

Tree Survey

at

Meliden, Sunnycroft Lane,

Dinas Powis

VALE OF RE-REGISTRATION

2 7 SEP 2011

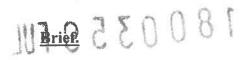
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20th September, 2010.

23 MAK 2889
Regeneration and Planning

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I have been instructed by David Preece of David Preece Consultancy to carry out a survey on trees at Meliden, Sunnycroft Lane, Dinas Powis.

Scope of Report

This Tree Survey has been undertaken within the recommendations of British Standards 5837:2005 and current good arboricultural practice.

The survey entailed a visual inspection from ground level of all trees.

Each tree has been numbered and, where instructed, for future identification on site, have been tagged using small durable metal or plastic tags.

Due to variations of existing ground levels through the site, height dimensions are estimated and are given in metres. Accurate heights, measured with the aid of optical instruments can be provided where instructed.

Trunk/stem diameters are measured at 1.5 metres above ground level, or immediately above the root flare for multi-stemmed trees.

Estimate branch spread is taken in metres from the centre of the trunk, at the four cardinal points of a compass, to achieve an accurate representation of crown shape.

An assessment of a tree's age classification is made in terms of it maturity within the site's landscape.

An assessment of a tree's physiological condition is to be made as good, fair, poor, dead.

Data on the structural condition of the tree should be entered, e.g., collapsing, leaning and the presence of any decay or physical defect should be noted.

Preliminary management recommendations include further investigation of suspected defects that require more detailed assessment and potential for wildlife habitat.

An assessment of a tree's future life expectancy is made as <10, 10-20, 20-40 or >40 etc.

The category for each tree is assessed using the recommendations of BS5837:2005.

Table 1 — Cascade chart for tree quality assessment.

 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 R category trees (i.e. where, for whatever reason, the loss of companion sheller cannot be mitigated by pruning)
 Tress that are dead or are showing signs of significant, immediate, and irreversible overall decline Tress infacted with pathogens of significance to the health and/or safety of other trees nearby (e.g. Dutch elm disease), or very low quality trees suppressing adjacent trees of better quality
NOTE Habitat reinstatement may be appropriato (e.g. Il category tree used as a bat roost; installation of hat box in nearby tree).
TREES TO BE CONSIDERED FOR RETENTION
.1 Mainly arhoricultural values
Trees that are particularly good examples of their species, especially if rare or unusual, or essential components of groups, or of formal or semi-formal arboricultural fealures (e.g. the dominant and/or principal trees within an avenue)
Trees that might be included in the high category, but are downgraded because of impaired condition (e.g. presence of remediable defects including management their was
nangenent and minor storm damogo)
Tross not qualifying in higher categories
NOTIE Whilst C tategory trees will usually not be retained where they would impose a significant constraint on development, young trees with a stem diameter of less than 150 mm ahould be considered for relocation.

G1 Group of Western Red Cedar (Thuja plicata)

Height 17m

Single/Multi stemmed Single stem
Stem Diameter Up to 0.45m
Branch Spread N - 3m

E - 3m S - 3m W - 3m

Height of Crown 3m

Age Middle age

Physiological Condition Fair

Structural Condition Trees of good form with well balanced crown, sited to the south of

retaining wall adjacent to drive thus potentially limiting rooting on

northern side of main stem.

Prel. Man. Recommendations No action required at this time.

Est. Remaining Contribution 20 - 40
Category C2

T2 Hawthorn (Crataegus monogyna)

Height 8m

> S-1m W-2m3m

Height of Crown 3r

AgeMiddle agePhysiological ConditionFair to poor

Structural Condition Tree of variable form with crown heavily suppressed by adjacent

conifers.

Prel. Man. Recommendations Prune to remove major deadwood. Monitor for health.

Est. Remaining Contribution 10 - 20
Category C

T3 Hazel (Corylus avellana)

Height 7m

Multi stemmed Single/Multi stemmed

Stem Diameter 0.5m N-2m**Branch Spread**

> E-4mS-1mW-2m

Height of Crown 1m

Age Middle age **Physiological Condition** Fair to poor

Structural Condition Tree of variable form with crown more heavily developed on

eastern side. Evidence of extensive crown reduction due to

presence of overhead cables.

No action required at this time. Prel. Man. Recommendations 20 - 40

Est. Remaining Contribution \mathbf{C} Category

Field Maple (Acer campestre) **T4**

Height 10m

Single/Multi stemmed Single stem Stem Diameter 0.59m N-6m**Branch Spread**

E-5mS-3mW - 5m

Height of Crown 2m

Mature Age **Physiological Condition**

Structural Condition Tree of variable form, former hedgerow specimen of notable size

for this species. Evidence of pruning within mid crown to

accommodate overhead cables.

Prel. Man. Recommendations Monitor for stability

Est. Remaining Contribution 10 - 20

C2 Category

Regeneration

T5 Cherry Laurel (Prunus laurocerasus)

Height 5m

Multi stemmed Single/Multi stemmed

Stem Diameter 0.3m N - 3m**Branch Spread** E-1m

> S - 0mW - 1m

Height of Crown 1m

Middle age Age **Physiological Condition** Poor

Structural Condition Evidence of severe basal decay. This specimen is at risk of

failure.

Prel. Man. Recommendations Remove **Est. Remaining Contribution** <10 R

Category

T6 Goat Willow (Salix caprea)

Height Multi stemmed

Single/Multi stemmed 0.3m

Stem Diameter N-1m**Branch Spread** E-4mS-2m

W - 3m**Height of Crown** 2m

Middle age

Physiological Condition

Structural Condition Multi stemmed specimen of poor form at risk of failure.

Prel. Man. Recommendations Remove **Est. Remaining Contribution** <10 R Category

Norway Maple (Acer platanoides)

Height 9m

T7

Single/Multi stemmed Single stem 0.16m **Stem Diameter** N-3m**Branch Spread** E - 3m

S-1mW-1m

Height of Crown 2m

Young Age **Physiological Condition** Poor

Tree of poor form. Evidence of mechanical damage at base. Main **Structural Condition**

stem divides at 2m, leading to twin stemmed mid crown.

Evidence of severe inclusion within fork at 2m. This specimen is

at risk of failure.

Prel. Man. Recommendations **Est. Remaining Contribution**

Remove <10 R

Category

T8 Field Maple (Acer campestre)

Height

Single/Multi stemmed Single stem 0.21m Stem Diameter N-3m**Branch Spread** E - 3m

S-2mW - 2m

Height of Crown 2m

Middle age

Physiological Condition Fair **Structural Condition** Roadside tree of reasonable form.

Prel. Man. Recommendations No action required at this time. >40 **Est. Remaining Contribution**

C Category

RECEIVED

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Regeneration and Flaming

G9 Group of 3 Western Red Cedar (Thuja plicata)

Height Up to 13m
Single/Multi stemmed Single stem
Stem Diameter Up to 0.26m
Branch Spread N - 3m

N - 3m E - 1m S - 2m W - 2m

Height of Crown 2m

AgeMiddle agePhysiological ConditionPoor

Structural Condition Trees of poor form with evidence of severe mechanical damage at

base.

Prel. Man. Recommendations Remove
Est. Remaining Contribution <10
Category R

T10 Field Maple (Acer campestre)

Height 9m Single/Multi stemmed Single stem

 Stem Diameter
 0.29m

 Branch Spread
 N - 6m

 E - 3m

S - 4m W - 2m4m

Height of Crown 4m

AgeMiddle agePhysiological ConditionFair to poor

Structural Condition Tree of variable form with evidence of minor mechanical damage

at base.

Prel. Man. Recommendations Monitor for health.

Est. Remaining Contribution 10 - 20 **Category** C

T11 Oak (Quercus robur)

Height 8m

Single/Multi stemmed Single stem Stem Diameter 0.31m N - 8m**Branch Spread**

> E - 8mS - 0mW - 0m

Height of Crown $2m_{-}$ Young Age

Physiological Condition Poor

Structural Condition Tree of poor form leaning extensively to north east. This

specimen is at risk of failure.

Prel. Man. Recommendations Remove Est. Remaining Contribution <10 R

Category

T12 Cherry (Prunus spp)

Height 11m

Single/Multi stemmed Single stem 0.31m Stem Diameter N-6m**Branch Spread** E-6m

S-1mW = 3m

Height of Crown 4m

Middle age

Physiological Condition Poor **Structural Condition** Tree of poor form with extensive decay on main stem. Upper

crown is dying back.

Prel. Man. Recommendations Remove

Est. Remaining Contribution <10 Category R

RECEIVED

T13 Hazel (Corylus avellana)

Height 5m

Single/Multi stemmedSingle stemStem Diameter0.11mBranch SpreadN-0mE-3m

S – 6m W – 0m 2m

R

Height of Crown 21

AgeMiddle agePhysiological ConditionPoor

Structural Condition Tree of poor form that is leaning extensively to south east. This

specimen is at risk of failure.

Prel. Man. Recommendations Remove
Est. Remaining Contribution <10

Category

G14

Group of Hazel (Corylus avellana), Hawthorn (Crataegus monogyna) and Field Maple (Acer campestre)

Height Up to 9m

Single/Multi stemmed Single and Multi stemmed

Stem Diameter Up to 0.3m

Branch Spread N-2m

E – 4m S – 2m W – 3m

Height of Crown 2m

AgeMiddle agePhysiological ConditionFair to poor

Structural Condition Hedgerow trees sited on raised bank. Mainly multi stemmed specimens with some stems leaning excessively to the east.

Evidence of some die-back within stems.

Prel. Man. Recommendations Prune to remove dead and excessively leaning stems. Monitor

remaining trees for health.

Est. Remaining Contribution 20 - 40

Category C2

G15 Group of Hazel (Corylus avellana) and Hawthorn (Corylus

avellana)

Height Up to 9m
Single/Multi stemmed Multi stemmed

Stem Diameter Up to 0.3m

Branch Spread N - 2m
E - 2m

S - 2m W - 2m

Height of Crown 0m

Age Middle age **Physiological Condition** Fair to poor

Structural Condition Remnant hedgerow made up primarily of Hazel. Some dead

Hawthorn stems within this group.

Prel. Man. Recommendations Remove dead trees

Est. Remaining Contribution 20 - 40 Category C

G16 Group of Hawthorn (Corylus avellana), Western Red Cedar

(Thuja plicata), Hazel (Corylus avellana) and Oak (Quercus

robur)

Height Up to 11m

Single/Multi stemmed Single and Multi stemmed

Stem DiameterUp to 0.3mBranch SpreadN-3mE-1mScalar

S - 2m W - 2m 1m

Height of Crown 1n

AgeMiddle agePhysiological ConditionFair to poor

Structural Condition Trees of variable form that have previously been poorly pruned in

relation to overhead cables.

Prel. Man. Recommendations Monitor for health.

Est. Remaining Contribution 10 - 20 Category C

T17 Field Maple (Acer campestre)

Height 11m Single/Multi stemmed Single stem Stem Diameter 0.39m

Branch Spread N - 4m E - 4m S - 3m

Physiological Condition Fair
Structural Condition Tree of reasonable form sited on low bank on boundary.

Prel. Man. Recommendations

Est. Remaining Contribution

No action required at this time. Monitor for health.

>40

Category B2

T18 Oak (Quercus robur)

Height 14m

 Single/Multi stemmed
 Single stem

 Stem Diameter
 0.44m

 Branch Spread
 N - 3m

 E - 6m

E - 6m S - 3m W - 7m

Height of Crown3mAgeMaturePhysiological ConditionFair to poor

Structural Condition Tree of reasonable form sited on low bank on boundary. Evidence

of die-back on south western side of mid crown typical of fire

damage.

Prel. Man. Recommendations

Est. Remaining Contribution

Prune to remove major deadwood. Monitor for health.

>40

Category C2

T19 Oak (Quercus robur)
Height 10m

> S – 3m W – 5m 4m

Height of Crown4mAgeMaturePhysiological ConditionFair

Structural Condition Specimen of reasonable form sited on low bank on boundary.

Evidence of previous severe pruning in mid crown. No action required at this time. Monitor for health.

Prel. Man. Recommendations
Est. Remaining Contribution
Category

No action required at this time. Mon
>40
B2

T20 Field Maple (Acer campestre)
Height 10m

Single/Multi stemmed Multi stemmed

Stem Diameter 0.4mBranch Spread N-2m E-5m S-4m W=3m

Height of Crown 4m
Age Mature
Physiological Condition Fair

Structural Condition Tree of reasonable form. Main stem divides at 0.7m to give twin

stemmed mid crown. Crown heavily colonised by ivy.

Prel. Man. Recommendations
Est. Remaining Contribution
Sever ivy at base. Monitor for health.
20 - 40

Category

C2



T21 Apple (Malus spp)

Height 7m

Single/Multi stemmedSingle stemStem Diameter0.31mBranch SpreadN - 3m

E – 4m S – 4m W – 3m

Height of Crown 3m Mature

Physiological Condition Fair to poor
Structural Condition Tree of variable form with evidence of poor quality pruning on

main stem. Some deadwood within crown.

Prel. Man. Recommendations Prune to remove major deadwood. Monitor for health.

Est. Remaining Contribution 10 - 20 Category C

G22 Group of Western Red Cedar (Thuja plicata)

Height Up to 14m

Single/Multi stemmed Single and Multi stemmed

Stem DiameterUp to 0.4mBranch SpreadN-2mE-2mS-2m

S – 2m W – 2m 2m

Height of Crown 2m

AgeMiddle agePhysiological ConditionFair to poor

Structural Condition Trees of variable form, some with notable sweeps at base of main

ste

Prel. Man. Recommendations

No action required at this time. Monitor for health.

10 - 20

Category C

G23

Group of Field Maple (Acer campestre) and Hazel (Corylus

avellana)

Height

Single/Multi stemmed

Stem Diameter Branch Spread Up to 9m

Single and Multi stemmed

Up to 0.3mN -2mE -4m

S - 3mW - 0m

Height of Crown

Age

Physiological Condition

Structural Condition

Prel. Man. Recommendations Est. Remaining Contribution

Category

1 m

Middle age

Fair to poor

Remnant hedgerow on boundary of site. Some deadwood within

crowns.

Prune to remove major deadwood. Monitor for health.

20 - 40

C

T24

Height

Single/Multi stemmed Stem Diameter Branch Spread

Height of Crown

Age

Physiological Condition Structural Condition

Prel. Man. Recommendations Est. Remaining Contribution

Category

Field Maple (Acer campestre)

8m

Single stem 0.29m N – 3m E – 0m

> S - 3mW = 3m

4m Mature Fair to poor

Tree of variable form sited on boundary.

Monitor for health.

10 - 20

C



T25 Field Maple (Acer campestre)

Height 8m

Single/Multi stemmed Multi stemmed

 Stem Diameter
 0.35m

 Branch Spread
 N - 4m

 E - 4m

S-2mW-2m

Height of Crown 3m Age Mature

Physiological Condition Fair to poor

Structural Condition Tree of variable form with extensive basal decay.

Prel. Man. Recommendations Undertake 3m crown reduction. Monitor for stability.

Est. Remaining Contribution 10 - 20 Category C

T26 Dead

T27 Oak (Quercus robur)

Height 12m

Single/Multi stemmed
Single stem
0.67m

Branch Spread
N - 10m
E - 8m

S – 9m W – 8m

Height of Crown3mAgeMaturePhysiological ConditionFair

Structural Condition Tree of variable form. Main stem divides at 2m, leading to twin stemmed mid crown. Tree of scrubby broad spreading habit.

Prel. Man. Recommendations No action required at this time. Monitor for health.

Est. Remaining Contribution >40
Category C2

Field Maple (Acer campestre)

12m Height

T28

Multi stemmed Single/Multi stemmed

0.7mStem Diameter N-6m**Branch Spread** E-5m

S-7mW - 4m

2m Height of Crown Mature Age

Physiological Condition Fair to poor

Structural Condition Multi stemmed specimen of variable form sited on low bank on

boundary.

Prune to remove major deadwood. Crown raise to 3m. Monitor Prel. Man. Recommendations

for health.

20 - 40

Est. Remaining Contribution

C2 Category

T29 Ash (Fraxinus excelsior)

Height 16m

Single stem Single/Multi stemmed 0.57m Stem Diameter N - 6m**Branch Spread** E-10m

> S - 8mW - 8m

4m **Height of Crown** Mature Age **Physiological Condition** Fair

Tree of reasonable form with well balanced crown. Some **Structural Condition**

deadwood within lower crown.

Prune to remove major deadwood. Monitor for health. Prel. Man. Recommendations

>40 **Est. Remaining Contribution**

Category

B2



G30 Group of Field Maple (Acer campestre) and Hawthorn

(Crataegus monogyna)

Height Up to 5m
Single/Multi stemmed Single stem

Stem Diameter0.12mBranch SpreadN-2mE-2m

S-2mW-2m

Height of Crown 2m Age Young

Physiological Condition Fair

Structural Condition Young self sown specimens of reasonable form.

No notion required at this time.

Prel. Man. Recommendations

Est. Remaining Contribution

No action required at this time.

>40

Category C

T31 Oak (Quercus robur)

Height 5m

Single/Multi stemmed Single stem
Stem Diameter 0.17m

Branch Spread N-3m E-3m

S – 2m W – 3m

Height of Crown
Age
Physiological Condition

2m
Young
Fair to poor

Structural Condition Self sown specimen of scrubby habit. Evidence of thinning of

foliage.

Prel. Man. Recommendations

Est. Remaining Contribution

Monitor for health.

10 - 20

Category C

G32

Group of Field Maple (Acer campestre), Hazel (Corylus avellana), Hawthorn (Crataegus monogyna), Sycamore (Acer pseudoplatanus) and Blackthorn (Prunus spinosa)

Height

Single/Multi stemmed

Stem Diameter Branch Spread Up to 10m

Single and Multi stemmed

Up to 0.3m

N-3m

E-2mS-3m

W - 2m

0m

Height of Crown

Age

Physiological Condition Structural Condition

Prel. Man. Recommendations Est. Remaining Contribution

Category

Young/Middle age

Fair to poor

Self sown specimens of scrubby form developed into dense copse.

No action required at this time. Monitor for health.

10 - 20

C

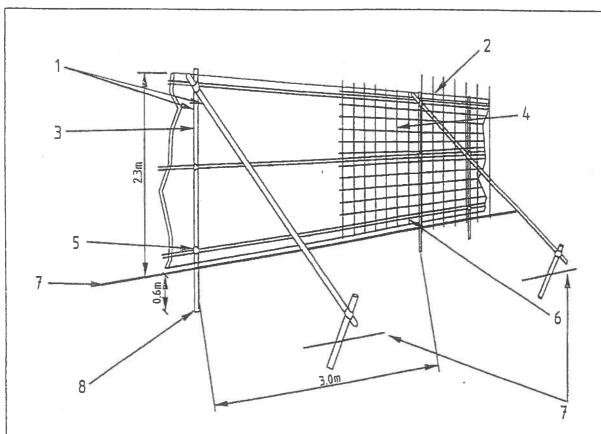


Recommendations for Tree Protection during Development

Due to the high risk to established trees we would recommend the installation of protective fencing prior to commencement of <u>any</u> works on site in accordance with BS 5837:2005 "Trees in relation to Construction". Trees should be protected using scaffold frame supporting weld mesh panel fencing sited on the edge of the Root Protection Area as defined in BS5837:2005. These fenced areas should not be used for the storage of any plant machinery or materials and personnel should be excluded at all times; these fences should remain in situ until after final landscaping has been carried out, removed by hand with great care to prevent compaction or root damage to established trees. The services of a suitably qualified arborist should be sought <u>prior</u> to the commencement of each stage.

BS5837:2005 - 'TREES IN RELATION TO CONSTRUCTION -**RECOMMENDATIONS'**

PROTECTIVE BARRIER - DETAIL



- 1 Standard scaffold poles
- 2 Uprights to be driven into the ground
- 3 Panels secured to uprights with wire ties and where necessary standard scaffold clamps 7 Ground level
- 4 Weldmesh wired to the uprights and horizontals
- 5 Standard clamps
- 6 Wire twisted and secured on inside face of fencing to avoid
- 8 Approx. 0.6 m driven into the ground

Figure 2 — Protective barrier

2 3 MAK 2813

Regeneration and manning

