.60m. This placed it 900mm above the ground level of the property. Roots were recovered to a depth of approx. 2000mm. This will place them below the footings as shown in the site investigation. Please see 'CET SI Report (DNA Testing) 14.06.24' for further details.

Results

DNA was extracted from the samples and five variable microsatellite markers were used to generate a DNA fingerprint for each of the samples. All the samples, roots and twigs, produced a clear DNA fingerprint.

The roots all generated the same DNA fingerprint and can therefore be considered to be from the same tree.

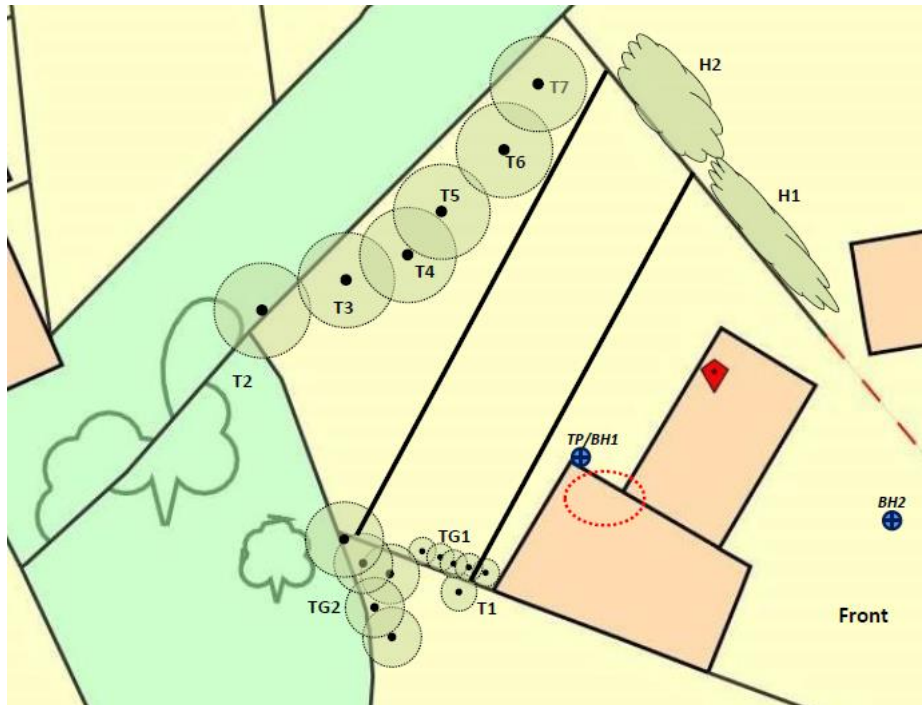
Tree TG2 C generated the same DNA fingerprint as the roots and so can be considered to be the source of the roots.

Trees T2, T3, T5, T7, T10, TG2 T2 and TG2 B & D generated different DNA fingerprints and did not match the roots. Please see 'Forest Research Oak DNA Results 27.06.24' excel report for further details.

DNA Testing carried out by the Genetic Conservation Group, Forest Research, Roslin

MWA Arboriculture Ltd

Site Plan (MWA Arboricultural Report)



Site Plan – TG2 breakdown



Plan not to scale – indicative only

Approximate areas of damage

Images



View of TG2