

## **Tree Condition Survey and Management Work Recommendations**

Date – 10/04/2023

Site – Tarvin Road Cemetery, Frodsham

Client – Frodsham Town Council – [townclerk@frodsham.gov.uk](mailto:townclerk@frodsham.gov.uk)

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## **1.0 Introduction**

- 1.1 The purpose of this report is to give a tree condition assessment of the trees located Tarvin Road Cemetery, Frodsham.
- 1.2 The findings of this report provide management work recommendations with the order of work priority given to primarily address any hazardous trees.
- 1.3 The following management work recommendations have been identified as found in Appendix 2 Tree Data.
- 1.4 All tree work should be carried out in accordance with the British Standard BS3998: 2010 Tree Work – Recommendations.

## **2.0 The Tree Condition Survey**

- 2.1 The tree condition survey was conducted by Kevin Feeney
- 2.2 All tree inspections were carried out in accordance with current best practise (Visual Tree Assessment) to give a systematic, consistent and transparent evaluation method to tree inspecting.
- 2.3 Limitations of the Tree Condition Survey/Scope of works: Whilst every effort is made to ensure an accurate assessment of the trees condition is made during survey no responsibility can be taken for resultant damage or injury occurred by a failing tree. The survey only gives a snap shot of what is visible, not obscured or accessible on the day of survey. Please note that the findings of this report are only valid for 12 months from the date of the tree inspection. This report does not constitute to a full tree safety policy for the study area nor does it take into account any underground geological activity that may affected the structural condition of the trees.

## **3.0 The Tree Inspection**

- 3.1 The main scope of this tree inspection is to identify hazardous trees in a poor physiological or structural condition and the required work management recommendations to reduce the risk of these hazardous trees to an acceptable level as detailed by the Health and Safety Executive in Management of the risk from falling trees or branches - [http://www.hse.gov.uk/foi/internalops/sims/ag\\_food/010705.htm](http://www.hse.gov.uk/foi/internalops/sims/ag_food/010705.htm).
- 3.2 The areas around main roads, occupied houses, well used formal foot paths, public used features, car parks etc. were identified as a priority areas for the tree survey.
- 3.3 Where required trees may be grouped as a whole and tree works recommended for that group.
- 3.4 The level of detail of the tree inspection may vary depending on the target occupation and the size of the tree or tree groups. For example large trees in high target occupation areas may be inspected in much greater detail than small trees in low target occupation areas.
- 3.5 Areas identified to be surveyed in the study area are shown on the Tree Location Plan as found in Appendix 3.

## **4.0 The Tree**

- 4.1 **Tree Data** - All data regarding the trees inspected for this report can be found in Appendix 2 Tree Data.

**4.2 Tree Management Work Recommendations** - Within Appendix 2 the Tree Management Work Recommendations are colour coded for work priority. See appendix 1 – tree survey key for detail on timescales. Other works can be identified from this list to achieve desired management objectives and timescale given for the completion of this work. Please note that all work must be carried out to the British Standard 3998:2010 Tree Works Recommendation.

**4.3 Tree Location Plan** - A Tree Location Plan can be found in Appendix 3. Note only trees requiring remedial work where noted down in this survey and other trees within the site are present but not included in the tree location plan.

#### **4.4 Legal Constraints**

- **TPO (Tree Preservation Orders)/Conservation Areas** – The Tree Preservation Officer from the Local Planning Authority should be consulted before any work is carried out on site.

- **Protected Wildlife** – Before any tree work is carried out on site the trees should be inspected and written records taken of the activity of any protected species on site. This is to prevent the damage to any wildlife. Under the Wildlife and Countryside Act 1981 it is an offence to destroy or disturb nesting birds, if nesting birds are discovered or suspected no works can proceed and the Local Planning Authority (LPA) and Local Wildlife Trust must be notified for advice as to how to proceed. Further to this wildlife such as Bats are protected under European legislation (Countryside and Rights of Way Act 2000 and The Habitat Regulation 2009) it is an offence to recklessly, or intentionally, kill, injure or capture bats, to disturb them, or destroy, obstruct or damage any bat roosts found. If any bat activity is found then the bat conservation trust should be contacted as soon as possible (<http://www.bats.org.uk/> or 0845 1300 228). Further guidance relating to the protection of wildlife within development design is given in Welsh Assembly Government Technical Advice Note 5: Nature Conservation and Planning (2009).

- **Tree Felling Licence** – Depend on the designation of the land where the trees are located a Tree Felling Licence may be required if more than 5 cubic metres of timber are being extracted per one quarter a felling license must be obtained from Forestry England.

#### **5.0 Recommendations**

5.1 The detailed Tree Management Work Recommendations as found in Appendix 2 should be conducted as the priority states. See Appendix 1 for a suggested timescale for work to be carried out. These recommendations are to be taken from the date fieldwork was carried out.

#### **6.0 Further Information and Qualifications**

Kevin Feeney has been involved in Arboriculture, woodland management and ecology for 10 years. Working across the northwest and midlands in practical and theoretical management of trees and woodlands.

##### **Qualifications**

- Second class division one BSc (Hons) Degree
- PTI - Professional Tree Inspection (Lantra Awards)
- Institute of Chartered Foresters - Associate member

#### **7.0 Web Information & Bibliography**

##### **Web Information**

Health and Safety

Executive - [http://www.hse.gov.uk/foi/internalops/sims/ag\\_food/010705.htm](http://www.hse.gov.uk/foi/internalops/sims/ag_food/010705.htm)

Arboricultural Association – <http://www.trees.org.uk/index.php>

## Bibliography

- British Standards 3998 (2010) Tree Work - Recommendations UK; British Standards Institution
- British Standards 5837 (2012) Trees in relation to design, demolition and construction. Recommendations; British Standards Institution
- Lonsdale, D (1999) Principle of Tree Hazard Assessment and Management Edinburgh; Forestry Commission
- Mattheck, C (2007) Field Guide for Visual Tree Assessment Germany; Karlsruhe Research Centre
- Shigo, A.L (1991) Modern Arboriculture USA; Shigo and Trees, Association
- Sterry, P (2007) Collins Complete British Trees London; Collins • Strouts, R.G (2000) Diagnosis of ill-health in trees Edinburgh; Forestry Commission
- Weber, K & Mattheck, C (2003) Manual of wood decay UK; Arboricultural Association

## 8.0 Appendices

### Appendix 1 Tree Survey Key

- **Tree Name/ species** - Scientific tree name and common tree name in brackets.
- **Age class** -
  - **Y - Young** – Less than 1/3 of expected species height in setting
  - **SM - Semi Mature** - Less than 2/3 of expected species height in setting
  - **M - Mature** – 3/3 of expected species height in setting
  - **OM** – Over Mature – tree has exceeded mature size for area and is displaying characteristics of ancient or veteran trees however is not of either category.
- **N,E,S, W** – compass directions.
- **M/m** – measurement in meters
- **Targets – T – individual tree. C – cluster of trees grouped together due to area, size or species.**
- A suggested timescale for the work to be carried out is provided below:
  - **Urgent** - work priority is suggested to be as soon as possible. Remedial work to take place within 14 days unless specified as immediate/same day which could include signage or temporary fencing. Remedial work to take place within 3 months.
  - **High** – remedial work to take place within 6 months.
  - **Medium** – remedial work within 18 months
  - **Low** – proactive work to be carried out when time or budget allows, otherwise re-inspect on next tree condition survey.

**Appendix 2 – Tree assessment data, arranged in order of priority**

Tree ID	Grid reference	Species	Age class	Comments	Management action	Priority
T31	SJ51097674	Crack Willow <i>Salix sp'</i>	M	Height 20m. 30% dieback in crown, main stem leaning toward road.	Fell to ground level.	H
T32	SJ51097674	Norway Maple ( <i>A.platanoides</i> )	M	Height 7m. Three main stems with leaning growth form away from hedge beneath neighbouring horse chestnut. Squirrel damage throughout.	Fell to ground level.	H
T33b	SJ51097674	Horse Chestnut ( <i>A.hippocastanum</i> )	M	Height 14m. In line of barbed wire fence, several failed limbs with visible brown rot in main stem at 7m.	Fell to ground level.	H
T33a	SJ51097674	Horse Chestnut ( <i>A.hippocastanum</i> )	M	Height 14m. Significant rot in main stem on supporting side of lean, visible cavity of rot from ground to 2m.	Fell to ground level.	H
T64	SJ51027679	Cherry ( <i>Prunus sp'</i> )	M	Height 8m. 50% dieback in canopy, main stem is dead with visible cracking.	Fell to ground level.	H
T14	SJ51047675	Holly ( <i>Ilex sp</i> )	M	Height 8m. Multi stemmed from base with heavy ivy cover.	Remove ivy to reduce wind sail.	L
T23	SJ51097674	Ash ( <i>F.excelsior</i> )	M	Height 11m. Heavy ivy cover on main stem, possible ash dieback in canopy.	Remove ivy, reinspect for ash dieback in late summer.	L
T25	SJ51097674	Ash ( <i>F.excelsior</i> )	M	Height 11m. Heavy ivy cover on main stem.	Remove ivy to reduce wind sail.	L
T34	SJ51097674	Downy Oak ( <i>Quercus sp'</i> )	M	Height 21m. Heavy ivy cover on main stem.	Remove ivy to reduce mass loading and wind sail	L
T1	SJ51017680	Fir ( <i>Abies sp'</i> )	M	Condition good.	None	

T2	SJ51017680	Magnolia	M	Recent dieback in canopy likely due to late frost. Condition good.	None	
C1	SJ51007678	Line of nine Fir ( <i>Abies sp'</i> )	M	Condition good.	None	
C2	SJ51027678	Cluster of two ornamental Cherry.	M	Height 5-6m. Minor deadwood in canopy. Condition good.	None	
T3	SJ51027678	Fir ( <i>Abies sp'</i> )	M	Condition good.	None	
T4	SJ51017677	Cotoneaster ( <i>C.integerrimus</i> )	M	Height 5m. Condition good.	None	
T5	SJ51017677	Cotoneaster ( <i>C.integerrimus</i> )	M	Height 5m. Condition good.	None	
T6	SJ51037676	Cherry ( <i>Prunus sp'</i> )	M	Height 10m. Condition good.	None	
T7	SJ51037676	Cherry ( <i>Prunus sp'</i> )	M	Height 10m. Condition good.	None	
T8	SJ51037676	Cherry ( <i>Prunus sp'</i> )	M	Height 10m. Condition good.	None	
T9	SJ51047675	Rowan ( <i>S.aucuparia</i> )	M	Height 6m. Condition good.	None	
T10	SJ51047675	Rowan ( <i>S.aucuparia</i> )	M	Height 6m. Condition good.	None	
T11	SJ51047675	Rowan ( <i>S.aucuparia</i> )	M	Height 6m. Condition good.	None	
T12	SJ51047675	Rowan ( <i>S.aucuparia</i> )	M	Height 6m. Condition good.	None	
T13	SJ51047675	Rowan ( <i>S.aucuparia</i> )	M	Height 6m. Condition good.	None	
T15	SJ51077675	Cherry ( <i>Prunus sp'</i> )	M	Height 5m. Condition good.	None	
T16	SJ51077675	Cherry ( <i>Prunus sp'</i> )	M	Height 4m. Condition good.	None	
T17	SJ51077675	Cherry ( <i>Prunus sp'</i> )	M	Height 4m. Condition good.	None	
T18	SJ51077675	Apple ( <i>Malus sp'</i> )	M	Height 5m. Condition good.	None	



T19	SJ51077675	Apple ( <i>Malus sp'</i> )	M	Height 5m. Condition good.	None	
T20	SJ51077675	Apple ( <i>Malus sp'</i> )	M	Height 4m. Condition good.	None	
T21	SJ51077675	Cherry ( <i>Prunus sp'</i> )	M	Height 5m. Condition good.	None	
T22	SJ51077675	Apple ( <i>Malus sp'</i> )	M	Height 5m. Condition good.	None	
T24	SJ51097674	Holly ( <i>Ilex sp'</i> )	M	Height 6m. Condition good.	None	
T26	SJ51097674	Crack Willow	M	Height 18m. Condition good.	None	
T27	SJ51097674	Cherry ( <i>Prunus sp'</i> )	M	Height 16m. Condition good.	None	
T28	SJ51097674	Cherry ( <i>Prunus sp'</i> )	M	Height 16m. Condition good.	None	
T29	SJ51097674	Sweet Chestnut ( <i>C.satvia</i> )	M	Height 12m. Condition good.	None	
C3	SJ51097674	Group of two Silver Birch	M	Height 16m. Condition good.	None	
T30	SJ51097674	Crack Willow Salix sp'	M	Height 18m. Condition good.	None	
T35	SJ51097674	Douglas fir	M	Height 16m. Condition good.	None	
T36	SJ51107679	Whitebeam ( <i>Sorbus aria</i> )	M	Height 7m. Condition good.	None	
T37	SJ51107679	Whitebeam ( <i>Sorbus aria</i> )	M	Height 7m. Condition good.	None	
T38	SJ51107679	Whitebeam ( <i>Sorbus aria</i> )	M	Height 7m. Condition good.	None	
T39	SJ51107679	Whitebeam ( <i>Sorbus aria</i> )	M	Height 7m. Condition good.	None	
T40	SJ51097679	Amalanchier sp'	M	Height 4m. Condition good.	None	
T41	SJ51097679	Amalanchier sp'	M	Height 4m. Condition good.	None	
T42	SJ51097679	Amalanchier sp'	M	Height 4m. Condition good.	None	
T43	SJ51097679	Amalanchier sp'	M	Height 4m. Condition good.	None	
T44	SJ51097679	Cherry ( <i>Prunus sp'</i> )	M	Height 5m. Condition good.	None	

T45	SJ51097679	Cherry ( <i>Prunus sp'</i> )	M	Height 5m. Condition good.	None	
T46	SJ51097679	Cherry ( <i>Prunus sp'</i> )	M	Height 8m. Condition good.	None	
T47	SJ51057680	Cherry ( <i>Prunus sp'</i> )	M	Height 8m. Condition good.	None	
T48	SJ51057680	Cherry ( <i>Prunus sp'</i> )	M	Height 14m. Condition good.	None	
T49	SJ51057680	Cherry ( <i>Prunus sp'</i> )	M	Height 14m. Condition good.	None	
T50	SJ51057680	Cherry ( <i>Prunus sp'</i> )	M	Height 14m. Condition good.	None	
T51	SJ51057680	Cherry ( <i>Prunus sp'</i> )	M	Height 14m. Condition good.	None	
T52	SJ51027681	Cherry ( <i>Prunus sp'</i> )	M	Height 10m. Condition good.	None	
T53	SJ51027681	Cotoneaster ( <i>C.integerrimus</i> )	M	Height 9m. Condition good.	None	
T54	SJ51027681	Cotoneaster ( <i>C.integerrimus</i> )	M	Height 9m. Condition good.	None	
T55	SJ51027681	Cotoneaster ( <i>C.integerrimus</i> )	M	Height 9m. Condition good.	None	
T56	SJ51047678	Cherry ( <i>Prunus sp'</i> )	M	Height 10m. Condition good.	None	
T57	SJ51047678	Cherry ( <i>Prunus sp'</i> )	M	Height 8m. Condition good.	None	
T58	SJ51047678	Cherry ( <i>Prunus sp'</i> )	M	Height 10m. Condition good.	None	
T59	SJ51027682	Oak ( <i>Q.robur</i> )	SM	Height 12m. Condition good.	None	
T60	SJ51067677	Maple sp'	SM	Height 8m. Condition good.	None	
T61	SJ51067677	Maple sp'	SM	Height 8m. Condition good.	None	
T62	SJ51067677	Maple sp'	SM	Height 8m. Condition good.	None	
T63	SJ51077677	Giant sequoia ( <i>S.giganteum</i> )	Y	Height 16m. Condition good.	None	



### Appendix 3 – Tree Location Plan



Produced on May 11, 2023.  
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10 m  
 Scale 1:539 (at A4)  
 N

Map.1. Location of trees identified during tree condition survey. Target and Cluster trees relate to table in appendix 2.

#### Appendix 4 - Tree Photographs



Figure 1. T31 – 30% dieback in crown.



Figure 2. T33 – failed limbs



Figure 3. T33a – Significant rot in main stem.

#### **Appendix 5 – Further field notes and recommendations**

- It is recommended that a tree condition survey is carried out at intervals of 3 years due to the age of trees located on site and presence of target structures. Any sudden or noticeable changes such as limb loss, damage from storm events or dieback in the canopy of leaves and branches on trees then further arboriculture advice should be sought.
- The majority of trees located at Tarvin Road Cemetery are in the mature category meaning they are of similar age, planting of young trees as replacement specimens is recommended to achieve a diverse age structure within the tree stock.

**Hilldale Grounds Maintenance thanks you for your custom  
and would be happy to provide a quote for any remedial  
work recommended within this report**