TREE SAFETY REPORT
at:
Earby Road
Barnoldswick
Lancashire
BB18 6SR

Client:
Salterforth Parish Council

Client Address:
Salterforth Parish Council
6 Beckside
Salterforth
Barnoldswick
BB18 5BL

JCA Ref:
17348/RA

JCA Limited
Arboricultural & Ecological Consultants

Contents

1. Introduction

1.1 Purpose of the Report

1.1.1 This report details the findings of an expert arboricultural safety survey and risk assessment of the trees at:

Earby Road, Barnoldswick, Lancashire, BB18 6SR

1.1.2 This report details the relevant arboricultural information which is required to inform the owners of the condition of their trees and provides specific management actions that, once undertaken, demonstrate that a duty of care has been taken with regards to tree management.

1.2 Terms of Reference

1.2.1 JCA Ltd are instructed by Salterforth Parish Council to visit the site and prepare our findings in a report.

1.2.2 A plan of the site has been drawn showing the trees in relation to their surroundings. The tree locations are indicative, and this plan should not be scaled from.

1.3 Scope of the Report

1.3.1 This report, and any recommendations made is compiled in accordance with current industry standards and best arboricultural practice.

1.3.2 The trees have been inspected to assess and, if necessary, reduce their potential risk of harm, where applicable.

1.3.3 All trees within the site boundary with a stem diameter above 75mm are included.

1.4 Survey Details

1.4.1 The survey was conducted during July 2021 by Robert Armitage BSc (Hons) Arboriculture, MArborA.

1.4.2 Inspections were made visually from ground level, to assess the condition of the trees and potential to cause harm. Where necessary, management recommendations have been made.

1.4.3 Measurements were obtained using clinometers, specialist tapes or electronic distometers. Where this was not possible measurements were estimated.

2. Explanation of Terminology

2.1 Measurements

2.1.1 *HEIGHT* of the tree is measured from the stem base to the top of the canopy.

2.1.2 *CROWN HEIGHT* is an indication of the height at which the main crown begins above ground level.

2.1.3 *STEM DIAMETER* is measured at 1.5 metres above (higher) ground level. Where the tree is multi-stemmed at this point; the diameter is measured close to ground level, just above the root buttress.

2.1.4 *CROWN SPREAD* is a measurement of the overall width of the crown, at its widest point.

2.2 Evaluations

2.2.1 *AGE CLASS* of the tree is described as young, semi-mature, early-mature, mature, or over-mature.

2.2.2 *PHYSIOLOGICAL CONDITION* is classed as good, fair, poor, or dead. This is an indication of the health of the tree and takes into account vigour, presence of disease and dieback.

2.2.3 *STRUCTURAL CONDITION* is classed as good, fair or poor. This is an indication of the structural integrity of the tree and takes into account significant wounds, decay and quality of branch junctions.

2.2.4 *LIFE EXPECTANCY* is classed as; less than 10 years (<10), 10-20 years, 20-40 years, or more than 40 years (40+). This is an indication of the number of years before removal of the tree is likely to be required.

2.2.5 *TARGET VALUE* is classed as high, moderate or low. This is an indication of the likelihood of persons or objects, the latter having variable significance, being within falling distance of a tree or its branches.

2.2.6 *PRIORITY*. A priority rating is given concerning the time periods in which the recommended works should be undertaken. LOW priority works should be undertaken within 12 months of the survey, MOD (moderate) priority works should be undertaken within 6 months and HIGH priority works should be completed as soon as practically possible. If no works are recommended, N/A (not applicable) will be used.

2.2.7 *RE-INSPECTION TIMING* is classed as; 6 months (0.5), 1 year (1), 2 years (2), or within 5 years (5). This is an indication of the timescale in which a tree should be re-inspected; a specific time of year for the inspection may also be detailed in the recommendations.

2.3 Safety Categories

2.3.1 *SAFETY CATEGORY* values for the trees are as follows:

2.3.2 ***A (marked in green on the plan) = posing no immediate risk: no action required.***
These trees are considered to be in an acceptable condition at present and require no action at this time. However, these trees may require future management in order to ensure that they remain safe.

2.3.3 ***B (marked in light blue on the plan) = posing a potential risk: action required.***
These trees pose a potential risk and therefore require active management. This may include remedial pruning (crown cleaning) or target management. Such trees may also require a further, more detailed, investigation (such as a climbing inspection or a decay detection analysis) or may require future monitoring (re-surveying and re-assessing) at a timescale specified within this report.

2.3.4 ***R (marked in red on the plan) = trees to be removed.***
These trees require removal usually because they are dead, dying or dangerous and are therefore potentially hazardous. Such trees shall usually require removal as a matter of high priority. Trees may also require removal in order to prevent damage occurring to existing structures or buildings (where trees are growing within close proximity or are in actual contact) or in order to benefit adjacent trees (where trees are growing in direct competition, the poorer of the two trees may be removed). Such work is usually of a lower priority.

3. Status of the Trees

3.1 Checks made with Pendle Borough Council on the 22nd July 2021 via their online interactive mapping software indicate that all three Ash trees surveyed as part of this report (T1, T2 and T3) are subject to *Tree Preservation Order No. 12 1991, Earby Road, Salterforth* and therefore have the benefit of statutory control.

3.2 Therefore, before any work is organised, an application form must be submitted to the Local Authority, outlining all the proposed works along with suitable justification. A waiting period of eight weeks is then required, after which time the council will either give consent to the works, refuse the works or grant a conditional consent.

4. Work Recommendations

4.1 Table 1: Work Recommendation

Tree No.	Species	Height (m)	Estimated DBH (cm)	Work Recommendation	Priority	Re-inspection timing (Yrs)
T1	Ash	18	80	- Remove kinked, decayed branch over footpath to north back below decay point.	MOD	1
				- Monitor	LOW	
T2	Ash	19	85	- Remove large diameter dead wood limbs	MOD	1
				- Monitor	LOW	
T3	Ash	19	100	- Monitor	MOD	1

Full details of all individual trees surveyed are recorded in the tables at** Appendix 1**. Please refer also to the site plan at** Appendix 5 **for tree locations and** Section 2 **for a full explanation of the tables.

Appendices

Tree Ref.	Age Species *Latin Name*	Height (m)	Crown Height (m)	Diameter (cm)	Crown Spread (m)	Observations	Physiological Condition	Structural Condition	Life Expectancy (yrs)	Target Value	Recommendations	Priority	Safety Category	Re-Inspection Timing (yrs)
T 1	M Ash *Fraxinus excelsior*	18	13S	#80	15	Located on steep embankment beside road. Evidence of ash dieback at most branch tips. Regular small diameter dead wood. Slight bulging on tensile side of lower stem. Partially decayed limb to north with abrupt stem kink, hanging over footpath.	FAIR	FAIR	10-20	HIGH	Remove kinked, decayed branch over footpath to north back below decay point. Monitor	MOD LOW	**B** **B**	1
T 2	M Ash *Fraxinus excelsior*	19	14S	#85	15	Established ash dieback throughout canopy. Some large diameter dead wood. Regular small - medium diameter dead wood. Bifurcates at 6m. Some bark lifting / shedding on tensile side of lower main stem.	FAIR/ POOR	FAIR	<10	HIGH	Remove large diameter dead wood limbs. Monitor	MOD LOW	**B** **B**	1
T 3	M Ash *Fraxinus excelsior*	19	15S	#100	15	Unoccluded decayed pruning wounds. Appears the best condition of the three trees. Some indications of ash dieback at a limited number of branch tips. Infrequent small diameter dead wood. Some blackening on main branch over road potentially indicative of *Inonotus hispidus* fruiting body location.	GOOD/ FAIR	FAIR	20-40	HIGH	Monitor	MOD	**B**	1

Appendix 2: Explanation of Terms & Recommended Clearances

Canker	Disease damaged area of a tree, usually caused by fungus or bacteria.
Co-dominant Stem	A stem which has grown in direct competition to the main stem and which has formed a substantial size influencing the appearance of the tree.
Crown lift	The removal of the lowest branches, usually to a given height. It allows more residual light and greater clearance underneath for vehicles etc.
Crown reduce	The reduction of a tree's height or spread while preserving its natural shape.
Crown thin	The removal of some of the density of a tree's crown**,** usually 5-25% allowing more light through its canopy and reducing wind resistance.
Deadwood	The removal of all dead, dying and diseased branches from a tree.
Dieback	Where branches are beginning to show signs of death usually at the tips in the crown.
Epicormic shoots	Small branches that grow in uncharacteristic clusters around the base or the stem of a tree, usually as a result of bad pruning or some other stress factor.
Included bark	Where the bark on two adjoining branches or stems is growing tight together, forming a joint with limited physical strength.
Pollarding	A method of tree management in which the main trunk of the tree is cut at about 4m, and the resulting branches are then cropped on a regular basis.
Remedial pruning	The removal of old stubs, deadwood, epicormic growth, rubbing or crossing branches and other unwanted items from the tree's crown. Sometimes referred to as crown cleaning.

Recommended Clearances

JCA recommend the following distances are maintained:

Height for pedestrian access:	No less than 2.5m
Height for vehicular access:	No less then 4m for a minor road No less than 6m for major roads or where buses will pass.
Distance from overhead cables:	No less than 2m
Distance from building or other structure:	No less than 2m
Distance from lamppost or sign	Sufficient to not impede visibility for 2 years.

Appendix 3: Author Qualifications

Principal Consultant and Managing Director

Jonathan Cocking *F.R.E.S., Tech. Cert. (Arbor.A), PDipArb (RFS) FArborA CBiol MSB. MICFor*. Jonathan is a Registered Consultant and Fellow of the Arboricultural Association and sits on its Professional Committee. He has 31 years' experience in the Arboricultural profession and served for eight years as Senior Arboriculturist with a large local authority before establishing JCA in 1997. Jonathan has since developed JCA's portfolio of services and its extensive client base. He is a Chartered Biologist, a Chartered Arboriculturalist and an Expert Witness with much experience of litigation work.

Technical Director

Toby Thwaites *BSc (Hons), HND (Arboriculture), MArborA.*. Toby joined JCA in 1998 after graduating in Ecology at the University of Huddersfield and has since graduated in Arboriculture at the University of Central Lancashire. A former JCA team leader and Consulting Arboriculturist, Toby is now Technical Director and oversees all office and on-site activities at JCA and is on hand to offer technical support and advice.

Consulting Staff: Arboriculture

Andrew Bussey. Andrew started working in consultancy at JCA in 2006 having spent 12 years working as an arborist for various private companies before joining a Local Authority forestry team. He has various NPTC qualifications, is QTRA qualified and is a LANTRA Accredited Professional Tree Inspector.

Phil Humeniuk *FdSc (Arboriculture).* Phil joined JCA having spent 3 years working for various tree surgery companies and as a Tree Officer for a Local Authority. He also has several years' experience working as a consultant both for JCA and for another consultancy. Phil obtained his foundation degree in Arboriculture at the University of Central Lancashire and has various NPTC's and is LANTRA certified in Professional Tree Inspection.

Emily Wilde *FdSc (Arboriculture).* Emily joined JCA having previously worked for various private tree surgery and consultancy companies over the past 8 years. She initially obtained a ND in Forestry & Arboriculture, followed by a FdSc in Arboriculture at Askham Bryan College, York. Emily has various NPTC certificates and is QTRA qualified.

Mick Eltringham *ND (Forestry).* Mick joined JCA after spending 12 years working in the industry for various private companies in the north and south of England. He has also spent the last five years working as a consultant for two canopy research projects in the Amazon Rainforest, working with Oxford University and the University of Arizona. He has various NPTC Qualifications.

Charles Cocking *FdSc (Arboriculture), MArborA.* Charles joined JCA in January 2014 as an Apprentice having previously worked for the company on a part time basis during 2013. Charles obtained his Foundation Degree in Arboriculture at Askham Bryan College, York.

Robert Hickey *FdSc (Arboriculture), TechArborA.* Robert joined JCA in January 2019 having obtained his foundation degree in Arboriculture at the University of Central Lancashire. He has various NPTC's qualifications and has previously worked for several Arboricultural contractors.

Dan Kemp *FdSc (Arboriculture).* Dan joined JCA with nearly 30 years' experience in arboriculture. He worked as a London Tree Officer for 12 years and in several arboricultural and horticultural management posts, specialising particularly in tree risk assessments and tree related subsidence.

Ryan Bateman BSc (Hons), *FdSc (Arboriculture), TechArborA.* Ryan joined JCA in 2020 after working as a Lecturer on the Foundation Degree in Arboriculture at Askham Bryan College in York. Ryan has both practical skills, NPTC qualifications and theoretical knowledge and owned his own contracting business prior to, and whilst working as a lecturer.

Robert Armitage *BSc (Hons) Arboriculture, MArborA.* Rob joined JCA in 2021 with over six years' experience within arboricultural consultancy, predominantly within the context of the UK planning system. Rob has recently attained professional membership of the Arboricultural Association.

Consulting Staff: Ecology

Adam West, Principal Ecologist *BSc (Hons) Animal and Wildlife Management*. Adam joined JCA to lead the expanding ecology department. Having returned to education as a mature student, Adam studied Countryside Management for two years before undertaking a Batchelor's degree, for which he was awarded First Class Honours. Adam has many years' experience in ecological consultancy, working on projects ranging from individual planning applications to national infrastructure projects. Adam holds a Natural England Level 1 great crested newt survey class licence, a Natural England Level 2 bat survey class licence (and the Scottish and Welsh equivalents) and a CSCS card.

Joe Earnshaw, Assistant Ecologist *BSc (Hons), MSc Biodiversity and Conservation, Qualifying CIEEM member*. Joe joined the ecology department of JCA in 2018 after taking part in JCA's student training programme. He initially obtained a bachelor's degree in animal management from Askham Bryan College, York. He has since furthered his education and brings to the company an MSc in Biodiversity and Conservation from the University of Leeds. Joe has expertise in aquatic invasive species identification and control. Joe holds a Natural England Level 1 bat survey class licence.

Francesca Sykes, Graduate Ecologist *MSc Conservation Biology, BSc (Hons) Wildlife biology.* Francesca joined JCA after having been a seasonal ecologist for two years. She has worked on large and small infrastructure projects across the UK and is competent in various field surveys and report writing. Francesca also has experience of project administration duties for large infrastructure projects. While at JCA Francesca is working towards her bat licences.

Poppy McDermott, Seasonal Ecologist *BSc (Hons) Ecology and Conservation.* Poppy joined JCA after completing her degree for three years at Nottingham Trent University in Ecology and Conservation. She has gained practical experience in protected species surveying and report writing whilst at university and is hoping to further develop these skills and consultancy experience whilst at JCA.

Administrative Staff

Simeon Haigh *BSc (Hons)*. IT Director.
Catherine Cocking Accounts Manager.
Kelly Saunders Accounts Assistant.
Lorraine Spink Administrative Assistant.
Lisa Beedham Marketing Manager.

Appendix 4: General Guidelines

A4.1 All work must be to BS 3998: 2010 - '*Recommendations for tree work'*.

A4.2 Staff carrying out the work must be qualified, experienced and ideally be Arboricultural Association approved contractors, and should be covered by adequate public liability insurance.

A4.3 This report is based upon a visual inspection. The consultant shall not be responsible for events which happen after this time due to factors which were not apparent at the time, and the acceptance of this report constitutes an agreement with the guidelines and the terms listed in this report.

A4.4 Any defects seen by a contractor or the employer that were not apparent to the consultant must be brought to the consultant's attention immediately.

A4.5 No liability can be accepted by the consultant in respect of the trees unless the recommendations of this report are carried out under his supervision and within his timescale.

A4.6 It is advisable to have trees inspected by an arboricultural consultant regularly. In this instance it is recommended that these inspections are made as per the recommended re-inspection timings at **Appendix 1**.

4.1 Table 1: Work Recommendation

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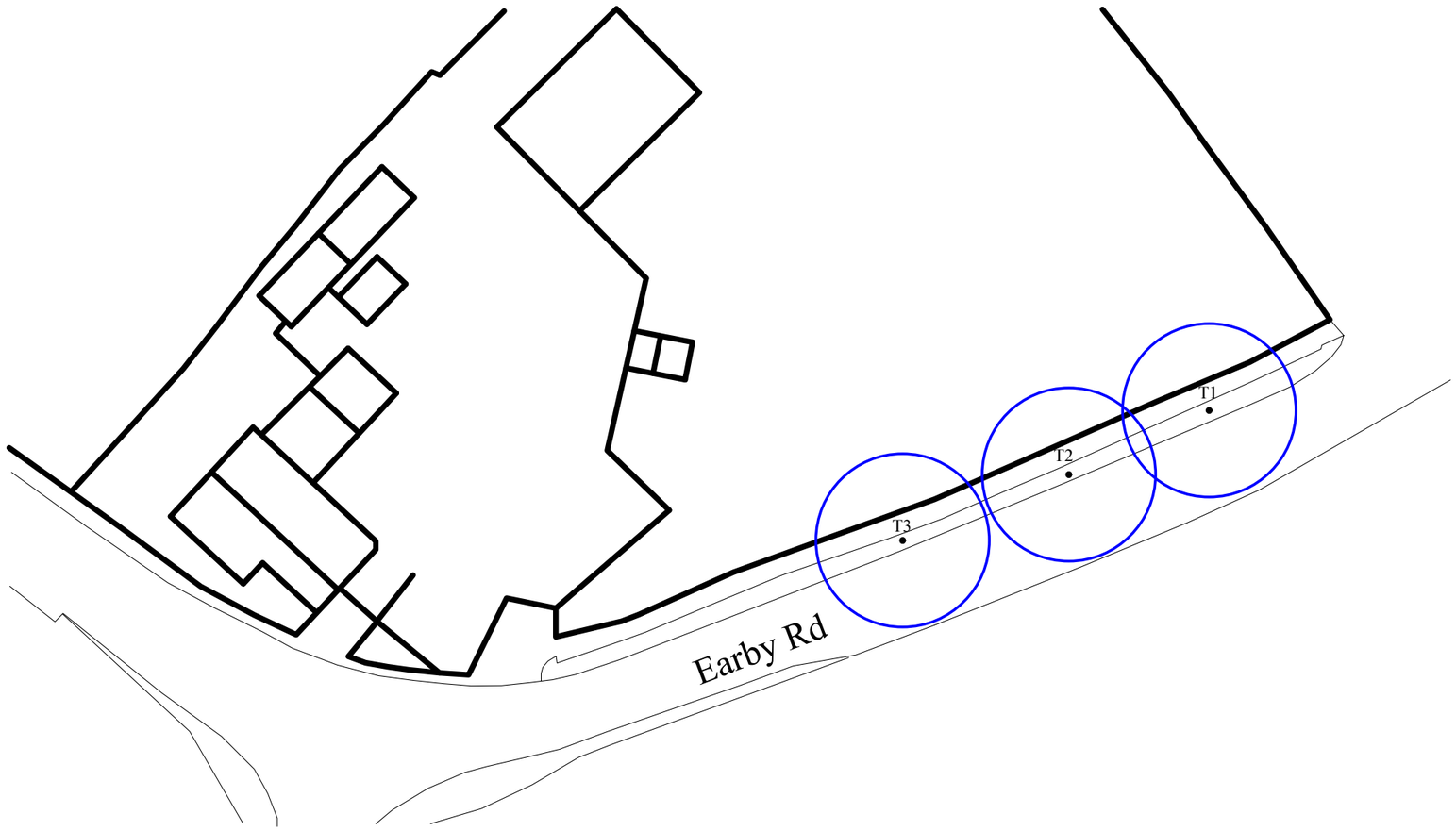

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Appendix 5: Tree Safety Survey Plan

ADDRESS: Earby Road, Barnoldswick, Lancashire BB18 6SR

JCA REF: 17348/RA

SCALE 1:500	PAPER SIZE A3

SURVEYED BY: RA	DRAWN BY: RA	APPROVED BY: RB

SAFETY CATEGORIES

Detailed definitions of the safety categories can be found in Section 2.3 of the arboricultural report.

	SAFETY CATEGORY A: NO WORKS REQUIRED
	SAFETY CATEGORY B: WORKS OR MONITORING REQUIRED
	SAFETY CATEGORY R: TREE TO BE REMOVED

JCA Limited

Arboricultural & Forestry Consultants

I hope that this report provides all the necessary information, but should any further advice be needed please do not hesitate to contact the author.

Signed

.....

Robert Armitage *BSc (Hons) Arboriculture, MArborA.*

22nd July 2021

For and on behalf of ***JCA Ltd***

Registered Office

Unit 80
Bowers Mill
Branch Road
Barkisland
Halifax
HX4 0AD

Tel: 01422 376335
Fax: 01422 376232
Email: info@jcaac.com

www.jcaac.com

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Professional Tree and Ecology Advice nationwide

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Advice for Local Authorities and Social Housing

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- Ancient Woodland Management
- Veteran Tree Management

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- Tree Health Checks
- Disease Mitigation and Control

ECOLOGICAL SERVICES

Ecological Pre-Planning Services

- Phase 1 Habitat Surveys
- Great Crested Newt eDNA Sampling
- Protected Species: Bat, Wintering and Nesting Bird, Badger, Amphibian, Otter, Water Vole, White-Clawed Crayfish, Dormice and Reptile Surveys.
- Preparation for Environmental Impact Assessment (EIA)
- Invasive Species Surveys
- Code for Sustainable Homes

Ecological Post-Planning Services

- Biodiversity Enhancement Plans
- Protected Species Mitigation
- Ecological Management (Bat and Bird box installation and inspection)

HEAD QUARTERS:

Unit 80 Bowers Mill,
Branch Road,
Barkisland,
Halifax, HX4 0AD.

Tel: 01422 376335
Mobile: 07778 391986
Email: jon@jcaac.com
Website: www.jcaac.com

Company Reg No. 05005041
VAT No. 686 4674 78