

<b>TREE SURVEY SCHEDULE FOR ARBORICULTURAL IMPACT APPRAISAL</b>	
<b>Site:</b>	Former Filling Station, Sawley Road, Chatburn, Lancashire, BB7 4AS
<b>Agent for Client:</b>	Sunderland Peacock & Associates Ltd

<b>Surveyor:</b>	Kendall Rigg HND TechArborA
<b>Survey Date:</b>	18 May 2015
<b>Job Ref:</b>	BTC852

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No.	Species	Height	Stem Diam.	Branch Spread	Branch & Canopy Clearances	Life Stage	PC	General Observations and Comments	Management Recommendations	ERC	Cat. Grade	RPA (m <sup>2</sup> )	RPA Radius (m)
T1	Ash	6	120	N E S W 2.5 1 2 2	3-N 3	Y	G	<ul style="list-style-type: none"> <li>Self-set tree located growing against a 1m high retainer wall in a small triangular planting bed.</li> <li>Slight stem lean west.</li> <li>Crown biased away from east due to presence of neighbouring tree.</li> <li>Limited future potential for growth.</li> </ul>		<10	U	7	1.44
T2	Sycamore	6	250	N E S W 4 3 3 4	3-W 3.5	SM	M	<ul style="list-style-type: none"> <li>Self-set tree growing 300mm from stone building.</li> <li>Two 150mm partially occluded bark wounds at a height of approximately 1.4m on north side of stem.</li> <li>Suppressed by crown of neighbouring tree.</li> </ul>		10+	C1	28	3
T3	Sycamore	17	1070	N E S W 9 8 4 9	2-SW 4	M	M/G	<ul style="list-style-type: none"> <li>Approximately 350mm deep by 150mm in diameter basal stem cavity to south-west.</li> <li>Bacterial cankers up stem to a height of approximately 11m.</li> <li>250mm un-occluded cavity at a height of approximately 3m on south side of stem.</li> <li>Stem bifurcates at a height of approximately 4m with very tight fork and canker on both sides of the union.</li> <li>1m x 500mm flush cut with 100mm<sup>2</sup> decay zone evident.</li> </ul>		10+	C1	518	12.84
G1	2no. Ash, 1no. Sycamore, 1no. Elder	≤ 6	≤ 160	N E S W ≤ 2 ≤ 2 ≤ 2 ≤ 2	0.1-N ≥ 0	Y	M-G	<ul style="list-style-type: none"> <li>Closely spaced group.</li> <li>Elder growing in fence line with very dense ivy up stem and into crown.</li> <li>Sycamore and Ash growing on eastern side of fence line, approximately 0.2 to 0.5m from existing concrete panel garages.</li> <li>Limited future potential for growth.</li> </ul>		<10	U	≤ 10	≤ 1.92

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**Headings and Abbreviations:**

<b>No.</b>	Allocated sequential reference number - Tree (T), Group (G), Woodland (W) or Hedge (H) reference number - refer to plan and to numbered tags where applicable
<b>Species:</b>	Common name
<b>Height:</b>	In metres, to nearest half metre - where possible approximately 80% are measured using an electronic clinometer and the remainder estimated against the measured trees. In the case of Groups and Woodlands the measurement listed is that of the highest tree
<b>Stem Diam.:</b>	Stem diameter in millimetres, to nearest 10mm - measured and calculated as per Annex C of BS5837:2012. MS = multi-stemmed, TS = twin-stemmed
<b>Branch Spread:</b>	Crown radius measured (or estimated where considered appropriate) from the four cardinal points (north, east, south and west) to give an accurate visual representation of the crown
<b>Branch &amp; Canopy Clearances:</b>	Existing height above ground level, in metres, of first significant branch and direction of growth (e.g. 2.5-N) and of canopy at lowest point - to inform on crown to height ratio, potential for shading, etc.
<b>Life Stage:</b>	Estimated age class - Y = young, SM = semi-mature, EM = early-mature, M = mature, PM = post-mature
<b>PC:</b>	Physiological Condition - a measure of the tree(s)' overall vitality, i.e. D = Dead, MD = Moribund, P = Poor, M = Moderate, G = Good
<b>General Observations and Comments:</b>	Comments relating to the tree(s)' overall condition and any other pertinent factors including structural defects, current and potential direct structural damage, physiological decline, poor form, etc.
<b>Management Recommendations:</b>	Either Preliminary or In Consideration of the Proposal - In the case of Arboricultural Constraints Surveys the recommended management works only take existing site and tree circumstances and conditions into account and not proposed developments. Arboricultural Impact Assessment and Method Statement related Surveys take the proposed development into consideration with recommendations made accordingly. More than one option may be given if considered appropriate
<b>ERC:</b>	Estimated Remaining Contribution - in years as per BS5837:2012 (i.e. <10, 10+, 20+, 40+)
<b>Cat. Grade:</b>	Category Grading - tree retention value listed as U, A, B or C - in accordance with BS5837:2012 Table 1
<b>RPA m<sup>2</sup>:</b>	Root Protection Area in m <sup>2</sup> - calculated area around the tree that must be appropriately protected throughout the development process in order avoid root damage
<b>RPA Radius (m):</b>	Root Protection Area Radius - in metres measured from the centre of the stem to the line of tree protection
<b># (Estimated Dimensions):</b>	Where trees are located off-site, or are inaccessible for any other reason, and accurate measurements or other information cannot be taken then the information provided is estimated and is duly suffixed with a '#' symbol

**BS5837:2012 Table 1 – Cascade Chart for Tree Quality Assessment**

Category and definition	Criteria (including subcategories where appropriate)			Identification on plan
<b>Trees unsuitable for retention</b> (see Note)				
<b>Category U</b>  Those in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years	<ul style="list-style-type: none"> <li>▪ Trees that have a serious, irremediable, structural defect, such that their early loss is expected due to collapse, including those that will become unviable after removal of other category U trees (e.g. where, for whatever reason, the loss of companion shelter cannot be mitigated by pruning)</li> <li>▪ Trees that are dead or are showing signs of significant, immediate, and irreversible overall decline</li> <li>▪ Trees infected with pathogens of significance to the health and/or safety of other trees nearby, or very low quality trees suppressing adjacent trees of better quality</li> </ul> Note: Category U trees can have existing or potential conservation value which it might be desirable to preserve; see BS5837:2012 paragraph 4.5.7.			Red
	<b>1</b>	<b>2</b>	<b>3</b>	
	Mainly arboricultural qualities	Mainly landscape qualities	Mainly cultural values, including conservation	
<b>Trees to be considered for retention</b>				
<b>Category A</b>  Trees of high quality with an estimated remaining life expectancy of at least 40 years	Trees that are particularly good examples of their species, especially if rare or unusual; or those that are essential components of groups or formal or semi-formal arboricultural features (e.g. the dominant and/or principal trees within an avenue)	Trees, groups or woodlands of particular visual importance as arboricultural and/or landscape features	Trees, groups or woodlands of significant conservation, historical, commemorative or other value (e.g. veteran trees or wood-pasture)	Green
<b>Category B</b>  Trees of moderate quality with an estimated remaining life expectancy of at least 20 years	Trees that might be included in category A, but are downgraded because of impaired condition (e.g. presence of significant though remediable defects, including unsympathetic past management and storm damage), such that they are unlikely to be suitable for retention for beyond 40 years; or trees lacking the special quality necessary to merit the category A designation	Trees present in numbers, usually growing as groups or woodlands, such that they attract a higher collective rating than they might as individuals; or trees occurring as collectives but situated so as to make little visual contribution to the wider locality	Trees with material conservation or other cultural value	Blue
<b>Category C</b>  Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150 mm	Unremarkable trees of very limited merit or such impaired condition that they do not qualify in higher categories	Trees present in groups or woodlands, but without this conferring on them significantly greater collective landscape value; and/or trees offering low or only temporary/transient landscape benefits	Trees with no material conservation or other cultural value	Grey

## DISCLAIMER

**Survey Limitations:** Unless otherwise stated all trees are surveyed from ground level using non-invasive techniques. The disclosure of hidden crown and stem defects, in particular where they may be above a reachable height or where trees are ivy clad or in areas of ground vegetation, cannot therefore be expected. All obvious defects, however, are reported. Detailed tree safety appraisals are only carried out under specific written instructions. Comments upon evident tree safety relate to the condition of said tree at the time of the survey only.

Unless otherwise stated all trees should be re-inspected annually in order to appraise their on-going mechanical integrity and physiological condition. It should, however, be recognised that tree condition is subject to change, for example due to the effects of disease, decay, high winds, development works, etc. Changes in land use or site conditions (e.g. development that increases access frequency) and the occurrence of severe weather incidents are also significant considerations with regards tree structural integrity and trees should therefore be re-assessed in the context of such changes and/or incidents and inspected at intervals relative to identified and varying site conditions and associated risks.

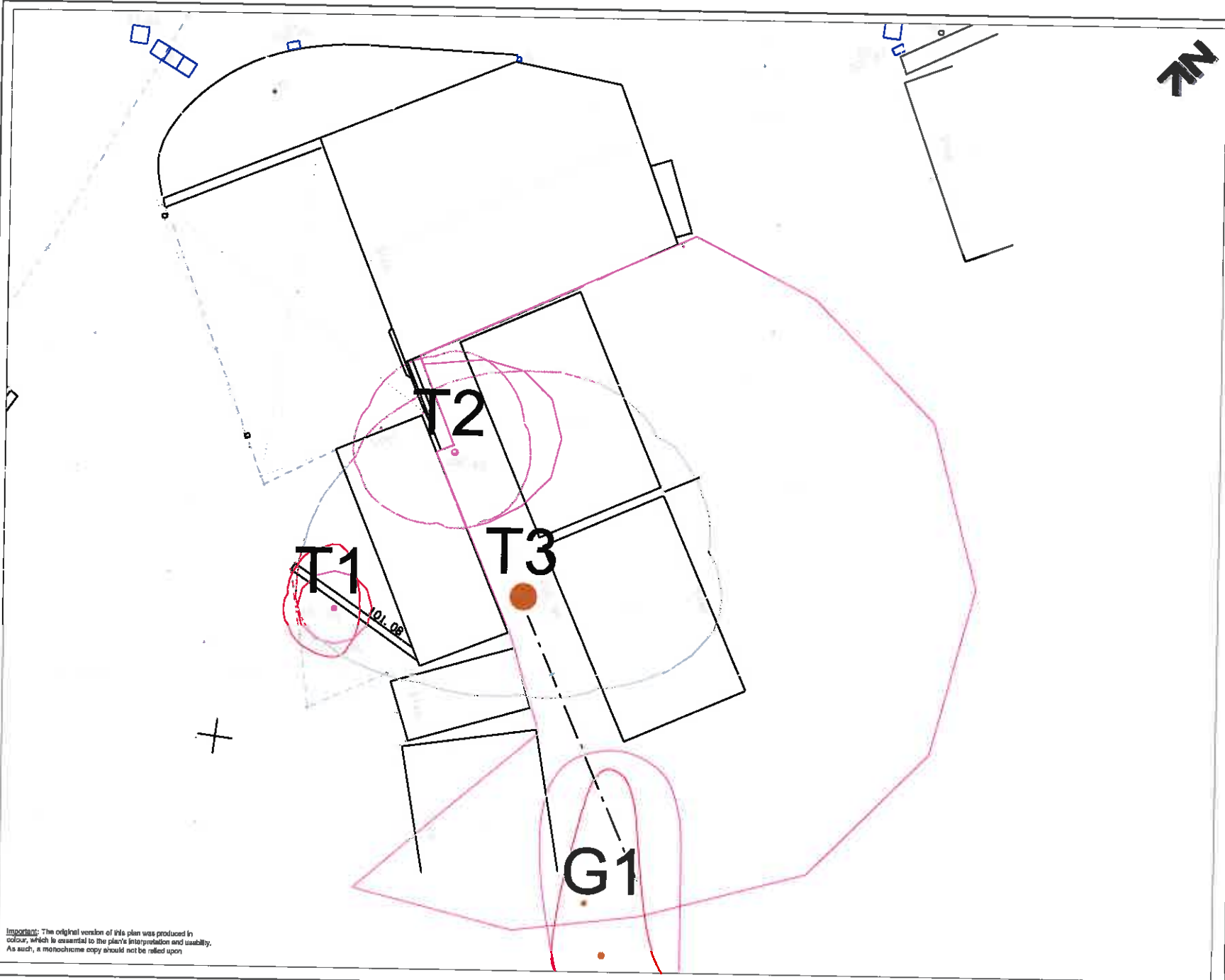
Where trees are located wholly or partially on neighbouring private third-party land then said land is not accessed and our inspection is therefore restricted to what can reasonably be seen from within the site. Stem diameters of trees located on such land are estimated. Any subsequent comments and judgments made in respect of such trees are based on these restrictions and are our preliminary opinion only. Recommendations for works to neighbouring third-party trees are only made where a potentially unacceptable risk to persons and/or property has been identified during our survey. Where significant structural defects of third-party trees are identified and associated management works are considered essential to negate any risk of harm and/or damage then we will first attempt to inform the site occupier of the issues and, if not possible, then inform the relevant Council. Where a more detailed assessment is considered necessary then appropriate recommendations are set out in the Tree Survey Schedule.

Where tree stem locations are not included on the plan(s) provided then they are plotted at the time of the survey using, where appropriate and/or practicable, a combination of measurement triangulation and GPS co-ordination. Where this is not possible then locations are estimated. Restrictions in these respects are detailed in the report.

The tree survey and any report information provided is intended as a guide to identify key tree related constraints to site development only. As such, the potential influence of trees upon existing or proposed buildings or other structures resulting from the effects of their roots abstracting water from shrinkable load-bearing soils is not considered herein. The tree survey information in its current form should not therefore be considered sufficient to determine appropriate foundation depths for new buildings. Accordingly, an updated survey, with reference to the current NHBC Standards Chapter 4.2 - Building Near Trees, must therefore be prepared for the specific purpose of informing suitable foundation depths subsequent to planning approval being granted. The advice of a structural engineer must also be sought with regard to appropriate foundation depths for new buildings.

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**KEY**  
 T = Individual Tree  
 G = Group of Trees

Please refer to associated Tree Survey Schedule for specific details in respect of items below:

**Tree Categories/Status:**

- Those to be Considered for Retention:**
- Category 'A' Tree/Group  
Those of a High Quality with an Estimated Remaining Life Expectancy of at Least 40 Years
  - Category 'B' Tree/Group  
Those of a Moderate Quality with an Estimated Remaining Life Expectancy of at Least 20 Years
  - Category 'C' Tree/Group  
Those of Low Quality with an Estimated Remaining Life Expectancy of at Least 10 Years, or Young Trees

**Those Considered Unavailable for Retention:**

- Category 'U' Tree/Group  
Those in such a Condition that they Cannot Practically be Retained as Living Trees in the Context of the Current Land Use for Longer Than 10 Years

*Note:* The stem locations of the trees in the group were not included on the site topographical survey plan provided, and were subsequently plotted by the arboricultural surveyor at the time of the survey using GPS equipment. As such, the plotted locations of the trees in the Group cannot therefore be considered to be wholly accurate.

**Root Protection Areas (RPAs):**

- RPA is  
Area(s) of Ground Around Trees that should be Protected Through-out Development Works with Protective Fencing to Form a Construction Exclusion Zone

**Project:**  
 FORMER FILLING STATION  
 SAWLEY ROAD  
 CHATBURN  
 BB7 4AS

**Agent for Client:**  
 SUNDERLAND PEACOCK &  
 ASSOCIATES LTD

**Title:**  
 TREE CONSTRAINTS PLAN  
 in Relation to Residential Development Proposal

**Scale:** 1:250@A4  
**Date:** May 2015  
**Drawn by:** JK  
**Checked by:** KR



*Important:* The original version of this plan was produced in colour, which is essential to the plan's interpretation and usability. As such, a monochrome copy should not be relied upon