

Heron Land Developments Limited
2nd Floor
24 Brook's Mews
Mayfair
London
United Kingdom
W1K 4EA

Date: 2nd February 2024
Our Ref: LIV-SN-22-004886

PLEASE DO NOT IGNORE THIS LETTER, IT IS OF HIGH IMPORTANCE

Dear Sir/Madam,

Re: Damage to 62 Thistle Road, Hedge End, Southampton, SO30 0TT
Insurer Claim Ref: 100-50-192954

We refer to our previous letter to which we do not appear to have had a response.

As explained, the above property is suffering from subsidence and we are seeking the removal of your Oak tree's listed as T1, T2, T3 & T4 on the Arborist report, in order to bring about stability to the insured property so it can be repaired.

Can you please confirm if you will now be removing T1, T2, T3 & T4 to abate the root nuisance being caused by your vegetation? If you intend to instruct a contractor, please let us know when the work is scheduled to be undertaken.

As previously advised you do have a legal obligation to abate a nuisance caused by something situated within your curtilage once it has been brought to your attention, in this case vegetation roots causing damage. We are obliged to advise you that should you decide not to undertake the recommended vegetation management works the likely result will be further damage to the property leading to more extensive repairs being required such as underpinning.

In the event of your refusal to co-operate and the vegetation listed under your ownership goes on to cause further damage then our client reserves the right to take legal action to recover their costs, associated with this further damage and subsequent necessary repairs from you.

If you have passed this matter to your insurers to investigate on your behalf, please notify us of the details of your insurer and policy number so that we can take up discussions with them direct.

Please can you confirm receipt of this letter.

Thank you in advance for your help in resolving this problem

Yours sincerely

Chelsea Terry-Harris
360Globalnet Ltd Subsidence Team
Email: Subsidence@360Globalnet.com
Telephone: 01164 781258

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Registered in England and Wales

number: 07127114 VAT No: GB997 3117 78

ARBORICULTURAL REPORT
at
62 Thistle Road
Hedge End
Southampton
Hampshire
SO30 0TT

Client:
360Globalnet
on behalf of LV=Insurance

Client Address:
Regus House
Herald Way
Pegasus Business Park
Castle Donington
DE74 2TZ

Client Telephone:
0116 4781258

Insured:
Mr Anthony Marsh

Claim Number:
LIV-SN-22-004886

JCA Ref:
20655/HI

Client Ref:
100-50-192954

JCA Limited
Arboricultural & Ecological Consultants

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1. Introduction

1.1 Purpose of the Report

- 1.1.1 This arboricultural report is required by our client as part of an investigation into subsidence damage at:

62 Thistle Road, Hedge End, Southampton, Hampshire, SO30 0TT.

1.2 Terms of Reference

- 1.2.1 We are instructed by **360Globalnet** to visit the site and carry out an arboricultural survey covering all vegetation within likely influencing distance of the subject property. It has been requested that we only consider vegetation management options for the purpose of this report. However, vegetation management work should only be carried out once all other possible causal factors have first been discounted.
- 1.2.2 We have been supplied with details of the site investigation, which was carried out by **Drainage Repair Company**, and have included the salient points in this report. We have applied this information to our knowledge of trees and the arboricultural data we gathered on site and prescribed recommendations for current, or future action, where required.
- 1.2.3 We are to prepare our findings in a detailed report, making specific recommendations as to any arboricultural management which may be required.

1.3 Scope of the Report

- 1.3.1 The subject property is a two-storey, detached house constructed in 1991.
- 1.3.2 Damage has occurred to the rear left hand side of the house. Please see the **360 Globalnet Engineer's Report** for full details of the current damage at the subject property.
- 1.3.3 The distance between the vegetation surveyed and the building is measured from the closest part of the property.

2. Survey Conditions and Methods

2.1 Date of Inspection and name of Inspector

- 2.1.1 The site was surveyed during June 2023 by **Richard Daubeney Level 3 Arboriculture**.

2.2 Data Collection Methods

- 2.2.1 The inspection was carried out at ground level using visual assessment of the tree canopy, stem and rooting area. No digging or drilling was carried out by JCA Ltd.
- 2.2.2 The measurements were made using instruments including clinometers for tree *HEIGHT*, diameter tapes for *STEM DIAMETER* (measured at 1.5m above ground level) and tape measures or electronic distometers for *CROWN SPREAD* and *DISTANCE TO PROPERTY*.
- 2.2.3 *AGE CLASS* and *LIFE EXPECTANCY* values are estimated based upon our knowledge of trees and the way they grow. No core sampling was carried out on this occasion.
- 2.2.4 The term *INFLUENCING DISTANCE* as used in this report is not derived from the NHBC's 'zones of influence' formula. It is merely an estimation of the potential of a tree or shrub to cause damage to the subject property after due consideration of many factors including soil characteristics, specimen size, vigour, species, likely water uptake and distance from the property.
- 2.2.5 '*NHBC WATER DEMAND*' (low, moderate or high) are categories originated by the National House Building Council. The concept was designed to be used as an aid for determining the correct foundation depths for new build situations where there are existing trees present.

3. Ground Investigation, Soil & Root Analysis

3.1 Introduction

- 3.1.1 Trees influence soil conditions, and in some soil types root activity can create a soil moisture deficit (S.M.D.), which means that the amount of water being used by the tree and by natural evaporation has exceeded the amount of water entering the ground through precipitation or other means. This deficit can lead to soil shrinkage which in turn can cause a building to move, particularly if its foundations are shallow. The result is *SUBSIDENCE*.
- 3.1.2 The soil's *PLASTICITY INDEX*, *PLASTIC LIMIT*, *MOISTURE CONTENT* and the likely water uptake of the tree/trees in question are key factors in determining whether shrinkage has occurred.
- 3.1.3 On shrinkable soils, damage to buildings can also occur as a result of tree removal. In such cases, re-hydration of the soil beyond that which would ordinarily occur prior to the removal of vegetation can cause an upwards movement of the ground which is known as *HEAVE*. Trees should not, therefore, be removed without due consideration of likely effects.
- 3.1.4 The ground investigation and root analysis at this site have been carried out by others. Results of these investigations are briefly summarised below.

3.2 Foundation Types and Depths

- 3.2.1 Please refer to the site plan at **Appendix 2** for an indication of the trial pit/borehole locations.
- 3.2.2 **Trial pit/borehole 1** revealed a 300mm thick concrete foundation at a maximum depth of 2000mm below ground level.
- 3.2.3 **Trial pit/borehole 2** revealed a 300mm thick concrete foundation at a maximum depth of 2000mm below ground level.

3.3 Soil Types

3.3.1 Trial Pit/Borehole 1:

- The soils *plasticity index* ranged from 29% to 41%.
- *Moisture contents* within the soil samples ranged from 25% to 31%.
- The *plastic limit* of the soils ranged from 20% to 23%.
- The *liquid limit* of the soils ranged from 49% to 64%.

The results indicate that the soil found within **Trial Pit/Borehole 1** is of moderate to high shrinkability and that there is an onset of desiccation at 2.75m.

3.3.2 Trial Pit/Borehole 2:

- The soils *plasticity index* ranged from 29% to 30%.
- *Moisture contents* within the soil samples ranged from 28% to 35%.
- The *plastic limit* of the soils ranged from 20% to 21%.
- The *liquid limit* of the soils ranged from 49% to 51%.

The results indicate that the clay soil found within **Trial Pit/Borehole 2** is of moderate shrinkability and that the soils are not desiccated.

3.4 Root Analysis

- 3.4.1 Microscopic examination of tree root anatomy generally enables the GENUS of roots recovered during the ground investigation to be established. However, it rarely identifies individuals to SPECIES level.
- 3.4.2 Certain species, for instance Willows and Poplars, are indistinguishable by these methods and identification can only be made at FAMILY level.
- 3.4.3 The diameter and the depth of the root can be an indication of its significance.
- 3.4.4 To establish whether the root is alive, iodine is used to test for starch which is stored in some cells of living tree roots but is broken down by micro-organisms upon the death of a root in the soil.
- 3.4.5 Live root samples are normally a prerequisite for establishing, on a balance of probability, which vegetation is the most likely cause of any damage noted.
- 3.4.6 Results of the analysis of root material recovered during the ground investigation can be viewed on the following page.
- 3.4.7 The root identification is a genus match to **T1, T2, T3, T4** and **T5**, as identified in this report.

 Drainage Repair Company ROOT IDENTIFICATION						
 Root identification Vegetation surveys Tree Guiding investigations Plant Lacrimetry	Richardson's Botanical Identifications					
The Drainage Repair Company Suite 15, Leatherline House 71 Narrow Lane AYLESTONE Leicester LE2 8NA	Dr Ian B K Richardson <i>BSc, MSc, PhD, MRSB, FLS</i> James Richardson <i>BSc (Hons. Biology)</i> Enterprise House 49-51 Whiteknights Road Reading RG6 7BB Tel: (0118) 986 9552 <i>(Direct line)</i> E-mail: richardsons@botanical.net Web: www.botanical.net Your ref: LIV-SN-22-004886 Our ref: 84/6911					
20/12/2022						
Dear Lisa						
62 Thistle Road SO30 0TT						
The samples you sent in relation to the above on 29/11/2022 have been examined. Their structures were referable as follows:						
<table border="1"><tbody><tr><td>TP/BH1, 2.0-3.0m</td></tr><tr><td>13 no. Examined root: QUERCUS (Oak).</td></tr><tr><td>TP/BH2, 2.0-3.0m</td></tr><tr><td>4 no. Examined root: QUERCUS (Oak).</td></tr><tr><td>5 no. All pieces of BARK only - not enough material for identification.</td></tr></tbody></table>		TP/BH1, 2.0-3.0m	13 no. Examined root: QUERCUS (Oak).	TP/BH2, 2.0-3.0m	4 no. Examined root: QUERCUS (Oak).	5 no. All pieces of BARK only - not enough material for identification.
TP/BH1, 2.0-3.0m						
13 no. Examined root: QUERCUS (Oak).						
TP/BH2, 2.0-3.0m						
4 no. Examined root: QUERCUS (Oak).						
5 no. All pieces of BARK only - not enough material for identification.						
Click here for more information: QUERCUS						
I trust this is of help. Please call us if you have any queries; our Invoice is enclosed.						
Yours sincerely 						
Dr Ian B K Richardson						
** Try out our web site on www.botanical.net **						
Identified with no information on vegetation, on or off site.	Report commissioned by 					
Address: 62 THISTLE ROAD, HEDGE END, SOUTHAMPTON, SO30 0TT						

4. Status of the Trees

- 4.1 A Tree Preservation Order (TPO) and Conservation Area check was made in April 2023 with **Eastleigh Borough Council**.
- 4.2 We are informed that there is a Tree Preservation Order (TPO) in force (**TPO No. 851-E**). This TPO protects the Oak trees growing to the rear of the property.
- 4.3 Before any tree works are undertaken to protected trees, written consent from the Local Authority must first be obtained. An application for tree works form must therefore be completed and submitted to the Local Authority outlining all the proposed works along with a suitable justification. A waiting period of eight weeks is then required.
- 4.4 *No work must be done to protected trees until permission has been granted.*

5. Tree Descriptions & Recommendations

- 5.1 Descriptions of the surveyed vegetation and all recommended work are detailed in the tables at **Appendix 1**.
- 5.2 Please refer to the site plan at **Appendix 2** for the locations of the vegetation surveyed and all the relevant site features.

6. Discussion

- 6.1 We have been informed by our client that the damage observed at the property is due to clay shrinkage caused by vegetation.
- 6.2 Based on this information, having made a detailed survey of the site and having given due consideration to the other information supplied, we consider the vegetation identified as **T1, T2, T3** and **T4** to be collectively contributing to the damage observed at the subject property. In order to negate their influence, the only vegetation management option available is to remove **T1, T2, T3** and **T4** and treat the stumps with Ecoplugs to prevent regrowth.
- 6.3 As protected trees, the Local Authority will require sufficient proof that the trees are contributing to the damage. In this case we have evidence of:
- The trees being within influencing distance of the damaged property.
 - The soils being confirmed as being shrinkable with an onset of desiccation observed in Trial Pit 1.
 - *Quercus* roots being found in the two Trial Pits at/below foundation level.
 - Cracking damage to the subject property.

The Local Authority are also likely to require crack/level monitoring indicating cyclical movement.

- 6.4 We consider the vegetation identified as **T5, S6, S7, S8, G10** and **G11** to be of possible future concern to the subject property, if left unmanaged. We have therefore recommended that **T5, S6, S7, S8, G10** and **G11** be maintained at or below their current dimensions. These works are only recommended as a precaution and are not considered a priority to resolve the damage observed at the subject property.
- 6.5 We have summarised all our tree specific recommendations in **Section 7** and made general recommendations in **Section 8**. The effect of these recommendations should be to prevent further damage by reducing the moisture uptake close to the problem areas.
- 6.6 Please note that the vegetation management work recommended in this report should only be carried out once all other possible causal factors have first been discounted.

7. Summary of Tree Specific Recommendations

Item	Species	Recommended Action	Location/ Ownership	Planning Restriction
T1	English Oak	Remove to ground level and treat the stump with ecoplugs to prevent regrowth	Third Party - Heron Homes Land Development	Yes – TPO 851-E
T2	English Oak	Remove to ground level and treat the stump with ecoplugs to prevent regrowth	Third Party - Heron Homes Land Development	Yes – TPO 851-E
T3	English Oak	Remove to ground level and treat the stump with ecoplugs to prevent regrowth	Third Party - Heron Homes Land Development	Yes – TPO 851-E
T4	English Oak	Remove to ground level and treat the stump with ecoplugs to prevent regrowth	Third Party - Heron Homes Land Development	Yes – TPO 851-E
T5	English Oak	Maintain at or below current dimensions	Third Party - Heron Homes Land Development	Yes – TPO 851-E
S6	Camellia	Maintain at or below current dimensions	Policy Holder	None
S7	Camellia	Maintain at or below current dimensions	Policy Holder	None
S8	Griselinia	Maintain at or below current dimensions	Third Party - 64, Thistle Road	None
W9	English Oak, Holly and Hazel	No action required	Situated on adjacent land	YES - TPO 93-E
G10	Forsythia and Rhododendron	Maintain at or below current dimensions	Policy Holder	None
G11	Rose and Hydrangea	Maintain at or below current dimensions	Policy Holder	None

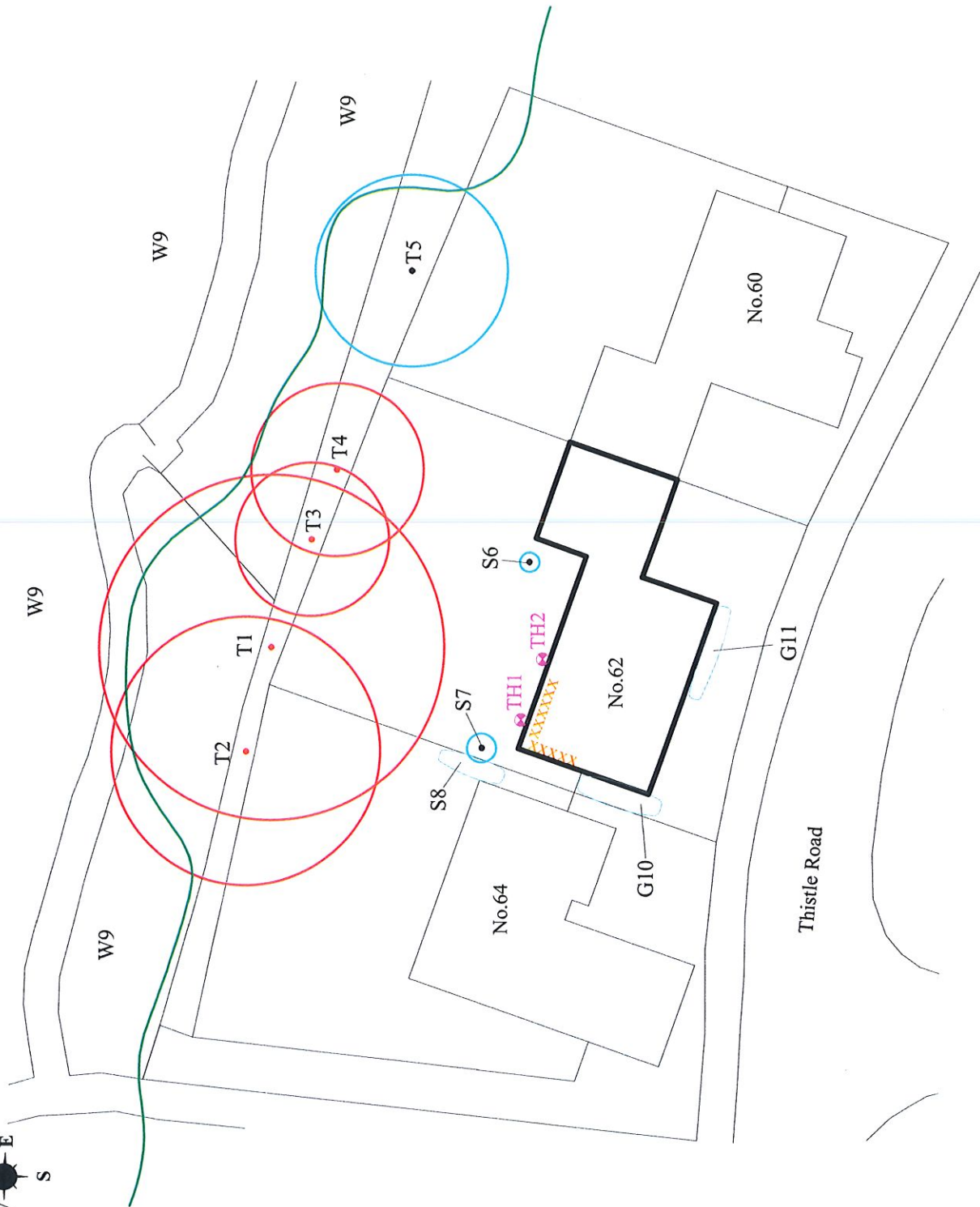
8. General Recommendations and Observations

- 8.1 This report is based upon a visual inspection. JCA Limited 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.
- 8.2 All tree work must be carried out to BS 3998: 2010 - '*Recommendations for Tree Work*'.
- 8.3 Any tree work should be carried out by qualified, experienced and skilled arboricultural contractors covered by adequate *public liability and employers liability insurance*. 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.
- 8.4 The influence of trees on the soil and on buildings may change as they grow, as climate varies or as other changes occur in the local environment. It is therefore advisable to have trees inspected by JCA Limited annually.
- 8.5 The property and the damage should be monitored by the project engineer on a regular basis after the recommended tree works are complete.
- 8.6 If, after the works have been carried out, there is little improvement, this may mean that the situation cannot be rectified by arboricultural means alone. If this point is reached the situation must be reassessed in conjunction with other experts.
- 8.7 No liability can be accepted by the consultant in respect of the trees unless the recommendations of this report are carried out under their supervision and within their timescale.
- 8.8 That the project engineer considers the possibility of heave.

Appendices

Tree Ref.	Age Common Name Botanical Name	Height (m)	Stem Diameter (cm)	Canopy Spread (m)	Owner / Occupier Observations	Condition	Distance to Property (m)	NHBC Water Demand	Life Expectancy (yrs)	Within Potential Influencing Distance	Root Identification Match	Contributing to Damage	Vegetation Management Option
T 1	Mature English Oak <i>Quercus robur</i>	25	80	18	Third Party - Heron Homes Land Development Historic reduction to the lateral spread (south side). Within a woodland area.	FAIR	13	HIGH	40+	Yes	Yes	Yes	Remove to ground level and treat the stump with ecoplugs to prevent regrowth.
T 2	Mature English Oak <i>Quercus robur</i>	21	60	14	Third Party - Heron Homes Land Development Historic reduction to the lateral spread (south side). Within a woodland area.	FAIR	14.9	HIGH	40+	Yes	Yes	Yes	Remove to ground level and treat the stump with ecoplugs to prevent regrowth.
T 3	Mature English Oak <i>Quercus robur</i>	20	50	8	Third Party - Heron Homes Land Development Historic reduction to the lateral spread (south side). Within a woodland area.	FAIR	13.4	HIGH	40+	Yes	Yes	Yes	Remove to ground level and treat the stump with ecoplugs to prevent regrowth.
T 4	Mature English Oak <i>Quercus robur</i>	20	65	9	Third Party - Heron Homes Land Development Historic reduction to the lateral spread (south side). Within a woodland area.	FAIR	14.9	HIGH	40+	Yes	Yes	Yes	Remove to ground level and treat the stump with ecoplugs to prevent regrowth.
T 5	Mature English Oak <i>Quercus robur</i>	22	60	10	Third Party - Heron Homes Land Development Historic reduction to the lateral spread (south side). Within a woodland area.	FAIR	16.5	HIGH	40+	No	Yes	No	Maintain at or below current dimensions.
S 6	Mature Camellia <i>Camellia sp.</i>	1	3	1	Policy Holder Within the rear garden. No significant recent management noted.	FAIR	1.9	NO DATA	20+	Yes	No	No	Maintain at or below current dimensions.
S 7	Mature Camellia <i>Camellia sp.</i>	1.7	5	15	Policy Holder Within the rear garden. No significant recent management noted.	FAIR	3.1	NO DATA	20+	Yes	No	No	Maintain at or below current dimensions.
S 8	Mature <i>Griselinia</i>	5	30	4	Third Party - 64, Thistle Road Located in the neighbouring garden. No significant recent management noted.	FAIR	2.8	NO DATA	20+	Yes	No	No	Maintain at or below current dimensions.
W 9	Mature Mixed	To 20	To 50	See Plan	Situated on adjacent land A mixed woodland to the rear of the property. group; English Oak, Holly and Hazel. No significant recent management noted.	FAIR	From 18	LOW to HIGH	40+	Yes	Yes	No	No action required
G 10	Mature Mixed	To 3	5	See Plan	Policy Holder Five shrubs at the front and side of building. Species include Forsythia and Rhododendron. No significant recent management noted.	FAIR	0+	NO DATA	20+	Yes	No	No	Maintain at or below current dimensions.

Tree Ref.	Age Common Name <i>Botanical Name</i>	Height (m)	Stem Diameter (cm)	Canopy Spread (m)	Owner / Occupier Observations	Condition	Distance to Property (m)	NHBC Water Demand	Life Expectancy (yrs)	Within Potential Influencing Distance	Root Identification Match	Contributing to Damage	Vegetation Management Option
G 11	Mature Mixed	To 20	3	See Plan	Policy Holder Rose and Hydrangea growing at the front of the property.	FAIR	0+	NO DATA	20+	Yes	No	No	Maintain at or below current dimensions.



Appendix 2: Site Plan

ADDRESS: 62, Thistle Road, Hedge End
Southampton Hampshire, SO30 0TT
JCA REF: 20055SH

NOT TO SCALE

PAPER SIZE: A4

DRAWN BY: JK

APPROVED BY: H

CANOPY OF TREE SHRUB GROUP

TO BE REMOVED

CANOPY OF TREE SHRUB GROUP

TO BE MAINTAINED

CANOPY OF TREE SHRUB GROUP

TO BE MAINTAINED

STEM OF TREE SHRUB

TO BE MAINTAINED

STEM OF TREE SHRUB

TO BE REMOVED

OUTLINE OF SUBJECT PROPERTY

APPROXIMATE LOCATION

OF THE DAMAGE

BOREHOLE/ TIAL PPT LOCATION

JCA
Limited

Arboricultural & Forestry Consultants

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.

Operations Director

Charles Cocking *FdSc (Arboriculture), MArborA.* Charles joined JCA in January 2014 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, and is a Professional Member of the Arboricultural Association. Charles now oversees all internal operations for the company.

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.

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.

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.

Luke Wickham *FdSc (Arboriculture and Urban Forestry).* Luke joined JCA in 2021 after obtaining his Foundation Degree in Arboriculture and Urban Forestry at Askham Bryan College. Having previously worked within the industry for the past 4 years, running his own small business and sub-contracting for local firms, Luke brings a sound knowledge and understanding of the practical and academic sides of the industry.

Hazel Irving *FdSc (Arboriculture and Urban Forestry).* Hazel joined JCA in 2022 after obtaining her Foundation Degree in Arboriculture and Urban Forestry at Askham Bryan College. She has previously worked in the horticulture industry, volunteered with the National Trust and Yorkshire Arboretum and completed the 2021 student research internship at the RHS Wisley Plant Health Centre.

Andrew McPhaden *BSc (Hons) TechArborA.* Andrew joined JCA in 2022 having spent 5 years working as an Arborist for various private companies in both the UK and Germany. During his time abroad he obtained the European Tree Worker Certification along with a tree inspector certification from the Forschungsgesellschaft Landschaftsentwicklung Landschaftsbau.

Jonnie Setterfield *BSc (Hons) MArborA. / Richard Daubeny* *Level 3 Arboriculture / Peter Wilkins* *BA (Hons) MArborA MEnvSc.* Jonnie, Richard and Peter are based in the south-east of the UK and assist JCA by undertaking surveys in the south of the country.

Administrative Staff

Catherine Cocking Accounts Manager.
Kelly Saunders Accounts Assistant.

Lorraine Spink Administrative Assistant.
Lisa Beedham Marketing Manager.

Appendix 4: Photos



Photograph 1: a view of the Oak trees at the rear of the property.

Please note that T1, T2, T3, T4 and T5 are protected by TPO No. 851-E.

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

The contents of this report are true to the best of our knowledge and belief.

Signed



.....
Hazel Irving FdSc (*Arboriculture and Urban Forestry*).

4th August 2023

For and on behalf of **JCA Ltd**

Registered Office

**Unit 80
Bowers Mill
Branch Road
Barkisland
Halifax
HX4 0AD**

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JCA Ltd. Arboricultural and Ecological Consultants

Professional Tree and Ecology Advice nationwide

ARBORICULTURAL SERVICES

Guidance for Architects and Developers

- British Standard 5837 Tree Surveys
- Arboricultural Implication Assessments (AIA)
- Arboricultural Method Statements (AMS)

Tree Advice for the Legal Profession

- Subsidence Litigation
- Personal Injury and Accident Investigation
- Expert Witness, Planning Inquiries and Appeals

Advice for Engineers, Loss Adjusters and Insurers

- Tree Surveys for Subsidence
- Heave Assessment
- Tree Root Identification

Advice for Local Authorities and Social Housing

- Tree Safety Surveys
- Specialist Decay Detection
- Landscape and Orchard Design

Veteran Tree Management

- Ancient Woodland Management
- Veteran Tree Management

Tree Health and Pest and Disease Management

- Pest and Disease Surveys
- 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

