



# CONSULTING SERVICES



**A SCIENTIFIC TREE CONSULTING  
BUSINESS WITH ROOTS REACHING  
BACK TO 1907**



**BARTLETT  
TREE EXPERTS**

SCIENTIFIC TREE CARE SINCE 1907



# ABOUT BARTLETT CONSULTING

Bartlett Consulting is a team of highly skilled individuals providing advice and consultancy services regarding trees and hedges. We provide a full scope of services to residential, commercial and public based clients in England and Ireland. We are a division of Bartlett Tree Experts, which was founded in 1907 to advance scientific tree care and has Research facilities in the UK and USA.

**BARTLETTTREE.CO.UK 01727 825 090**

## TREE REPORTS FOR SITE DEVELOPMENT

Securing planning permission can be complicated, and trees are just one of the many things that have to be considered. Ideally, Bartlett Consulting is engaged at an early stage of development to mitigate any issues.

Whether it is a commercial or residential project, we can provide services to facilitate your individual journey through the planning approval process and assure local planning authorities that an environmentally sensitive approach is being taken. Bartlett Consulting reports are in accordance with BS: 5837:2012 'Trees in relation to design, demolition & construction.'

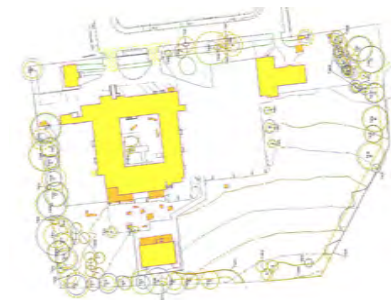
We do this work in two phases. The first is an arboricultural Impact Assessment that confirms which trees will be affected by the new building proposal using criteria set out in the British Standard. The assessment classifies the species, dimensions, longevity and amenity values of the trees and their root protection areas. This enables us to identify trees for retention or removal and also outline new tree planting opportunities that may enhance the potential of the scheme for approval.



Using data from the assessment, we are then able to provide a robust Tree Protection Plan and appropriate Method Statements to satisfy the tree-related planning conditions for site development.

## Mapping Services

Beyond the detail of the written report, we provide scaled plans showing colour coded amenity values, tree shade patterns, site constraints and specific tree protection measures.



## Site Supervision & Monitoring

Bartlett Consultancy's extensive experience in developing solutions to unusual site constraints provides developers and builders with invaluable assistance on difficult sites.

We offer site supervision or monitoring while work is taking place near trees, as well as site visits to discuss plans with designers, builders and the local tree officers. This reassures the local planning authority that good tree management and best practices are being used during the construction process and also helps the project run smoothly.

## Tree Reports for Smaller Scale Developments

Even though residential developments such as home extensions and new outbuildings are relatively small, as far as planning authorities are concerned the potential impact on trees is the same as on much larger sites. As such, it is necessary to assure the authorities that you are taking an environmentally sensitive approach. Bartlett Consulting can work closely with your designer or architect to facilitate your individual journey through the approval process. We provide Impact Assessment and Method Statements using the same thorough approach we take for larger developments, just on a smaller scale.

## At a Glance: Site Development Services

- Reports conforming to BS 5837:2012
- Site visits
- Scaled plans
- Bespoke Arboricultural Method Statements
- Air spade investigations
- Site supervision and monitoring
- Tree planting proposals
- Written advice







## PROPERTY DAMAGE REPORTS



Trees can have a negative impact on structures and hardscapes, causing distortion and cracking as a result of direct root-system contact. Additionally, structures built on top of certain soil types that are prone to shrinkage, such as clay, may suffer damage as a result of the effects of moisture extraction by roots from the soil.

Bartlett Consulting has considerable experience in identifying and assessing trees that are causing property damage. Recommendations for future management of these plants is based not only on the consultant's finding, but also on evidence from other available sources such as structural engineers' reports, soil tests results, level and crack monitoring reports and historical information.

## TREE PLANTING PROPOSALS

Bartlett Consulting can provide planting scheme proposals that include layouts of new tree locations, species, selection, planting and aftercare specifications. Planting the right tree in the right place will reduce the risk of property damage in the future.



## MORTGAGE & INSURANCE REPORTS

At the time of purchase, a Home Buyer's Survey is intended to highlight the presence of trees either on or adjacent to the property that pose a future risk to structures. Bartlett Consulting will visit a site to inspect the condition of these trees and assess any potential risk they pose to structures at the property. A report will be provided, as well as any recommendations for tree works. This can then be sent to a mortgage lender for clarification of the risk.

Sometimes insurers will request a tree report prior to renewing insurance to assess the risk of future damage to a property. The report may include direct damage, indirect consideration of damage, condition of the trees or some combination of these. We are well-versed in creating this type of report as well.



## TREE STOCK, CONDITION & MANAGEMENT PLANS

Bartlett Consulting regularly carries out tree surveys in which all significant trees are recorded and plotted onto a plan for future reference. The trees are tagged where appropriate, and data such as the species, dimensions, age, condition and defects are all noted. The final report provides summary tables of the tree stock with maintenance recommendations and a priority rating to enable effective budgeting.





# TREE HEALTH & SAFETY REPORTS

Bartlett conducts tree safety and hazard assessments based on best industry standards from the Arboricultural Association, D.C.L.G. and International Society of Arboriculture. Our own formalised methodologies were recently tested stringently and found to be the best standards internationally. Assessments include full visual tree inspections and are accompanied by soil and tree structure tests as necessary. Insect, disease and fungal pathogens are also identified when observed. Our Research Laboratory staff are able provide speedy diagnosis and identification of unusual pests and problems not easily assessed in the field.

We provide reports for single trees and can also assess hundreds of trees on a site, including entire tree stocks. Each report provides clear, concise evaluations of risk with recommendations for mitigation of any hazards and additional information and guidance where helpful.

## Aerial Inspections

Bartlett is able to provide full climbing inspections, and more recently we have also been using Quadcopters equipped with high resolution cameras for any unstable trees that may not be suitable for climbing.



## Internal Decay Testing

Should internal decay be suspected within a particular tree, we are able to undertake specialised testing to quantify the risk posed. We have two options for decay testing:



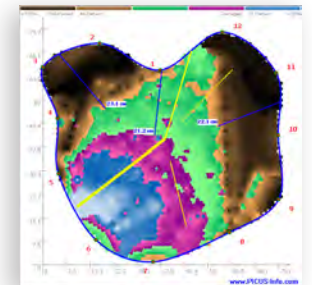
### Sonic Tomography

The PiCUS® sonic tomograph is an instrument that detects decay and cavities in trees non-invasively. Sound waves are used to assess the density of the tree stem. The results are picked up from an array of sensors circling the stem like a belt. A computer program then converts those readings into a colour-coded image of a cross-section of the stem. Each image clearly shows sound wood as well as varying levels of decay and hollows — all with no invasive damage to the tree.

With several tests, it is possible to produce a 3-dimensional image of a tree stem. This allows us to make an assessment of the mechanical progression of internal decay.

Results are instant, so when our consultant leaves your garden or site he knows exactly what the inside of

your tree looks like. Bartlett Consulting will provide a full report covering the interpretation of the tests combined with all of our standard comprehensive investigation results, presenting a complete story about the tree and recommendations for the best way forward.



### Resistograph Testing

This device is commonly used in scenarios where setting up the PiCUS® unit is impractical, such as when we are testing a branch or stem at a point that is far above ground level. The resistograph drills a micro-bit into a tree stem and measures the resistance of the timber against the drill. It produces a graphic representation of this resistance, which we evaluate to obtain information on levels of decay and unseen voids in the stem. By analysing resistograph readings from several angles on the same plane together, we have an accurate assessment of structural integrity at a certain point in the stem, similar to the results of the sonic tomograph.



# BARTLETT'S COMPLETE LINE OF TREE CONSULTING SERVICES

**Our Arboricultural consulting and report preparation services include:**

- Commercial & Residential Development Site Reports to BS5837: 2012
- Tree Reports for Insurance & Mortgage purposes
- Damage to Property/ Subsidence Risk Reports
- Tree Stock, Condition & Management Plans
- Climbing Inspections
- Planting Scheme Proposals
- Woodland Management
- Site Monitoring & Site Supervision
- Tree Vitality Assessments
- Internal Decay Tests
- Lean Monitoring Tests
- Soil Testing

Bartlett Tree Experts also offers a full range of preventive and remedial services such as pruning, fertilisation and pest management. Our tree care professionals have unmatched arboricultural expertise to help you develop, maintain and enhance your landscape.



GREAT BRITAIN | IRELAND | UNITED STATES | CANADA

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