

LEGEND Dark Line

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TREERADAR Root Locator

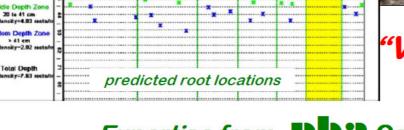








"Virtual Trench" Face



Expertise from DDA Consulting www.pba-consulting.co.uk Bryn Gardens, Liss, GU33 7HB. T: 01730 893460



TREERADAR Root Locator



Background

Ground-Penetrating Radar (GPR) has been in use for over 30 years as non-invasive subsurface investigation technology to "see" what is underground without excavations! It is used to locate objects underground including engineering and environmental targets. It can also provide sub-surface information on historical land use including past cultivations/excavations and now, tree roots!

GPR for Tree Roots: how does it work?

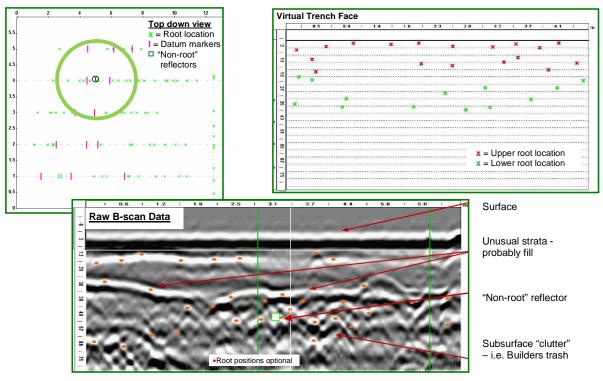
- When a GPR wave encounters a boundary between objects with different properties, it will reflect, refract, and/or diffract from the boundary in a predictable manner
- TreeRadar[™] GPR instrumentation for subsurface structural root mapping is a recent innovative application; the software analyses electromagnetic differences and provides reliable data printouts on depth and location of tree roots. Roots in excess of 10mm diameter are detected.
- TreeRadar[™] GPR instrumentation also detects and analyses the electromagnetic differences in buried objects and services including plastic pipes, cables, and ducts; these are recorded as "non-root" reflectors.



Hand use of GPR on banks

The quantifiable results (data) provide technical information about tree root locations and condition, and, the subsurface environment.

How is the data provided? - Typical Root data printouts:-



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