# B. J. UNWIN FORESTRY CONSULTANCY

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Site: **Ladybarn House,**




No.2 Moseley Road, Fallowfield, Manchester, M14 6ND.

Subject: **BS5837 Tree Survey for proposed development including:-**

- **Tree Constraints on any proposed development.**
- **Arboricultural Implications of development.**
- **Tree Retention & Protection Method Statement.**

Surveyor: Jim Unwin Date: Dec 2011.


**Notes:**
**Copyright:** This report is copyright of BJUFC, and licensed only to the client, site and purpose(s) named above. Assignment will be made only at our discretion.
**Limitation of Report**:-The statements made in this Report do not take account of the effects of extremes of climate, vandalism or accident, whether physical, chemical or fire. BJUFC cannot therefore accept any liability in connection with these factors, nor where prescribed work is not carried out in a correct and professional manner in accordance with current good practice. The authority of this Report ceases at any stated time limit within it, or if none stated after two years from the date of the survey or when any site conditions change, or pruning or other works unspecified in the Report are carried out to, or affecting, the Subject Tree(s), whichever is the sooner.



stage 1 tree constraints

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stage tree constraints

## 1. Instruction

1.1 Owen Pask of Archial Architects, has asked B J Unwin Forestry Consultancy to advise on tree issues on a student residences site, subject to quote.

1.2 The local authority (Manchester City Council) will require a tree impact assessment and tree protection method statement. They may require mitigation by new planting for trees lost as part of development of the site.

1.3 Therefore methodology of the report below follows *BS5837:2005 Trees in Relation to Construction*.

## 2. Objectives of Tree Survey

2.1 Objectives of Tree Survey:-

- To provide an accurate measured survey of significant trees to *BS5837:2005 Trees in Relation to Construction*.
- In addition, the site's trees have been considered in their landscape setting, and photos taken to show internal and external parts of the site from various viewpoints.
- The report aims to inform decision-making of Architects and Planners to:-
  -incorporate worthy trees within any development plans and associated landscape schemes,
  -protect them during development and
  -assist with planning of ongoing tree maintenance.
  Please note, BS5837 is an iterative process: which cannot all be included in one report.

Stage 1:- Tree survey and preliminary constraints plan (TSCP).

Stage 2 has several sequential phases:-

- Design review to test proposed layout.
- Arboricultural Implications Assessment (AIS).
- Arboricultural Method Statement (AMS) & Tree Protection Plan (TPP).
- Discharging planning conditions.
- Implementation and supervision of tree work and protective measures.

So BS5837 requires an iterative progression interlocking with other specialists in the developer's team: plus interaction with the lpa staff (engineer, planner and tree officer).

- There is a development layout known to this surveyor.

stage 1 tree constraints

Therefore this report is stage 1 of the process: Survey and Constraints, AIS and AMS.

2.2 Archial has provided the following plans:-

- **Site Survey of southern part of site by N D Oliver Land Surveyors 7379 / 001 dated 10/11.**
- **Site plan as existing** by unknown author.
  Neither plan shows the whole site.
- Proposed site layout ???????????

stage 1 tree constraints

## 3. Survey

3.1 The survey was conducted from ground level, involving visual observation; and measurements of locations, crown spread in four directions, height and dbh with tapes and hypsometer (Visual Tree Assessment: Mattheck and Breloer, 1994 and Lonsdale, 1999). Bases of suspect trees were sounded with a hammer and probed for defects with a chisel and steel rod.

3.2 The survey included any trees within influencing distance of the site. Trees east of the buildings were located by us and added to the plans.

3.3 Survey was carried out on 10th December by Jim Unwin (Professional CV in appendices).

## 4. Results of Survey

### 4.1 Physical

4.1.1 Survey Site details:

The survey site is triangular, about 100m east-west by 50m north-south at the western end.

It comprises large L-shaped Ladybarn House four-storey student flats with some shops facing west. South of the building is an asphalt carpark. All were built around 1994.

East of the building and carpark is a triangular amenity area of grass and trees.

South-west of the building is a small shrubbery.

Local terrain is low-lying at about 39m aod, and flat with a slight fall south. Underlying Solid geology is Sherwood Sandstone Group. This is overlain by Glacial Till: of mixed texture. Therefore, subsoil should be firm and adequately-drained.

4.1.2 Recent Maintenance:
The site is well maintained.

## 4.2 Landscape Setting of the Site

4.2.1 Photos:
Please refer to photos in Appendix III.

4.2.2 Land uses beyond the site:-
On all sides are public roads.
Moseley and Wilbraham Roads are very busy.
Carill Drive is a quiet residential cul-de-sac.

4.2.3 Prominence of the site in the local landscape:-
The site is an extremely prominent town-centre site adjacent to busy roads, with well-used pedestrian footways all around.

## 4.3 Trees, hedges and large shrubs on or near site.

4.3.1 Trees on site:-

- Ash T5 is a large tree, and retained very boldly only 3.5m from the building. It now needs a little re-shaping to keep it safe in its cramped location.
- East of the building is a copse of trees. Age ranges from semi-mature to late-mature. The copse contains too many trees, and several are unsuitable (the ash).
- Large sycamore T28 has been retained only 4.2m from the building.
- The copse is dominated by old-ish ash trees which are etiolated (narrow and tall). All have been pruned, and some crown reduced. Condition varies, but they are not ideal town-centre trees. They should be removed as soon as possible.
- Between the ash are several limes, some suppressed by the ash, and all with much longer safe lives than the ash.
- Plane T27 has good potential, but has been pushed north by large sycamore T28, and plane T26, recently felled.
- Under these larger trees are smaller rowans, holly, etc.

4.3.2 Trees nearby:-

- Plane T6 has been pushed north east by ash trees on site.
- Three large planes line the north side of Moseley Road opposite.
- Young street trees stand west of the site.

4.3.3 Visual Amenity of Trees

- The site is located in a very prominent location.
- All trees on site, whether large or small, provide useful soft landscape to mask the bulk of Ladybarn House.

stage 1 tree constraints

## 4.4 Detailed Tree Descriptions

4.4.1 Trees **on, or potentially influencing** the site, are individually described in the table below, and shown on the plans in Appendix II.

- **Age class** is described as:-
  - Sap: Very young tree, or sapling, one-five years old.
  - Y: Young tree less than fifteen years old and <1/3 fully grown.
  - Sm: Semi-mature tree having attained 1/3 to 2/3 full stature and 1/3 to 1/2 estimated lifespan.
  - Em: Early mature: tree at 2/3 to virtually full size, and halfway through its safe life.
  - M: Mature: fully-grown tree with useful life expectancy.
  - Lm: Late-mature: fully grown, of declining vigour, but still healthy.
  - Om: Overmature tree: fully grown and starting to decline in health (but may still have many years of safe life).
  - Vet: Veteran: usually very old; of significant historic, habitat or cultural value.

- **Condition / Health:-** **Self-explanatory:-** G**ood,** F**air,** P**oor or** D**ead.**

- ***Remaining Safe Useful Life***

Prediction of safe life in its location, estimated as:-
<5 years, <10 years, 10-20 years, 20-40 years, >40 years.

- ***Retention*** *categories*, based on BS 5837 Section 4.3, are:-

Retain:

| | | |
|---|---|---|
| **A =** | *High quality or value >40yrs safe life*: | Light Green* |
| **B =** | *Moderate quality or value >20yrs safe life*: | Mid Blue* |
| **C =** | *Low quality or value >10yrs safe life or young trees <150mm stem diameter*: | Grey* |

Remove:

| | | |
|---|---|---|
| **R =** | *<10yrs safe life or should be removed for sound arboricultural reasons*: | Dark Red* |

(*Colour marking on relevant Tree plan)

***Sub-category for retention:-***

1 = Arboricultural Value
2 = Landscape Value
3 = Cultural and/or Habitat Conservation Value

- ***BS 5837:2005 Root Protection Area*:**

**THE RPA CAN BE A VARIED SHAPE * ENCLOSING THE CORRECT ROOTABLE AREA: but SHOWN AS A CIRCLE Because we cannot predict exact rooting. Calculated as:-**

**Single-stem** tree, radial distance **=** 12 x stem diameter at 1.5m ht.
**Multi-stem** trees = *either:* 12 x an equivalent single-stem tree with the same total cross-section area at 1.5m ht,
*or:* 10 x basal diameter.

*At the discretion of an arboriculturalist this area can be off-set by up to 20% in one direction for a free-rooting tree or to where it is considered roots are most likely to be.

stage 1 tree constraints

## 4.4.2 Ladybarn House - BS5837 pre-development tree survey – December 2011

| No | Species | Dbh (stem diameter @ 1.5m ht) cm. | Total height m. Ht to base of crown. m. Est Ht in 10 yrs. | Crown radii m. North east / South east / South west / North west | Age class | Cond-ition | SULE | Comment (All are in average to good health and condition, unless stated otherwise.) | Retention category A (best) to C. R = (remove) Sub-category 1, 2 or 3 | BS 5837 Root Protection Area for Work all around a tree m. + Moved distance by 20% if appropriate for work ON ONE SIDE ONLY. M | WORK excluding Development |
|---|---|---|---|---|---|---|---|---|---|---|---|
| H1 | Beech | 5 | 1.5<br>0<br>1.5 | 0.4m each side | Y | F | 20-40 | Trimmed hedge. | C2 | 1.0 | |
| T2 | Lime | 14 | 6<br>2<br>9 | 2<br>1.5<br>1.5<br>2 | Y | F | >40 | Tag 742. Planted. | C1 | 1.7<br>1.4 | |
| SG3 | Amelan-chier | 10 Basal | 4<br>1<br>5 | 1.5m external | Sm | F | 10-20 | Row of broadleaved shrubs. | C2 | 1.0 | |
| G4 | Street trees x 5 | 10 | 4<br>2<br>5 | 1.5m all round | Y | F | 10-20 | Rowan x 3, cherry x 1, hawthorn x 1. All in weldmesh shelters in street. | C1 | 1.2<br>1.0 | |

stage 1. tree constraints

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **T5** | **Ash** | **85** | **19<br>3<br>19** | **4<br>6<br>7<br>8** | **Lm** | **F** | **10-20** | **Huge tree retained 3.5m from building: brave.<br>Crown thinned previously. Now leggy.** | **B1** | **10.2<br>8.2** | **Reduce by 2m off height and west, south and east. Re-balance.** |
| **T6** | **London plane** | **57** | **12<br>4<br>12** | **5<br>8<br>4<br>4** | **Em** | **F** | **10-20** | **Street tree: tight to verge.<br>Road sides pruned.** | **B1** | **6.9<br>5.5** | **Reduce crown every five years as part of street-tree maintenance.** |
| **T7** | **Hawthorn** | **39** | **8<br>3<br>8** | **6<br>4<br>3<br>4** | **Lm** | **P** | **10** | **Off site in garden. Low fork: weak. Weight over road.** | **C1** | **4.7<br>3.8** | **Advise owner to reduce stem over road by 3m off spread and 2m off height.** |
| **T8** | **Ash** | **69** | **21<br>9<br>22** | **6<br>5<br>5<br>5** | **Lm** | **F** | **20-40** | **Small cavity base on north side.<br>Crown reduced previously.** | **B2** | **8.3<br>6.7** | |
| **T9** | **Ash** | **18** | **8<br>3<br>9** | **2<br>2<br>3<br>4.5** | **Sm** | **P** | **>40** | **Tag 744. Suppressed by others to north.** | **C1** | **2.2<br>1.8** | |
| **T10** | **Lime** | **40** | **15<br>2<br>16** | **1<br>3<br>4<br>2** | **Em** | **P/F** | **>40** | **Pushed south by ash T11.** | **B2** | **4.8<br>3.9** | |
| **T11** | **Ash** | **53** | **21<br>8<br>2** | **4<br>5<br>6<br>6** | **M** | **P** | **5** | **Mushrooms around base: not honey fungus, possibly *Pholiota squarrosa*, a white rot decay fungus.<br>*Inonotus hispidus* canker decay in stem at 7m. Spoiling limes to south and east.** | **C2 / R** | **6.4<br>5.1** | **Consider removing.** |
| **T12** | **Wild cherry** | **37** | **11<br>4<br>12** | **-2<br>3<br>8<br>1** | **M** | **O** | **5** | **Mushrooms around base: not honey fungus, possibly *Pholiota squarrosa*, a white rot decay fungus.<br>Lean south. Tag 749.** | **C2 / R** | **4.5<br>3.6** | **Consider removing.** |

Stage 1 : tree constraints

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **T13** | **Lime** | **49** | **19<br>5<br>20** | **4<br>5<br>6<br>2** | **M** | **F** | **20-40** | **Tag 750. Good, but pushed east by T11.** | **B1** | **5.9<br>4.7** | |
| **T14** | **Lime** | **36** | **15<br>3<br>15** | **0<br>4<br>8<br>0** | **Em** | **P/F** | **10** | **Extreme growth to south east. Tag 751.** | **C1** | **4.4<br>3.5** | |
| **T15** | **Norway maple** | **15** | **6<br>2<br>6** | **0<br>3<br>4<br>1** | **Sm** | **P** | **10-20** | **Tag 752. Small and suppressed.** | **C2** | **1.8<br>1.5** | |
| **T16** | **Lime** | **33** | **12<br>3<br>13** | **1.5<br>3<br>5<br>1.5** | **Em** | **F** | **>40** | **Tag 753. Slender.** | **B2** | **4.0<br>3.2** | |
| **T17** | **Hawthorn** | **11** | **5<br>2<br>5** | **1<br>2<br>1<br>1** | **M** | **P** | **10** | | **C1** | **1.3<br>1.1** | |
| **T18** | **Ash** | **62** | **16<br>5<br>16** | **5<br>9<br>5<br>2** | **Om** | **P** | **<10** | **Low vigour. Spoiling trees under.** | **C1 / R** | **7.5<br>6.0** | **Consider removing.** |
| **T19** | **Holly** | **25** | **8<br>2<br>9** | **3<br>4<br>2<br>1** | **M** | **F** | **20-40** | **Tag 755. Grown to north east. Suppressed by T18.** | **C1** | **3.0<br>2.4** | |
| **T20** | **Rowan** | **10** | **6<br>2<br>7** | **2<br>1<br>0<br>1** | **Em** | **P** | **10** | **Suppressed.** | **C1** | **1.2<br>1.0** | |
| **T21** | **Rowan** | **12** | **6<br>2<br>7** | **2<br>1<br>0<br>1.5** | **Em** | **P** | **10** | **Suppressed.** | **C1** | **1.5<br>1.2** | |
| **T22** | **Rowan** | **20** | **8<br>2<br>9** | **2<br>1<br>2<br>4** | **Em** | **F** | **10-20** | | **C1** | **2.4<br>2.0** | |

Stage 1. tree constraints

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| T23 | Ash | 58 | 21<br>9<br>21 | 9<br>5<br>4<br>3 | Lm | P | 10 | Tag 756. Low vigour. Crown over road. | C1 | 7.0<br>5.6 | |
| T24 | Ash | 65 | 21<br>10<br>21 | 6<br>4<br>5<br>7 | M | P/F | 10-20 | Tag 757. Tall.<br>Has been crown thinned. | B2 | 7.8<br>6.3 | |
| T25 | Rowan | 20 | 9<br>2<br>9 | 2<br>2<br>3<br>2 | M | F | 10-20 | Old wound on trunk: occluding. | C1 | 2.4<br>2.0 | |
| T26 | London plane | 50 | | | | | | Stump. Plane felled 2010. | | n/a | |
| T27 | London plane | 59 | 11<br>5<br>19 | 9<br>2<br>0<br>5 | M | F | >40 | Tag 760. Grown to north. Pushed by sycamore T28 and plane recently removed. | B1 | 7.1<br>5.7 | Reduce all of crown over road by 4m lateral and 2m off height to re-balance. |
| T28 | Sycamore | 60 | 18<br>4<br>18 | 7<br>3<br>7<br>8 | M | F | 10-20 | Tag 761.<br>Retained only 4.2m from building: brave.<br>Pushing T27 to north. | C1 | 7.2<br>5.8 | Crown reduce by 2m off height and 2m off wider sides. |
| T29 | Norway maple | 18 | 7<br>2<br>7 | 4<br>3<br>4<br>3 | Sm | P | 20-40 | Tag 762. Suppressed. | C2 | 2.2<br>1.8 | |

**End of Table.**

stage 1: free constraints

Sections to be added to stage 2 report:-

| | |
|---|---|
| **5.0** | **Arboricultural Constraints, Impacts of proposed development on trees, and vice versa.** |
| 5.1 | Proposed development. |
| 5.2 | Tree Constraints and Impacts. |
| 5.3 | Physical contact of above-ground parts of trees. |
| 5.4 | Below-ground root spread. |
| 5.5 | Shading. |
| 5.6 | Over-bearing & falling material. |
| 5.7 | Heave. |
| **6.** | **Arboricultural Method Statement for proposed development.** |
| 6.1 | Supervision. |
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| 6.2.1 | Tree Work prior to ground work:- |
| 6.2.2 | Treework informatives. |
| 6.3 | Tree Protection. |
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| 6.3.2 | Vertical Tree Protection. |
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| 6.5 | Demolition. |
| 6.6 | Foundations within RPA. |
| 6.7 | Drainage. |
| 6.8 | Service Trenches. |
| 6.9 | Minimal-dig construction for new access drive / parking. |
| 6.10 | Tree Work following construction and any hard landscaping of the site:- |
| 6.11 | New Landscaping. |
| **7.** | **Conclusions.** |

If client or local authority have any further queries please do not hesitate to contact us.

Yours sincerely, Jim Unwin

B. J. Unwin Forestry Consultancy

Stage 1: tree constraints

**References:**

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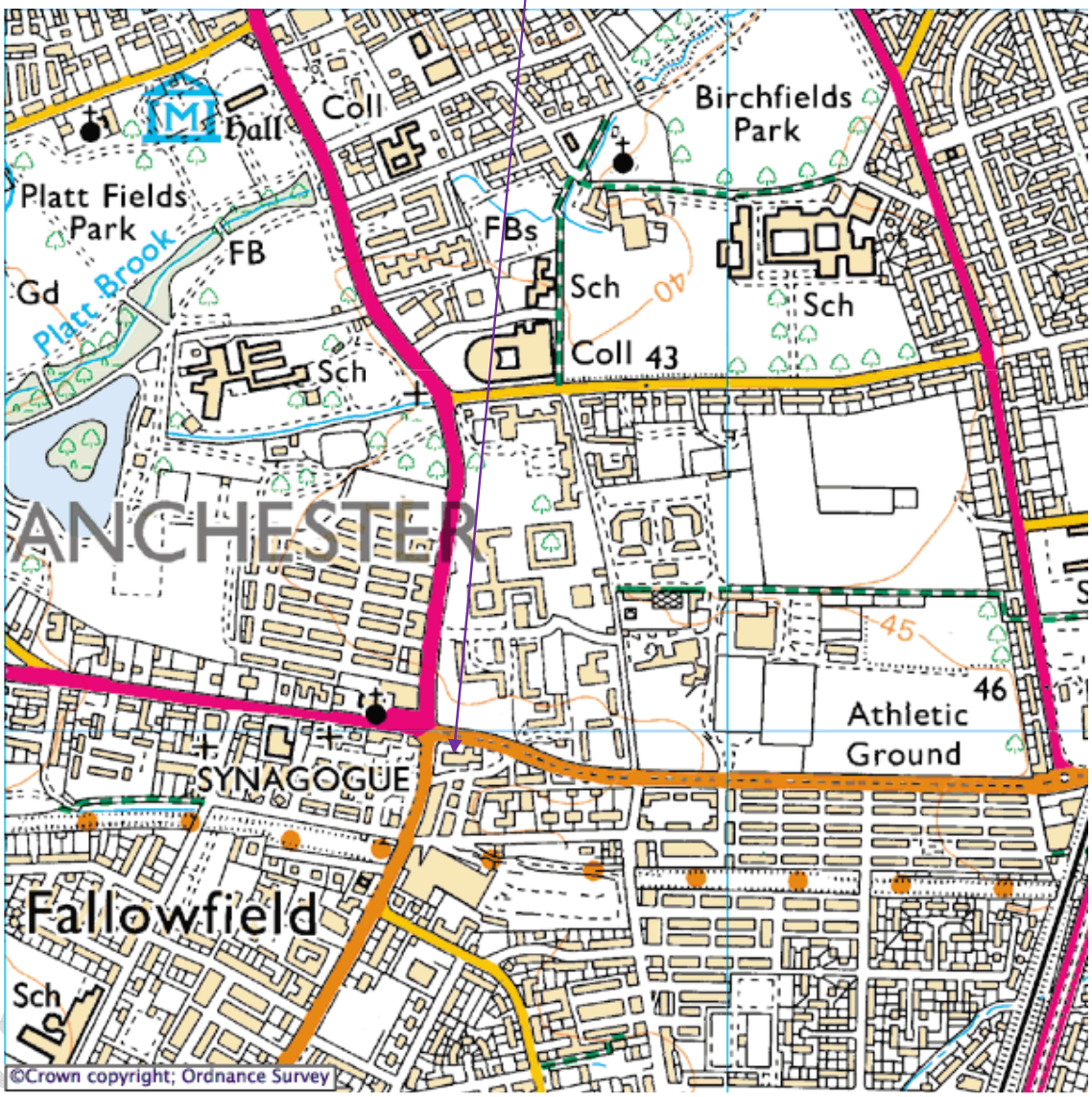
**Appendix I**

## Site location:



## Aerial photo.

**Not up-to-date with trees.**



**Appendix II**

Constraints plans :-

- **Tree Plan**

***Retention categories*, based on BS 5837 Table 1:-**

**A = *High quality & Value (>40yrs life)*: Green.**

**B = *Moderate quality & Value (>20yrs life)*: Blue.**

****C = *Low quality & Value (>10yrs life)*: Grey.**

**R = *Trees to be removed (<10yrs life)*: Red.**

****PLEASE NOTE. FOR CLARITY, C-CATEGORY TREES MAY NOT BE COLOURED.**

- **Root Protection Areas Plan**

**RPA = circles.**
Outer ring is protection zone for work all around a tree,
Inner circle is protection zone for work one side only.
**See Tree Table for dimensions.**

**and**

- **Theoretical Shading Plan**

= quadrant of tree height in ten years' time from north west (mid-morning) to due east (evening). This is a shadow pattern for 1 x tree height from 10.00-18.00hrs from May to September.

***Separate plans are not included in pdf format of report.***
***Insert plans here in paper copy of report:-***

stage 1: tree constraints

**Appendix III**

## 3 x Photos:-



**P1: View west to copse. Off-site hawthorn T7 on left. Off-site plane T6 on right. Holly T19 centre.**

stage



**P2: View north east. Ash T8 left foreground.**



**P3: View west. Small rowan T22 left, then sycamore T28, kinked plane T27, rowan T25, and ash T24 far right.**

**Appendix X**


## B J UNWIN FORESTRY CONSULTANCY,

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***Chartered Forester,***
***Fellow of the Arboricultural Association,***
***Arboricultural Association Registered Consultant***
***Chartered Environmentalist.***


| | |
|---|---|
| *From:* | **Jim Unwin** |
| *To:* | **Prospective Client** |
| *Date:* | **June 2011** |
| *No. of pages:* | **2** |
| *Subject:* | **Professional CV** |

Below are set out **B J Unwin Forestry Consultancy**'s capabilities and experience.

**Insurance:-**
**£5m Public Liability** (renewed July) & **£2m Professional Indemnity** **(renewed August)**.

**Personnel:-**
B J Unwin (born 1956) started his forestry career as a tree surgeon and landscape contractor in 1975. He studied forestry at Aberdeen University from 1977 to 1981, worked for Unilever as a Forestry Manager in the Solomon Islands from 1981 to 1983. Since then he has been based in Gloucestershire assisting clients to manage their woodland, trees and vegetation throughout Southern Britain, and occasionally in northern England, Scotland and Northern Ireland. He works as a tree consultant / manager / contract manager to a range of clients listed below.
He works with one employed Level-3 arboriculturalist of sixteen years' experience (**Jasper Fulford-Dobson** Professional Member of AA, NatDip Arb BTEC, Tech Cert Arbor.A), plus a secretary/technician; calling in extra help as required (eg ecologist or arboricultural assistant to TechCert standard). On bigger projects he regularly works as a part of a multi-disciplinary team.

Current BJU qualifications are:-
BSc Forestry Hons 1st Class, Aberdeen 1981.
**Chartered Forester, 1986.**
**Fellow of the Arboricultural Association, 1995.**
Licensed Subsidence Risk Assessor, 1997-2001 (scheme closed in 2001).
Completed Training in September 2002 to Prepare Native Woodland Plans for CCW and FC in Wales.
**Arboricultural Association Registered Consultant, 2004.**
LANTRA certificate for Arboriculture and Bats, BJU in 2005, JF-D in 2009.
Examined and approved to submit Welsh WGS as Management Planner and PAWS Assessor, 2006.
Joined Utilities Vendor DataBase, Supplier No: 88101 in Feb 2006.
Training and Certification in basic CAD operation 2006.
Chartered Environmentalist April 2008.

Subject to contract constraints

Woodfuel Production and Supply : LANTRA Certificate of Training Dec 2008.
Training in CAVAT amenity tree asset valuation October 2010.

**Company Safety Policy**:- We have been successfully assessed by SMAS as meeting CDM Regs Core Criteria Stage 1, as a ***Worksafe Consultant No. 15774***. Dated 03/06/2011.

Current clients and typical work include:-

| | |
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| Amey Mouchel Ltd | Overseeing Amey Tree Officer on motorway and trunkroad tree inspections throughout Midlands and Marches.<br>Amey Mouchel are agents for Highways Agency. |
| Tarmac Ltd, Midland Quarry Products & Quarryplan (in Northern Ireland). | Since 1990 working with Estates staff, quarry managers and Landscape / ecological consultancies organising and managing contracts for tree and woodland planting both pre- and post- quarrying. Also preparing landscape restoration schemes for straightforward sites plus landscape management on sites throughout southern England, East Anglia and south and south-west Wales. (Commendations for Land Restoration and Environmental improvements from Spelthorne Borough Council 2003.) Also in Northern Ireland ongoing tree consultancy for Quarryplan. |
| English Heritage | Appointed Tree Inspector for all EH sites in SE England, London, Eastern England and East Anglia, for five years from April 2007. |
| Bruton Knowles | Assisting BK clients with woodland management and other tree issues since 1984. |
| Tarmac Central Ltd | Since 1988 woodland management of Hopwas Hays Wood, Tamworth. |
| Planning Inspectorate & Dept for Communities and Local Government. | **Arboricultural Inspecting Officer** in South-West England, South East England, West Midlands and East Midlands; advising the First Secretary of State on TPO appeals since 2000. Contract with DCLG expired April 2008.<br>Contract continued with PINS, as **Arboricultural Decision Officer**. |
| Rural estates in Herefordshire, Worcestershire and Gloucestershire, plus private woodland owners in southern England and Wales. | Since 1983 woodland management, tree management, hedgerow management. Many are Ancient woodlands and SSSI's requiring detailed ecological management plans produced in consultation with ecologists. About forty Farm Woodland Premium Schemes and about twenty Native Woodland Plans prepared to date in England and Wales.<br>On-going EWGS grant applications.<br>Input into Tir Gofal (and its successor) and Stewardship schemes.<br>Now doing Better Woods for Wales (BWW) applications. |
| British Waterways | Ten-year Tree and Vegetation Management Plans along canals and around reservoirs in London, Hertfordshire, Berkshire, Birmingham, Staffordshire, Worcestershire, Gloucestershire, Shropshire, Llangollen Canal, etc: plus help in dispute with riparian owners. This work is ongoing over the past fourteen years. |
| Stroud District Council | Management of 49Ha woodland since 1989 on FC schemes plus grassland on DEFRA Stewardship Schemes, including HLS. Retired Nov07. |
| One–off clients | Since 1983 assisting tree owners, developers, lawyers etc throughout southern or midland Britain, including Wales, on a wide range of tree-related issues including planning, planning appeals, subsidence, health & safety, disputes, vegetation control, expert witness, valuation of woodlands, standing and felled timber, Christmas trees etc, and tree and landscape planting schemes. Recently High Hedge issues and BS5837 are hot topics. |
| Architects / Developers / Planning Appeals | Complete Arboricultural Impact Assessments on simple sites: and working with other professionals to input arboriculture into more complex development schemes. Recent assignments from Liverpool to Wiltshire, Kent and Norfolk, London.<br>All using BS5837:2005. FULL CAD CAPABILITY. |
| Malvern Hills District Council.<br><br>South Oxfordshire District Council | BJU Stand-in part-time Consultant Tree Officer Summer 2003.<br><br>JF-D stand in Consultant Tree Officer summer 2009 to spring 2010. |
| Golf course & leisure facilities | Assistance with development of Carden Park golf course in Cheshire. Management of trees on other golf courses: Eg Ross Golf Club, Swindon Golf Club . |
| Farming | Management of non-cropped areas including woodland, hedgerows, Stewardship schemes (HIS, CSS, ELS, OELS) etc on owned 90Ha farm since 1988. |

Please do not hesitate to ask for further information. B J Unwin END.

Stage 1: tree survey