

# Technical Appendix 10A: Tree Constraints

Penpergwm Solar Farm

22/06/2021

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## STATEMENT OF PURPOSE

*This draft Tree Constraints Plan is being published to accompany pre-application consultation carried out under Articles 8 and 9 of the Development of National Significance (Procedure) (Wales) Order 2016. The formal pre-application consultation runs until 25<sup>th</sup> August 2021. This report is to be read in conjunction with:*

- *Volume 3: Technical Appendix 10B: Arboricultural Impact Assessment and Tree Protection Plan*

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## INTRODUCTION

### Background

- 10.1. Wilson Tree Surveys has been appointed by Neo Environmental Limited, on behalf of Great House Energy Centre Limited (the “Applicant”) to complete a Tree Survey according to British Standard BS5837:2012: Trees in Relation to Design, Demolition and Construction, for a proposed solar farm and associated infrastructure (the “Proposed Development”) on lands 0.5km north of Penpergwm and circa 3.9km southeast of Abergavenny, Monmouthshire (the “Application Site”).
- 10.2. Please see **Figure 4 of Volume 2** for the layout of the Proposed Development.

### Development Description

- 10.3. The Proposed Development consists of the construction of a 40MW solar farm and will comprise PV panels mounted on metal frames, inverter and transformer units, new access tracks, underground cabling, perimeter fencing with CCTV cameras and access gates, a temporary construction compound and all ancillary grid infrastructure and associated works.

### Site Description

- 10.4. The Application Site is located on lands 0.5km north of Penpergwm and c. 3.9km southeast of Abergavenny, Monmouthshire; the approximate centre point of which is Grid Reference E332954, N211435. Comprising 14 agricultural fields, the Application Site measures 70.03 hectares (ha) in total with only c. 17.61 hectares of the landscape under the solar arrays themselves. See **Figure 4 of Volume 2: Planning Application Drawings** for details.
- 10.5. Land within the Application Site itself is undulating, ranging between 61 – 140m Above Ordnance Datum (AOD) and consists of fields typically of medium scale, bound by a mixture of grassy field margins, semi-mature hedgerows, and intermittent trees (see **Figure 3 of Volume 2: Planning Application Drawings** for field numbers).
- 10.6. The Application Site is in an area with existing electricity infrastructure with a pylon line crossing Field 3 to the north and running in a north – south direction between Fields 6 and 7 and to the west of Field 8.
- 10.7. The local area is largely agricultural in nature, punctuated by individual properties and farmsteads; the nearest residential areas are the villages of Penpergwm and The Bryn; located 0.5km and 0.9km north respectively. Recreational Routes include two Public Rights of Way (PRoW) which pass through Fields 8, 9, 10 and 11 in the southern section of the site and an Other Route with Public Access (ORPA) which passes from Great House along the eastern boundary of Field 14 and through the treeline on the southern border of Fields 5, 6 and 7. Another PRoW passes along the northern boundary of Fields 1, 3 and 4.

- 10.8. While there are a number of drains and watercourses throughout the Application Site, including a small tributary of the Frwd Brook bordering Field 11, the site is entirely contained within Flood Zone A, an area described as having a “*Low probability*” of flooding.
- 10.9. The Application Site will be accessed via an improved farm access situated on the southern boundary. Traffic will approach the site entrance from the south using a local road from Penpergwmm for approximately 800m. Traffic will be routed to Penpergwmm from the north via the B4598. This road connects to the strategic road network south of Abergavenny at the A40 / A465 interchange.

#### Situation:

- 10.10. The Proposed Development occupies an undulating site on the slopes of a low hill at an elevation of 68-132m outside the village of Llanddewi Rhydderch, Monmouthshire. The site is in a rural location, surrounded by farmland in the valley of the River Usk (Ordnance Survey, 2020). The local topography to the east is dominated by low undulating hills with frequent small woodlands and copses, with the River Usk lying 1.5km to the S. The hills of the Brecon Beacons and Black Mountains rise to c. 500m elevation, 5km to the W. Although this region is generally subject to moderate to low wind exposure, the elevated position may lead to a modest increase in wind speeds. The presence of the mountains to the W are likely to generate significant shelter and no gross morphological indications of wind exposure were observed.
- 10.11. Surface deposits consist of variable clays, sands and gravels of glacial origin (aka ‘Devensian Till’ or ‘Diamicton’) overlying sandstones, limestones and mudstones (BGS, 2020). There are no relevant boreholes in the vicinity. Soil type is described as a free-draining slightly acid loam of low fertility (LandIS, 2020). Conditions for tree growth are therefore moderately good with generally low wind exposure, low soil fertility and adequate water availability.

#### Weather and access conditions

- 10.12. Inspection took place between June 8<sup>th</sup> and 11<sup>th</sup>, 2020. Weather conditions varied during the survey period but were adequate at all times. Access was generally adequate but some trees were obscured from view by exceptionally dense ivy or other vegetation while others were adjacent to site boundaries or surrounded by dense vegetation and were assessed from one side only.

#### Statutory protections:

- 10.13. No Tree Preservation Orders or Conservation Area statuses are in force at Great House Farm (phone enquiry to Monmouthshire County Council Tree Officer made at 14:25 on 17/06/2020). The property is subject to the provisions of the Forestry Act (1967) and a Felling Licence may be required in order to undertake felling operations resulting in the production of >5m<sup>3</sup> timber in any calendar quarter.

## Techniques Employed

- Visual Tree Assessment (VTA; Lonsdale, 1999);
- Desk-based enquiries (legal status, geology, mapping);
- THREATS analysis (where required; Forbes-Laird, 2010); and
- RAVEN assessment (Forbes-Laird, 2019).

## Limitations

- 10.14. The contents are intended for the sole use of the client. It is also understood that the document may be shared with the Local Planning Authority and professionals concerned with the Proposed Development. No liability is accepted for their use by any other parties to advance an argument or claim (including legal or financial) without prior consent.
- 10.15. No liability is accepted for defects or features hidden from view by soil, vegetation or other obstacles to access.
- 10.16. Formal assessment of topography, drainage, service conduits, & soil conditions have not been made and are beyond the scope of this report.
- 10.17. Specific laboratory investigations of soil properties (plasticity index, moisture content, soil suction pressure) have not been made and are beyond the scope of this report.
- 10.18. This report considers only the general condition and value of the trees as they relate to the proposed construction project. It must not be relied upon as a risk-based analysis of tree safety. Any comments relating to the potential of trees to cause damage or injury under normally expected weather conditions are entirely incidental.
- 10.19. This report considers only the potential for the surveyed trees to be damaged by the proposed development, and for the building and construction activities to be affected by the trees under normally expected weather conditions. No liability for damage arising from any other source or mechanism is accepted.
- 10.20. Tree root positions have not been definitively ascertained or mapped. The likely distribution of tree roots has been estimated based on visible root and buttress morphology, the presence of visible barriers to root development and a knowledge of tree root behaviour. Advice has therefore been framed in terms describing their likely presence or absence. The avoidance of roots cannot be guaranteed. No liability is therefore accepted for costs arising from the unexpected presence of tree roots.
- 10.21. Advice is based on the descriptions of existing ground surfaces, of the proposed construction and of proposed construction techniques provided in electronic documents by the client. No liability is accepted for errors or omissions arising from the information contained in these sources.



- 10.22. This report will be deemed to be invalid if a history of vegetation related subsidence damage in this or surrounding properties exists but has not been made known to the surveyor.
- 10.23. This report considers adverse impact mitigation measures, as opposed to impact elimination. Thus, if a tree is retained, a level of potential impact will remain. It is expected that such impacts will be managed by the owner / occupier on an ongoing basis.
- 10.24. The tree survey plan is based on site drawing supplied by Neo Environmental on June 3rd, 2020. The client is responsible for the accuracy of these drawings, of design descriptions supplied, and for the advice based on them. No liability is accepted for errors or omissions arising from inaccuracies in or omissions from the plans provided by third parties.
- 10.25. Generally, tree stems were not plotted in the topographical survey plan received. Accurate positions were plotted for trees 1004-9, 1019, 1026-27, 1035, 1056-57, 1061, 1069, 1075 and TG1022. Outlines of hedgerows and woodland groups were also provided. All other trees and tree groups are shown in approximate locations. Best endeavours have been made to represent them in their true locations. Plans contained in this report must not be relied upon for accurate determinations of root protection areas, tree conflicts or detailed setting out. Tree locations must be confirmed by on-site inspection. Wilson Tree Surveys accepts no liability for errors, omissions or economic consequences arising from the use of this plan.
- 10.26. It is understood that any risks associated with these limitations are accepted by the clients.

#### Validity:

- 10.27. Plants are biological organisms & change with time. Assessment remains valid for 12 months from the date of inspection, or until a major storm (Wind Force 6 +) is experienced.

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# TREE ASSESSMENT

Table 10A.1: Tree survey data schedule for individual trees

| Ref. No. | Species  | Ht.<br>(m) | Crown Spread (m) |     |     |     | Ht. 1 <sup>st</sup> Br.<br>(m) | Ht. Can.<br>(m) | Stem Count | Stem Dia. (mm) |   |   |   |   | Life Stage | Phys. Condition | Structural condition & Notes  | Management recommendations            | Ret. Span | QV Grade |
|----------|----------|------------|------------------|-----|-----|-----|--------------------------------|-----------------|------------|----------------|---|---|---|---|------------|-----------------|---|---------------------------------------|-----------|----------|
|          |          |            | N                | S   | W   | E   |                                |                 |            | 1 / mean       | 2 | 3 | 4 | 5 |            |                 |   |                                       |           |          |
| 1001     | Ash      | 7.4        | 2                | 2.5 | 3.5 | 1   | 2.5 W                          | 3               | 1          | 240            |   |   |   |   | EM         | G               | Remaining stem of multi-stemmed tree, four stems removed. Appearance suggests former boundary coppice. Large region of exposed desiccated wood at ground level to 0.5m S. Abnormal hammer taps to E. No fungal fruiting bodies observed. Surface roots damaged. No symptoms consistent with Ash Dieback Disease observed.   | No action required at time of survey. | 10+       | C2       |
| 1002     | Hawthorn | 5.5        | 2                | 2   | 2   | 2.5 | 1 N                            | 1.5             | 1          | 150            |   |   |   |   | M          | F               | Unremarkable. Form and condition typical for species. No significant defects. Diameter at breast height measured at 1m due to form.   | No action required at time of survey. | 20+       | C1       |
| 1003     | Hawthorn | 7          | 4.75             | 2.5 | 4.5 | 3   | 0.4 E                          | 0               | 1          | 450            |   |   |   |   | OM         | G               | Form suggestive of boundary coppice. Crown consists of regrowth from pollard stump at 1.5m. Basal stem form suggests layered. Exposed decayed wood at 0.75m N. Stem hollow. Lump of broken decayed wood on ground. Roots extensively undermined by rabbit burrows. Evidence of soil movement adjacent to stem. Dense bramble growth to 5m. Partial inspection only. No fungal fruiting bodies observed.   | No action required at time of survey. | 10+       | C1       |
| 1004     | Ash      | 17.2       | 5                | 12  | 8   | 7   | 2                              | 2.5             | 1          | 1700           |   |   |   |   | OM         | F               | Diameter at breast height measured at 1m due to form. Single-stemmed at ground level. Bole 1.75m. Three principal stems arise; 4th stem to NW lost. Butt and bole extensively hollow. Open cavities visible on primary structure to 3m. Brown rot present. Stem to SW truncated at 4m with fracture. Other major branch loss to 8m S. Crown light but overall healthy. Infrequent significant deadwood. Nesting hole 10m W associated with brackets of the primary decay fungus Inonotus hispidus and of saprophytic fungus Daldinia concentrica. RAVEN assessment: features consistent with "ancient veteran" tree descriptor. | No action required at time of survey. | >40       | A1,3*    |
| 1005     | Ash      | 13.8       | 9                | 7   | 7   | 8   | 3 S                            | 2               | 1          | 1434           |   |   |   |   | OM         | G               | Diameter at breast height measured at 1m due to form. Single-stemmed at ground level. Bole 1.75m. Two principal stems arise; 3rd stem to SE lost and on ground below. Butt and bole extensively hollow. Open cavities visible on primary structure to 1.5m. Brown rot present. Crown overall healthy. Infrequent significant deadwood. Multiple scars associated with the primary decay fungus Inonotus hispidus to 6m. RAVEN assessment: features consistent with "veteran tree" descriptor.   | No action required at time of survey. | >40       | A1,3*    |
| 1006     | Ash      | 17.8       | 4                | 9   | 7.5 | 6   | 3.5 NE                         | 2.5             | 1          | 747            |   |   |   |   | M          | F               | Butt extensively hollow. Open cavity visible at ground level N. Frequent major and significant deadwood - dieback but pattern not consistent with Ash Dieback Disease. Bracket of the primary decay fungus Inonotus hispidus at 12m E. Major limb lost at 12m S. Wind vulnerable major limb arising 8m SW. Non-notable, non-veteran.  | No action required at time of survey. | 10+       | C1       |
| 1007     | Ash      | 14.4       | 5                | 7   | 6   | 7.5 | 3 E                            | 2               | 1          | 612            |   |   |   |   | M          | G               | Butt extensively hollow. Open cavity visible at ground level N with old fronds of the saprophytic decay fungus Pseudotrmetes gibosa. Crown healthy. Frequent significant deadwood - no Ash Dieback Disease. Nesting hole 8m S. Non-notable, non-veteran.  | No action required at time of survey. | 20+       | B1       |

| Ref. No. | Species         | Ht.<br>(m) | Crown Spread (m) |      |     |      | Ht. 1 <sup>st</sup><br>Br.<br>(m) | Ht. Can.<br>(m) | Stem<br>Count | Stem Dia. (mm) |     |   |   |   | Life Stage | Phys.<br>Condition | Structural condition & Notes | Management recommendations  | Ret. Span                             | QV Grade |    |
|----------|-----------------|------------|------------------|------|-----|------|-----------------------------------|-----------------|---------------|----------------|-----|---|---|---|------------|--------------------|------------------------------|---|---------------------------------------|----------|----|
|          |                 |            | N                | S    | W   | E    |                                   |                 |               | 1/<br>mean     | 2   | 3 | 4 | 5 |            |                    |                              |   |                                       |          |    |
| 1008     | Pedunculate oak | 14.5       | 8                | 10.5 | 10  | 7.3  | E                                 | 2.5             | 1             | 991            |     |   |   |   |            | M                  | G                            | Single-stemmed at ground level. Normal hammer taps. No fungal fruiting bodies observed. Stands on 0.5m ditch bank. Soil erosion has created stilt-like exposure of major roots. Low density ivy obscured stem and principal unions between 2-8m. Partial inspection only. Stem, principal unions and primary limbs appear to be in good structural condition. Bifurcation 4m appears to be a non-included bark union. Crown full, healthy, reasonably symmetrical. Infrequent significant deadwood. Deadwood in crown apex limited to single 4th order branch. Single branch fracture in upper crown S. Mature tree in good health and with no significant defects. | No action required at time of survey. | >40      | A1 |
| 1009     | Pedunculate oak | 15.5       | 7                | 8.5  | 6   | 6.5  | 2 E                               | 2.5             | 1             | 931            |     |   |   |   |            | OM                 | G                            | Single-stemmed at ground level. Normal hammer taps. No fungal fruiting bodies observed. Stands on 0.5m ditch bank. Soil erosion has created stilt-like exposure of major roots. Low density ivy obscured stem and principal unions between 2-8m. Partial inspection only. Stem, principal unions and primary limbs appear to be in good structural condition. Crown full, healthy, reasonably symmetrical. Infrequent significant deadwood. Large amounts of major deadwood in crown apex giving stag-headed appearance. Mature tree retrenching to form lower crown.   | No action required at time of survey. | >40      | A1 |
| 1010     | Ash             | 16         | 5                | 5    | 6   | 6    | 5                                 | 10              | 2             | 850            | 300 |   |   |   |            | M                  | F                            | Off-site. Behind fence. Dense vegetation obscured stem and principal unions to 10m. Inspected from 6m S. Partial inspection only. Bark dysfunctional and flaking from stem. Stands on near-vertical stream bank. At least two decayed major limb stubs. Frequent significant deadwood. Untidy nest in upper crown. Overall appears to be in decline. No symptoms consistent with Ash Dieback Disease observed.  | No action required at time of survey. | 10+      | C1 |
| 1011     | Ash             | 13.5       | 6.5              | 7    | 6.5 | 7.2  | N                                 | 1.75            | 6             | 179            |     |   |   |   |            | M                  | G                            | Single-stemmed at ground level. Bole 1m. Stems arise with included bark unions. Remaining stem, principal unions and primary limbs appear to be in good structural condition. No significant defects. Normal hammer taps. No fungal fruiting bodies observed. Lacks special qualities of Category A.  | No action required at time of survey. | 20+      | B1 |
| 1012     | Hazel           | 6          | 2.5              | 3    | 4   | 3    | 0                                 | 0.5             | 24            | 66             |     |   |   |   |            | M                  | G                            | Multi-stemmed at ground level. Form suggests coppice tree. Outgrown into mature tree. Stem, principal unions and primary limbs appear to be in reasonable structural condition. No fungal fruiting bodies observed. Lacks special qualities of Category A.  | No action required at time of survey. | 20+      | B1 |
| 1013     | Alder           | 16         | 5                | 6    | 3   | 4.5  | 0.5 S                             | 4               | 2             | 700            | 600 |   |   |   |            | M                  | G                            | Off-site. Behind fence. Dense vegetation obscured stem and principal unions to 10m. Inspected from 2m S. Partial inspection only. Stands on stream bank. Stems arise from a common bole at ground level with a non-included bark union. Third stem to S removed. Visible stem, principal unions and primary limbs appear to be in reasonable structural condition although the two stems diverge at a wide angle and are somewhat wind-vulnerable. No fungal fruiting bodies observed.  | No action required at time of survey. | 20+      | B1 |
| 1014     | Pedunculate oak | 18.5       | 10               | 10   | 11  | 11.5 | 4 E                               | 3               | 1             | 1350           |     |   |   |   |            | M                  | P                            | Off-site. Behind fence. Dense vegetation obscured stem and principal unions to 10m. Managed moderate density ivy obscured stem and principal unions to 4m. Inspected from 2m S. Partial inspection only. Stands on stream bank. Multiple brackets of the primary decay fungi Ganoderma applanatum and resinaceum. Extensive significant deadwood throughout crown. Foliage under-developed and lighter than is normal. Established dieback. Slow decline anticipated.   | No action required at time of survey. | 10+      | C1 |
| 1015     | Alder           | 13.5       | 5                | 6    | 7   | 4.5  | 7 W                               | 6               | 1             | 325            |     |   |   |   |            | M                  | F                            | Off-site. Behind fence. Dense vegetation obscured stem and principal unions to 10m. Inspected from 1m S. Partial inspection only. Stands on stream bank. Stem, principal unions and primary limbs appear to be in good structural condition, minor defects only. Crown biased S, N crown showing signs of dieback, presumably due to competition. Attractive tree but lacks special qualities of Category A.  | No action required at time of survey. | 20+      | B1 |

| Ref. No. | Species         | Ht. (m) | Crown Spread (m) |      |     |      | Ht. 1 <sup>st</sup> Br. (m) | Ht. Can. (m) | Stem Count | Stem Dia. (mm) |      |   |   |   | Life Stage | Phys. Condition | Structural condition & Notes  | Management recommendations            | Ret. Span | QV Grade |
|----------|-----------------|---------|------------------|------|-----|------|-----------------------------|--------------|------------|----------------|------|---|---|---|------------|-----------------|---|---------------------------------------|-----------|----------|
|          |                 |         | N                | S    | W   | E    |                             |              |            | 1 / mean       | 2    | 3 | 4 | 5 |            |                 |   |                                       |           |          |
| 1016     | Ash             | 19.5    | 15               | 10.5 | 15  | 11.5 | 1.5 W                       | 6            | 2          | 1350           | 550  |   |   |   | M          | G               | Off-site. Stands on edge near vertical stream bank. Unclear if secondary stem is part of same tree. Main stem bifurcation at 4m with long-standing included bark union and low grade reaction wood. Geometry appears stable. Large amounts of significant deadwood throughout crown but appears to be physiological in origin. Overall crown condition good. No symptoms consistent with Ash Dieback Disease observed. Major branch loss stubs at 8m. Brackets of saprophytic fungus Daldinia concentrica on dead limb arising from secondary stem. Size and stature significant, defects remediable, included bark union stable. RAVEN assessment: <b>Notable, non-veteran</b> .   | No action required at time of survey. | >40       | A1*      |
| 1017     | Ash             | 10      | 4.5              | 3    | 3   | 3.5  | 1 E                         | 3            | 1          | 195            |      |   |   |   | EM         | G               | Stands within HR1007 on 0.5m earth bank with ditch adjacent. Stem arises on N face of bank, turns 90° to upright. Stem malformed. Bifurcation at 5m. Primary limbs twist around each other to form natural brace. Crown full and healthy. No symptoms consistent with Ash Dieback Disease observed. Reasonable structural condition but low merit.  | No action required at time of survey. | 20+       | C1       |
| 1018     | Pedunculate oak | 12      | 6                | 4    | 7   | 5    | 1 S                         | 1.75         | 1          | 500            |      |   |   |   | EM         | G               | Off-site. Inspected at 7m distance from W. Partial inspection only. Visible stem, principal unions and primary limbs appear to be in reasonable structural condition. Good future potential. No significant defects. Lacks special qualities of Category A.   | No action required at time of survey. | >40       | B1       |
| 1019     | Crack willow    | 12      | 5                | 5    | 4   | 4    | 2                           | 2.5          | 1          | 600            |      |   |   |   | M          | G               | Off-site. Stem and principal unions obscured by 3.5m hedge. Partial inspection only. Visible parts of primary structure appear to be in reasonable structural condition. No significant defects.  | No action required at time of survey. | 20+       | B1       |
| 1020     | Hawthorn        | 5.5     | 3                | 3    | 2.5 | 2.5  | 0.5                         | 1            | 10         | 65             |      |   |   |   | M          | G               | Off-site. Inspected at 3m distance from W. Partial inspection only. Visible parts of stem, principal unions and primary limbs appear to be in reasonable structural condition. No significant defects. Low merit.   | No action required at time of survey. | 20+       | C1       |
| 1021     | Ash             | 18      | 6                | 10   | 7.5 | 5.5  | 5 E                         | 2            | 1          | 688            |      |   |   |   | M          | P               | Single-stemmed at ground level. Normal hammer taps. No fungal fruiting bodies observed. Areas of exposed desiccated wood at ground level. Stem, principal unions and primary limbs appear to be in reasonable structural condition. Crown hollowed out with frequent significant deadwood. Ash Dieback Disease suspected. In combination with basal bark loss my indicate co-infection with the primary decay fungus Armillaria gallica. In decline.  | No action required at time of survey. | <10       | U        |
| 1022     | Willow sp       | 10      | 3                | 4    | 2   | 6    | 3 S                         | 3            | 1          | 310            |      |   |   |   | M          | D               | Dead tree on margin WG1003 and inclined 45° towards development area. Rhizomorphs of the primary decay fungus Armillaria gallica visible. Root area extensively undermined by rabbit burrows.   | Fell prior to commencement.           | <10       | U        |
| 1023     | Ash             | 21.5    | 8                | 10   | 6   | 11   | 0.5 NE                      | 1            | 1          | 730            |      |   |   |   | M          | G               | Single-stemmed at ground level. Normal hammer taps. No fungal fruiting bodies observed. Stands on earth bank, no undermining apparent. Buttresses exposed. Stem inclined 10° SE. Stem, principal unions and primary limbs appear to be in reasonable structural condition. Exposed area of desiccated wood at ground level SE with good woundwood formation. Crown full, healthy. No symptoms consistent with Ash Dieback Disease observed. Large and impressive but defects downgrade tree from Category A.  | No action required at time of survey. | 20+       | B1       |
| 1024     | Beech           | 21      | 5                | 13   | 6   | 8    | 1 S                         | 2            | 2          | 725            | 1125 |   |   |   | M          | G               | Single stool at ground level c. 3.5m diameter. Bifurcation at 1.5m. Stem diameter measured above bifurcation due to form. Large, deeply fluted stool with basal decay and openings to heartwood with good woundwood formation. Putative fox earth below. On steep earth bank with 25° incline SE. Normal hammer taps. No fungal fruiting bodies observed. Stem, principal unions and primary limbs appear to be in good structural condition. Occasional major deadwood. Crown full and healthy. Assymetry and leaning habit minor defects in context of size, habitat value and aesthetics of tree. A particularly valuable landscape feature. RAVEN assessment: features and size consistent with "notable, non-veteran" descriptor. Size at lower limit of "ancient" category, | No action required at time of survey. | >40       | A1*      |
| 1025     | Crack willow    | 8.5     | 3                | 6    | 4.5 | 5    | 1.5 S                       | 2            | 2          | 360            | 328  |   |   |   | M          | G               | Stands in pond. Stems inclined 50° S. Inspected from 10m. Partial inspection only. Stem, principal unions and primary limbs appear to be in reasonable structural condition. Infrequent significant deadwood and fractured limbs. Crown full and healthy. Reasonably attractive feature with pond.  | No action required at time of survey. | 20+       | B1       |

| Ref. No. | Species         | Ht.<br>(m) | Crown Spread (m) |     |      |     | Ht. 1 <sup>st</sup><br>Br.<br>(m) | Ht. Can.<br>(m) | Stem<br>Count | Stem Dia. (mm) |     |     |   |   | Life Stage | Phys.<br>Condition | Structural condition & Notes  | Management recommendations            | Ret. Span | QV Grade |
|----------|-----------------|------------|------------------|-----|------|-----|-----------------------------------|-----------------|---------------|----------------|-----|-----|---|---|------------|--------------------|---|---------------------------------------|-----------|----------|
|          |                 |            | N                | S   | W    | E   |                                   |                 |               | 1 /<br>mean    | 2   | 3   | 4 | 5 |            |                    |   |                                       |           |          |
| 1026     | Pedunculate oak | 15         | 6                | 5   | 6    | 5   | 1.75 S                            | 2               | 1             | 703            |     |     |   |   | M          | P                  | Single-stemmed at ground level. Normal hammer taps. No fungal fruiting bodies observed. Single black exudate bleed 1m SW. Extensive major and significant deadwood. Initial stag-head deadwood development and attempted retrenchment overtaken by rapidly advancing peripheral dieback. In rapid decline. Suspected root dysfunction.  | No action required at time of survey. | <10       | U        |
| 1027     | Pedunculate oak | 15         | 7                | 9   | 10.5 | 9.5 | 2 NE                              | 3               | 1             | 939            |     |     |   |   | M          | F                  | Single-stemmed at ground level. Stem, principal unions and primary limbs appear to be in reasonable structural condition. Voids beginning to form between buttresses, probed >350mm with evidence of decayed wood within. Normal hammer taps. No fungal fruiting bodies observed. Crown densely foliated, healthy colour but frequent major and significant deadwood, extending to the periphery. Dense epicormic growth on stem and primary limbs. Old dried blackened remains of exudate at 1.5m S. Root dysfunction suspected. Currently overall satisfactory but future retention in doubt. | No action required at time of survey. | 20+       | B1       |
| 1028     | Hazel           | 8.5        | 2                | 4   | 5    | 5   | 1.5 S                             | 1               | 30            | 65             |     |     |   |   | M          | G                  | Coppice hazel. Unremarkable. Would benefit from re-coppicing.   | No action required at time of survey. | 20+       | B1       |
| 1029     | Ash             | 13         | 7                | 6.5 | 6    | 6   | 1.5 S                             | 3               | 6             | 270            |     |     |   |   | M          | G                  | Overstood, layered boundary coppice. Stem and principal unions obscured by HR1014 to 4m. Partial inspection only. Basal decay. No fungal fruiting bodies observed. Other visible stem, principal unions and primary limbs appear to be in reasonable structural condition. Crown full and healthy. No symptoms consistent with Ash Dieback Disease observed. S stem attached with included bark union.  | No action required at time of survey. | 20+       | B1       |
| 1030     | Sessile oak     | 12         | 5                | 5   | 4    | 5   | 2 NE                              | 3.5             | 1             | 400            |     |     |   |   | M          | G                  | Single-stemmed at ground level. Stem inclined 5° E. Basal canker and decay. No fungal fruiting bodies observed. Other stem, principal unions and primary limbs appear to be in reasonable structural condition. Form drawn up due to competition. Infrequent significant deadwood and fractured limbs.  | No action required at time of survey. | >40       | B1       |
| 1031     | Hybrid oak      | 13         | 12.5             | 10  | 9    | 10  | 2 W                               | 1.5             | 2             | 580            | 598 |     |   |   | M          | G                  | Single-stemmed at ground level. Normal hammer taps. No fungal fruiting bodies observed. Bifurcation at 1m. Union open, well-formed but with a distinct bark ridge below. Fully fused natural brace at 2.5m. Stem, principal unions and primary limbs appear to be in good structural condition. No significant defects. Crown full and healthy. Large dead limb resting in bole, origin unknown. Classic crown outline. Good example of species.  | No action required at time of survey. | >40       | A1       |
| 1032     | Pedunculate oak | 15         | 8                | 7   | 8.5  | 9   | 3 W                               | 2               | 1             | 870            |     |     |   |   | M          | G                  | Single-stemmed at ground level. Normal hammer taps. No fungal fruiting bodies observed. Stands on steep 1m earth bank. Voids forming under buttresses. Recently formed target canker on buttress to S. Bole 3.5m. Stem, principal unions and primary limbs appear to be in good structural condition. Crown full and healthy. Untidy outline. Several major branch loss wounds. Frequent major and significant deadwood. Significant tree but lacks special qualities of Category A.  | No action required at time of survey. | >40       | B1       |
| 1033     | Sycamore        | 17         | 7                | 7   | 5    | 6   | 3 N                               | 3               | 2             | 567            | 406 |     |   |   | M          | G                  | Twin-stemmed at ground level. Abnormal hammer taps. No fungal fruiting bodies observed. Stands on steep 1m earth bank. Very extensive basal decay. Decayed wood exposed, visible from ground level to 3m, soft, probed >350mm at ground level. Other stem, principal unions and primary limbs appear to be in reasonable structural condition. Crown full and healthy. Infrequent significant deadwood.   | Fell prior to commencement.           | <10       | U        |
| 1034     | Holly           | 9.5        | 3.5              | 2.5 | 2    | 4   | 0.5                               | 0               | 3             | 250            | 250 | 200 |   |   | M          | G                  | Three-stemmed at ground level. Included bark unions. Stem and principal unions obscured by HR1018 to 3m and by dense foliage. Partial inspection only. Crown appears to be in satisfactory condition. Otherwise unremarkable.   | No action required at time of survey. | 20+       | B1       |
| 1035     | Ash             | 12.5       | 7.5              | 7   | 6    | 5.5 | 2.5 N                             | 3               | 1             | 600            |     |     |   |   | M          | G                  | Single-stemmed at ground level. HR1018 obscured stem and principal unions to 3.5m. Inspected from E. Partial inspection only. Visible stem, principal unions and primary limbs appear to be in good structural condition. No significant defects. Lacks special qualities of Category A.  | No action required at time of survey. | 20+       | B1       |

| Ref. No. | Species         | Ht.<br>(m) | Crown Spread (m) |    |     |     | Ht. 1 <sup>st</sup><br>Br.<br>(m) | Ht. Can.<br>(m) | Stem<br>Count | Stem Dia. (mm) |     |     |     |   | Life Stage | Phys.<br>Condition | Structural condition & Notes   | Management recommendations   | Ret. Span | QV Grade |
|----------|-----------------|------------|------------------|----|-----|-----|-----------------------------------|-----------------|---------------|----------------|-----|-----|-----|---|------------|--------------------|--|--|-----------|----------|
|          |                 |            | N                | S  | W   | E   |                                   |                 |               | 1/<br>mean     | 2   | 3   | 4   | 5 |            |                    |  |  |           |          |
| 1036     | Sycamore        | 12         | 4                | 4  | 5   | 4   | 4 SW                              | 4               |               | 369            |     |     |     |   | M          | G                  | Single-stemmed at ground level. Arises from N face of bank at 45° then sweeps to upright by 2m. Stem then inclined 15° S. Open cavity at ground level with good woundwood formation. Damaged limb at 6m N. Otherwise in satisfactory condition.  | No action required at time of survey.                                    | 20+       | B1       |
| 1037     | Ash             | 17         | 6.5              | 8  | 6.5 | 7   | 2.5 W                             | 2.5             | 4             | 500            | 500 | 360 | 375 |   | OM         | F                  | Overstood, layered boundary coppice. High density ivy obscured stem and principal unions to 6m. Partial inspection only. Advanced basal decay extending into stems to 5m. No fungal fruiting bodies observed. Crown full but lighter in foliage. Frequent significant deadwood. No symptoms consistent with Ash Dieback Disease observed. Retention beyond 10 years unlikely.  | Fell prior to commencement.  | <10       | U        |
| 1038     | Field maple     | 10         | 5.5              | 5  | 6   | 7   | 1 S                               | 2               | 3             | 600            | 400 | 250 |     |   | OM         | F                  | Off-site. Viewed from 3m N. Partial inspection only. Butt and all stems heavily decayed. Primary limbs damaged. Dense epicormic growth in lower crown. Foliage full and healthy. Retention beyond 10 years unlikely.   | Review land use. Fell prior to commencement if work within 15m proposed. | <10       | U        |
| 1039     | Ash             | 15         | 6.5              | 4  | 6   | 3.5 | 6 S                               | 3               | 1             | 469            |     |     |     |   | M          | F                  | Single-stemmed at ground level. Basal decay. Normal hammer taps. No fungal fruiting bodies observed. Other stem, principal unions and primary limbs appear to be in reasonable structural condition. Frequent significant deadwood. Crown full but foliage light. Early decline suspected.   | No action required at time of survey.                                    | 10+       | C1       |
| 1040     | Ash             | 17         | 7.5              | 8  | 9   | 8   | 3.5 N                             | 2.5             | 4             | 310            | 374 | 752 | 284 |   | OM         | G                  | Overstood, layered boundary coppice. Extensive basal decay extending into stems to 2.5m. Abnormal hammer taps. No fungal fruiting bodies observed. Crown full and healthy. Frequent significant deadwood. No symptoms consistent with Ash Dieback Disease observed. Retention span could be maximised with sympathetic management. Historically important tree at risk in current state. QV grade assessed for tree without management intervention. | No action required at time of survey.                                    | 10+       | C1       |
| 1041     | Ash             | 12         | 1.5              | 2  | 3.5 | 3.5 | 2.5 SW                            | 2               | 2             | 322            | 455 |     |     |   | OM         | F                  | Twin-stemmed at ground level. Extensive basal decay. Abnormal hammer taps. No fungal fruiting bodies observed. Other stem, principal unions and primary limbs appear to be in reasonable structural condition. Crown full and healthy. No symptoms consistent with Ash Dieback Disease observed. Stems truncated at 10m. Interesting tree of historic interest and form but lacks special qualities of Category A.                                   | Fell prior to commencement.  | 10+       | C3       |
| 1042     | White willow    | 14         | 7                | 6  | 11  | 5   | 3.5 W                             | 2.5             | 1             | 762            |     |     |     |   | M          | G                  | Single-stemmed at ground level. Basal decay. Normal hammer taps. No fungal fruiting bodies observed. Remains of collapsed primary limbs to E and W. Frequent significant deadwood. Limb to W at 4m over-extended. Further major limb loss likely.  | No action required at time of survey.                                    | 20+       | B1       |
| 1043     | Pedunculate oak | 14         | 8                | 9  | 8   | 6   | 4 E                               | 1               | 2             | 525            | 700 |     |     |   | M          | G                  | Inspected from N side at 10m. Partial inspection only. Single-stemmed at ground level. Bifurcation at 1.25m. Diameter at breast height measured at 1.75m due to form. Stems in reasonable structural condition. Primary limbs damaged. Hazard beam to S. Several major fractured stubs elsewhere. Frequent significant deadwood. Crown full and healthy. Attractive, significant tree.   | No action required at time of survey.                                    | >40       | B1       |
| 1044     | Ash             | 14         | 4                | 5  | 4   | 5.5 | 3 W                               | 2               | 1             | 346            |     |     |     |   | M          | G                  | Single-stemmed at ground level. Stem, principal unions and primary limbs appear to be in good structural condition. Minor deadwood. Crown full and healthy. No symptoms consistent with Ash Dieback Disease observed. Wire fence becoming engulfed by lower stem. Overall, reasonably attractive but lacks special qualities of Category A.  | No action required at time of survey.                                    | 20+       | B1       |
| 1045     | Pedunculate oak | 17.6       | 8.5              | 10 | 7   | 10  | 3 N                               | 2               | 1             | 800            |     |     |     |   | M          | G                  | Observed from N side at 4m. Partial inspection only. Single-stemmed at ground level. Stem inclined 10° S. Stands at top 1.5m bank. Track to S. Stem, principal unions and primary limbs appear to be in reasonable structural condition. Hazard beam to SE 4m, N 10m. Major deadwood. Frequent significant deadwood. Crown full and healthy. Attractive, significant tree but lacks special qualities of Category A.                                 | No action required at time of survey.                                    | >40       | B1       |

| Ref. No. | Species         | Ht.<br>(m) | Crown Spread (m) |    |     |     | Ht. 1 <sup>st</sup><br>Br.<br>(m) | Ht. Can.<br>(m) | Stem<br>Count | Stem Dia. (mm) |     |   |   |   | Life Stage | Phys.<br>Condition | Structural condition & Notes   | Management recommendations            | Ret. Span | QV Grade |
|----------|-----------------|------------|------------------|----|-----|-----|-----------------------------------|-----------------|---------------|----------------|-----|---|---|---|------------|--------------------|--|---------------------------------------|-----------|----------|
|          |                 |            | N                | S  | W   | E   |                                   |                 |               | 1 /<br>mean    | 2   | 3 | 4 | 5 |            |                    |  |                                       |           |          |
| 1046     | Ash             | 14         | 4                | 6  | 7   | 0   | 3 S                               | 2               | 2             | 280            | 450 |   |   |   | M          | F                  | Observed from N side at 4m. Partial inspection only. Single-stemmed at ground level. Stem inclined 10° S. Stands at top 1.5m bank. Track to S. Bifurcation 0.75m. Stem, principal unions and primary limbs obscured by high density ivy to 10m. Frequent significant deadwood. Crown light. Heavy crown bias W and S after competition.  | No action required at time of survey. | 20+       | B1       |
| 1047     | Ash             | 17         | 2.5              | 10 | 6   | 3   | 10 S                              | 8               | 1             | 400            |     |   |   |   | M          | P                  | Observed from N side at 6m. Partial inspection only. Single-stemmed at ground level. Stem inclined 20° S. Stands at top 2m bank. Track to S. Bifurcation 10m. S primary decayed with open cavity 11m and advanced dieback in crown. E primary truncated at 14m, other limbs damaged. Frequent significant deadwood. Crown light. Heavy bias S after competition.   | Fell prior to commencement.           | <10       | U        |
| 1048     | Ash             | 17         | 6                | 6  | 6   | 6   | 2 N                               | 2               | 1             | 470            |     |   |   |   | M          | G                  | Observed from N side at 2m. Partial inspection only. Single-stemmed at ground level. Normal hammer taps. Stem, principal unions and primary limbs appear to be in reasonable structural condition. Infrequent significant deadwood. Crown full and healthy. No symptoms consistent with Ash Dieback Disease observed.  | No action required at time of survey. | 20+       | B1       |
| 1049     | Ash             | 17         | 5                | 6  | 3.5 | 5   | 2 NE                              | 1.5             | 1             | 504            |     |   |   |   | M          | F                  | Observed from N side at 2m. Partial inspection only. Single-stemmed at ground level. Heavy basal decay with open cavity extending 3m above ground. Abnormal hammer taps. No fungal fruiting bodies observed. Frequent significant deadwood. Crown light. Additional cavity at union with primary limb at 8m. Crown heavily biased E.   | No action required at time of survey. | 10+       | C1       |
| 1050     | Gean            | 15         | 7                | 5  | 5   | 6   | 2.5 NE                            | 3               | 2             | 450            | 500 |   |   |   | M          | F                  | Observed from N side at 2m. Partial inspection only. Twin-stemmed at ground level. Major bough loss x2 S. No fungal fruiting bodies observed. Frequent significant deadwood. Apical dieback. Crown light. Exposed decayed wood on primary limb 10m NW.   | No action required at time of survey. | 10+       | C2       |
| 1051     | Pedunculate oak | 16         | 8                | 6  | 5   | 8.5 | 4 N                               | 2               | 1             | 700            |     |   |   |   | M          | G                  | Observed from N side at 2m. Partial inspection only. Single-stemmed at ground level. Arises with incline S then turns to 15° NE by 2m. No fungal fruiting bodies observed. Stem, principal unions and primary limbs appear to be in reasonable structural condition. Crown full and healthy. Biased N and E. Infrequent significant deadwood.  | No action required at time of survey. | >40       | B1       |
| 1052     | Pedunculate oak | 23         | 10               | 10 | 8.5 | 7   | 5 N                               | 3               | 1             | 780            |     |   |   |   | M          | G                  | Observed from N side at 2m. Partial inspection only. Single-stemmed at ground level. Normal hammer taps. No fungal fruiting bodies observed. Stem, principal unions and primary limbs appear to be in good structural condition. Crown full and healthy. Infrequent significant deadwood. Attractive, symmetrical.   | No action required at time of survey. | >40       | A1       |
| 1053     | Gean            | 14.5       | 8.5              | 4  | 6   | 6.5 | 3 N                               | 2               | 1             | 450            |     |   |   |   | M          | G                  | Observed from N side at 3m. Partial inspection only. Single-stemmed at ground level. No fungal fruiting bodies observed. Stem, principal unions and primary limbs appear to be in reasonable structural condition. Large canker at 3.5m NE. Further cankers in upper crown. Several decayed limb stubs forming socket cavities. Crown reasonable. Infrequent significant deadwood.   | No action required at time of survey. | 20+       | B1       |
| 1054     | Pedunculate oak | 18         | 7                | 14 | 6.5 | 4   | 4.5 S                             | 3               | 1             | 1200           |     |   |   |   | M          | G                  | Single-stemmed at ground level. Site of secondary stem loss with included bark union at ground level NW. Decayed remains still attached. Woundwood forming around canker immediately above at 2-3m, nesting hole in exposed decayed wood. Abnormal hammer taps. Major bottle butt distortion to 4m. Stem inclined 15° S. Primary limb 6m S with crack-like feature. Other stem, principal unions and primary limbs appear to be in reasonable structural condition. Crown full and healthy. No fungal fruiting bodies observed. Expected amount of significant deadwood. Crown heavily biased S. Potential to become future veteran tree but currently lacks special qualities of Category A. RAVEN assessment: consistent with "notable" tree descriptor. | No action required at time of survey. | >40       | B1,3     |



| Ref. No. | Species         | Ht.<br>(m) | Crown Spread (m) |     |     |       | Ht. 1 <sup>st</sup><br>Br.<br>(m) | Ht. Can.<br>(m) | Stem<br>Count | Stem Dia. (mm) |     |     |     |     | Life Stage | Phys.<br>Condition | Structural condition & Notes   | Management recommendations            | Ret. Span | QV Grade |
|----------|-----------------|------------|------------------|-----|-----|-------|-----------------------------------|-----------------|---------------|----------------|-----|-----|-----|-----|------------|--------------------|--|---------------------------------------|-----------|----------|
|          |                 |            | N                | S   | W   | E     |                                   |                 |               | 1 /<br>mean    | 2   | 3   | 4   | 5   |            |                    |  |                                       |           |          |
| 1055     | Pedunculate oak | 18         | 8                | 12  | 9   | 10.5  | 3 N                               | 2               | 1             | 1135           |     |     |     |     | M          | G                  | Single-stemmed at ground level. Normal hammer taps. Region of exposed decayed wood at 2m S. Primary limb at 4m S truncated with signs of superficial decay at end. Stem, principal unions and primary limbs appear to be in reasonable structural condition. Crown full and healthy. No fungal fruiting bodies observed. Major deadwood and frequent significant deadwood but within normal range. Light crown bias S. Some minor defects but overall an attractive tree in good condition. RAVEN assessment: consistent with 'notable' tree descriptor. | No action required at time of survey. | >40       | A1*      |
| 1056     | Sycamore        | 13.5       | 3                | 4.5 | 7   | 7.25  | W                                 | 2               | 3             | 253            | 312 | 315 |     |     | M          | G                  | Twin-stemmed at ground level included bark union. W stem bifurcation 1.25m. Large open decay cavity at ground level W. Abnormal hammer taps. No fungal fruiting bodies observed. Primary limbs inclined 5° E. Crown heavily biased E. Crown full and healthy. Infrequent deadwood.   | No action required at time of survey. | <10       | U        |
| 1057     | Ash             | 12         | 1                | 6   | 4.5 | 6.3   | W                                 | 1.5             | 2             | 450            | 250 |     |     |     | OM         | G                  | Overstood, layered boundary coppice. Basal decay. Abnormal hammer taps. No fungal fruiting bodies observed. Crown full and healthy. Infrequent significant deadwood. No symptoms consistent with Ash Dieback Disease observed. Retention span could be maximised with sympathetic management. Historically important tree at risk in current state. QV grade assessed for tree without management.   | No action required at time of survey. | 20+       | B1,3     |
| 1058     | Ash             | 16         | 2                | 7   | 2.5 | 6.125 | S                                 | 1.25            | 1             | 490            |     |     |     |     | M          | G                  | Form suggestive of overstood layered boundary coppice. Stem almost horizontal to 1m then turns through elbow to become upright. Exposed desiccated wood on elbow with good woundwood formation. Normal hammer taps. No fungal fruiting bodies observed. Remaining stem, principal unions and primary limbs appear to be in good structural condition. Crown full and healthy. No symptoms consistent with Ash Dieback Disease observed.  | No action required at time of survey. | 20+       | B1,3     |
| 1059     | Ash             | 12         | 4                | 5.5 | 4   | 5.2   | E                                 | 2               | 1             | 578            |     |     |     |     | M          | G                  | Single-stemmed at ground level. Large open cavity at ground level to bole at 2m. Stem truncated at bole. Crown consists of regrowth. May be consistent with lightning strike damage. Size insufficient for veteran status. Crown size appropriate to stem. May be retained in current state.   | No action required at time of survey. | 20+       | B1       |
| 1060     | Hawthorn        | 4          | 1                | 1   | 1   | 1.0   | W                                 | 0.5             | 4             | 60             | 30  | 30  | 30  |     | SM         | G                  | Unremarkable small tree with no significant defects.   | No action required at time of survey. | >40       | C1       |
| 1061     | Pedunculate oak | 12         | 7                | 8   | 9.5 | 4.5   | 3.5 S                             | 1.75            | 1             | 785            |     |     |     |     | M          | F                  | Single-stemmed at ground level. Normal hammer taps. No fungal fruiting bodies observed. Buttresses stiling. Stem, principal unions and primary limbs appear to be in good structural condition. Peripheral dieback. Infrequent significant deadwood. Early decline. No evidence of retrenchment. Striking landscape feature.   | No action required at time of survey. | 20+       | B2       |
| 1062     | Pedunculate oak | 14         | 7                | 7   | 6.5 | 8.5   | 4 W                               | 3.5             | 1             | 900            |     |     |     |     | M          | F                  | Single-stemmed at ground level. Stands at top 0.75m bank above ditch. Stem and principal unions obscured by HR1023 to 4m. Partial inspection only. Several major limbs to S / SE removed. Crown diminished with gaps and wind pockets. Early apical dieback. Frequent significant deadwood. Only tree in hedge - significant landscape contribution.   | No action required at time of survey. | 20+       | B1       |
| 1063     | Sessile oak     | 14         | 7.5              | 11  | 10  | 9.2   | S                                 | 5               | 1             | 850            |     |     |     |     | M          | G                  | Single-stemmed at ground level. Normal hammer taps. No fungal fruiting bodies observed. Stem, principal unions and primary limbs appear to be in good structural condition. Occasional major deadwood. Significant deadwood within normal range. No significant defects. Attractive significant tree.  | No action required at time of survey. | >40       | A1       |
| 1064     | Gean            | 13         | 4                | 3   | 3   | 5.2   | E                                 | 1.5             | 5             | 400            | 200 | 330 | 260 | 175 | M          | F                  | Overstood boundary coppice arising from S-facing 2m earth bank adjacent to private road (occasional traffic at 40mph observed). May be off-site. Stool in poor structural condition. Basal decay, included bark unions. Stem to N of diameter=200mm dead, heavily decayed. Stem to S of diameter=260mm decayed and inclined 35° towards road. Wire mesh fence attached to stem. Collapse during a significant weather event foreseeable. <b>THREATS 8x15x6=720; 13W.</b>   | Fell within 13 weeks.                 | <10       | U        |

| Ref. No. | Species         | Ht.<br>(m) | Crown Spread (m) |    |     |     | Ht. 1 <sup>st</sup><br>Br.<br>(m) | Ht. Can.<br>(m) | Stem<br>Count | Stem Dia. (mm) |     |     |   |   | Life Stage | Phys.<br>Condition | Structural condition & Notes | Management recommendations  | Ret. Span                             | QV Grade |       |
|----------|-----------------|------------|------------------|----|-----|-----|-----------------------------------|-----------------|---------------|----------------|-----|-----|---|---|------------|--------------------|------------------------------|---|---------------------------------------|----------|-------|
|          |                 |            | N                | S  | W   | E   |                                   |                 |               | 1/<br>mean     | 2   | 3   | 4 | 5 |            |                    |                              |   |                                       |          |       |
| 1065     | Pedunculate oak | 14         | 6                | 7  | 5   | 6.5 | 2.5 NE                            | 1.5             | 1             | 400            |     |     |   |   |            | M                  | G                            | Arising from S-facing 1.5m earth bank adjacent to private road (occasional traffic at 40mph observed). May be off-site. Viewed from 3m N. Partial inspection only. Stem, principal unions and primary limbs appear to be in reasonable structural condition. Lower crown W absent to 6m creating crown bias. Infrequent significant deadwood. Lacks special qualities of Category A.  | No action required at time of survey. | >40      | B1    |
| 1066     | Ash             | 12         | 7                | 7  | 5   | 5.5 | 3 W                               | 4               | 3             | 300            | 250 | 300 |   |   |            | M                  | G                            | Overstood boundary coppice arising from S-facing 1m earth bank adjacent to private road (occasional traffic at 40mph observed). May be off-site. Inspected from 3m N. Obscured by HR1027 to 4m. Partial inspection only. Single-stemmed at ground level. Bole 1.5m. Diameter at breast height measured at 1.75m due to form. Stem, principal unions and primary limbs appear to be in reasonable structural condition. Crown full and healthy. No symptoms consistent with Ash Dieback Disease observed. Lacks special qualities of Category A. | No action required at time of survey. | 20+      | B1    |
| 1067     | Ash             | 11         | 8                | 7  | 7   | 7   | 3                                 | 3               | 8             | 260            |     |     |   |   |            | M                  | G                            | Overstood boundary coppice arising from S-facing 0.5m earth bank adjacent to private road (occasional traffic at 40mph observed). May be off-site. Inspected from N. Obscured by HR1027 to 4m. Partial inspection only. Stem, principal unions and primary limbs appear to be in good structural condition. Crown full and healthy. No symptoms consistent with Ash Dieback Disease observed. Unions open and well-formed. Void space under butt of habitat value. Significant tree, crown appropriately sized and in good condition.           | No action required at time of survey. | >40      | A1,3  |
| 1068     | Field maple     | 10         | 2                | 4  | 5   | 3   | 0                                 | 0               | 8             | 125            |     |     |   |   |            | M                  | G                            | Hedge plant outgrown into tree, Crown consists of regrowth from pollard bole at 1.5m. May be off-site. Inspected from from N. HR1027 obscured stem and principal unions to 5m. Partial inspection only. Overhead wire passes through crown. Unremarkable. Low merit.  | No action required at time of survey. | 20+      | C2    |
| 1069     | Pedunculate oak | 18         | 11               | 11 | 9   | 9   | 3 N                               | 3               | 1             | 1201           |     |     |   |   |            | M                  | G                            | Single-stemmed at ground level. Bole 3m. Normal hammer taps. No fungal fruiting bodies observed. Stem, principal unions and primary limbs appear to be in good structural condition. Infrequent significant deadwood. Crown full and healthy. No significant defects. RAVEN assessment: consistent with "notable" tree descriptor.  | No action required at time of survey. | >40      | A1*   |
| 1070     | Pedunculate oak | 9          | 6.5              | 6  | 5.5 | 6.5 | 2 E                               | 3               | 1             | 1400           |     |     |   |   |            | OM                 | G                            | Single-stemmed at ground level. Bole 3m. Abnormal hammer taps. No fungal fruiting bodies observed. Stem hollow with small cavity openings ground level E and W. Stem has aged appearance. Form indicative of an old pollard. Stem, principal unions and primary limbs appear to be in good structural condition. Infrequent significant deadwood. Crown full and healthy. RAVEN assessment: features consistent with "veteran pollard" descriptor.  | No action required at time of survey. | >40      | A1,3* |
| 1071     | White willow    | 14         | 7                | 12 | 8   | 8   | 0                                 | 0               | 1             | 1700           |     |     |   |   |            | OM                 | G                            | Single standing stem remaining of collapsed veteran willow. Obscured by dense foliage. Other stems layering on ground. Butt extensively decayed and split open to reveal heartwood. Large amounts of major deadwood on ground, some lying in seasonally wet ditches. Prolific new growth established on butt. RAVEN: features consistent with "veteran" tree descriptor.  | No action required at time of survey. | 20+      | A3*   |
| 1072     | Pedunculate oak | 15         | 6.5              | 8  | 7   | 6.5 | 4 E                               | 3               | 1             | 750            |     |     |   |   |            | M                  | G                            | May be off-site. Single-stemmed at ground level. High density ivy obscured stem and principal unions to 12m. HR1034 obscured stem and principal unions to stem to 3m. Partial inspection only. Frequent major and significant deadwood. Crown full and healthy. Significant tree but lacks special qualities of Category A.   | No action required at time of survey. | >40      | B1    |
| 1073     | Ash             | 11         | 4.5              | 5  | 5   | 5   | 3 W                               | 4               | 2             | 320            | 350 |     |   |   |            | M                  | F                            | May be off-site. Twin-stemmed at ground level. Inspected from 2m N. Partial inspection only. Two large limbs removed N side to accommodate fence. Frequent minor deadwood. Crown hollowing. Ash Dieback Disease suspected.  | No action required at time of survey. | <10      | U     |

| Ref. No. | Species         | Ht.<br>(m) | Crown Spread (m) |     |      |     | Ht. 1 <sup>st</sup> Br.<br>(m) | Ht. Can.<br>(m) | Stem Count | Stem Dia. (mm) |     |     |     |   | Life Stage | Phys. Condition | Structural condition & Notes | Management recommendations   | Ret. Span                             | QV Grade |       |
|----------|-----------------|------------|------------------|-----|------|-----|--------------------------------|-----------------|------------|----------------|-----|-----|-----|---|------------|-----------------|------------------------------|--|---------------------------------------|----------|-------|
|          |                 |            | N                | S   | W    | E   |                                |                 |            | 1 / mean       | 2   | 3   | 4   | 5 |            |                 |                              |  |                                       |          |       |
| 1074     | Pedunculate oak | 12         | 6.5              | 8   | 7    | 7   | 2.5 N                          | 2               | 1          | 1100           |     |     |     |   |            | M               | G                            | Single-stemmed at ground level. Central stem rises to 9m. Normal hammer taps. No fungal fruiting bodies observed. Stem has aged appearance. Not believed to be an old pollard. Stem, principal unions and primary limbs appear to be in good structural condition. Frequent significant deadwood, peripheral dieback in E crown. Remaining crown full and healthy. Symmetrical. RAVEN assessment: consistent with "notable, non-veteran" descriptor. | No action required at time of survey. | >40      | A1*   |
| 1075     | Pedunculate oak | 16.5       | 8                | 9.5 | 10   | 9   | 5 N                            | 2               | 1          | 1100           |     |     |     |   |            | M               | G                            | Single-stemmed at ground level. Central stem rises to 12m. Normal hammer taps. No fungal fruiting bodies observed. Stem has aged appearance. Open grown form. Stem, principal unions and primary limbs appear to be in good structural condition. Infrequent significant deadwood. Crown full and healthy. Symmetrical. RAVEN assessment: consistent with "notable, non-veteran" descriptor.   | No action required at time of survey. | >40      | A1*   |
| 1076     | Ash             | 18         | 4                | 6   | 7    | 6   | 3 W                            | 4               | 1          | 800            |     |     |     |   |            | M               | F                            | Off-site. Inspected from 7m N. High density ivy obscured stem and principal unions to 10m. Partial inspection only. Major bough lost at 4m SW. Prolific mast. Foliage light. Frequent minor deadwood but no symptoms consistent with Ash Dieback Disease observed. Significant tree but retention in doubt.  | No action required at time of survey. | 10+      | C1    |
| 1077     | Alder           | 17.5       | 9                | 12  | 10.5 | 9   | 0.5                            | 1               | 4          | 400            | 600 | 600 | 800 |   |            | M               | G                            | Off-site. Inspected from 7m N. Dense foliage obscured stem and principal unions to 4m. Partial inspection only. Visible stem, principal unions and primary limbs appear to be in reasonable structural condition. Crown full and healthy. Multi-stemmed coppice. Stool may be 3.5m diameter. A very impressive, historically important landscape feature. RAVEN assessment: features consistent with "notable" tree descriptor.                      | No action required at time of survey. | >40      | A1,3* |
| 1078     | Ash             | 13         | 1                | 4   | 6.5  | 2   | 1 N                            | 5               | 1          | 235            |     |     |     |   |            | EM              | P                            | Poor form. Dieback. Retention beyond 10 years unlikely.  | No action required at time of survey. | <10      | U     |
| 1079     | Pedunculate oak | 15         | 10.5             | 12  | 7.5  | 6.5 | 2 N                            | 6               | 1          | 1100           |     |     |     |   |            | M               | G                            | Off-site. Inspected from 8m N. Partial inspection only. Single-stemmed at ground level. Bifurcation at 3m. Regions of bark loss on lower stem. Primary bough S with long linear region of exposed wood to 10m which may be consistent with a lightning strike. QV grade downgraded from Category A. Open grown form with full and healthy crown. Frequent significant deadwood. RAVEN assessment: consistent with "notable, non-veteran" descriptor. | No action required at time of survey. | >40      | B1    |
| 1080     | Ash             | 14         | 6                | 6   | 6    | 5   | 2.5 S                          | 3               | 3          | 350            | 200 | 150 |     |   |            | M               | G                            | Off-site. Crown consists of regrowth from an old layered boundary coppice stool in HR1039. Stem and principal unions obscured by foliage and HR1039 to 3m. Inspected from N. Partial inspection only. Visible stem, principal unions and primary limbs appear to be in reasonable structural condition. Crown full and healthy. Small size but originating from old stool.   | No action required at time of survey. | 20+      | B1,3  |
| 1081     | Hawthorn        | 5          | 3                | 3   | 4    | 3   | 0.5                            | 0               | 1          | 250            |     |     |     |   |            | M               | G                            | Off-site. Stem and principal unions obscured by hedgerow to 3m. Inspected from 5m N. Partial inspection only. Unremarkable. Low merit.   | No action required at time of survey. | 20+      | C1    |
| 1082     | Gean            | 8          | 5                | 5   | 3    | 5.5 | 1.75 E                         | 2.5             | 3          | 300            | 150 | 200 |     |   |            | M               | G                            | Off-site. Stem and principal unions obscured by hedgerow to 3m. Inspected from 3m N. Partial inspection only. Three-stemmed at ground level with included bark unions. Upright form with many secondary limbs attached with included bark unions. Minor limb damage in crown. Frequent minor deadwood. Large untidy nest in W crown. Crown full and healthy. Forms aerodynamic pair with tree 1083. Valuable ecological food source.                 | No action required at time of survey. | 20+      | B1    |
| 1083     | Sycamore        | 8          | 4                | 6   | 5    | 1.5 | 3 SW                           | 3               | 2          | 225            | 250 |     |     |   |            | EM              | G                            | Off-site. Stem and principal unions obscured by hedgerow to 3m. Inspected from 3m N. Partial inspection only. Twin-stemmed at ground level with non-included bark unions. Natural brace at 1.5m. Infrequent minor deadwood. Crown full and healthy. Forms aerodynamic pair with tree 1082. Some future potential.  | No action required at time of survey. | >40      | B1    |
| 1084     | Goat willow     | 6.5        | 4                | 7   | 6.5  | 5   | 1 W                            | 1.75            | 1          | 372            |     |     |     |   |            | M               | G                            | Single-stemmed at ground level. Stout butt. Normal hammer taps. No fungal fruiting bodies observed. Bole 2m. Primary limb E damaged. Other stem, principal unions and primary limbs appear to be in reasonable structural condition. Grove of suckering stems to E (dia=125mm). Reasonable contribution to landscape.  | No action required at time of survey. | 20+      | B1    |

| Ref. No. | Species         | Ht. (m) | Crown Spread (m) |     |   |     | Ht. 1 <sup>st</sup> Br. (m) | Ht. Can. (m) | Stem Count | Stem Dia. (mm) |     |     |     |     | Life Stage | Phys. Condition | Structural condition & Notes  | Management recommendations                    | Ret. Span | QV Grade |
|----------|-----------------|---------|------------------|-----|---|-----|-----------------------------|--------------|------------|----------------|-----|-----|-----|-----|------------|-----------------|---|---|-----------|----------|
|          |                 |         | N                | S   | W | E   |                             |              |            | 1 / mean       | 2   | 3   | 4   | 5   |            |                 |   |   |           |          |
| 1085     | Hawthorn        | 6       | 1.5              | 1.5 | 2 | 2   | E                           | 2            | 1          | 150            |     |     |     |     | EM         | G               | Unremarkable. Low merit.  | No action required at time of survey.         | 20+       | C1       |
| 1086     | Pedunculate oak | 10.5    | 6                | 8   | 7 | 7   | 2.5 SW                      | 1.75         | 1          | 685            |     |     |     |     | M          | G               | Single-stemmed at ground level. Normal hammer taps. No fungal fruiting bodies observed. Stem, principal unions and primary limbs appear to be in good structural condition. Occasional significant deadwood within normal range. No significant defects. Attractive tree. Definite landscape asset. Lacks special qualities of Category A.  | No action required at time of survey.         | 20+       | B1       |
| 1087     | Ash             | 10      | 3.5              | 5   | 5 | 5.5 | 1.5 S                       | 2.5          | 4          | 337            | 185 | 143 | 195 |     | OM         | F               | Overstood, layered boundary coppice. Superficial basal decay. Normal hammer taps. No fungal fruiting bodies observed. Minor deadwood. No symptoms consistent with Ash Dieback Disease observed. Retention span could be maximised with sympathetic management. Of some historic significance.   | No action required at time of survey.         | 20+       | B1,3     |
| 1088     | Sessile oak     | 12      | 8                | 9   | 8 | 7.5 | 3 NW                        | 3            | 1          | 570            |     |     |     |     | M          | G               | Single-stemmed at ground level. Normal hammer taps. No fungal fruiting bodies observed. Bifurcation at 2.5m with included bark union with stable geometry. Other stem, principal unions and primary limbs appear to be in good structural condition. Crown full and healthy. Infrequent minor deadwood. No significant defects. Potential to become Category A tree in future. Currently lacks special qualities of Category A. Overhead wire through E crown.  | No action required at time of survey.         | >40       | B1       |
| 1089     | Ash             | 11      | 4                | 3   | 7 | 1   |                             | 4            | 1          | 550            |     |     |     |     | M          | P               | Off-site. Stem and principal unions obscured by HR1040 to 4m. Inspected from 5m E. Partial inspection only. Extensive dieback with loss of several large limbs. Brackets of saprophytic fungus Daldinia concentrica. Overhead wire below.   | Remove dead limbs to E prior to commencement. | <10       | U        |
| 1090     | Ash             | 13      | 6                | 7   | 8 | 5.5 | 1.5 E                       |              | 5          | 305            | 185 | 183 | 230 | 100 | OM         | G               | Overstood layered boundary coppice. Normal hammer taps. No fungal fruiting bodies observed. Minor deadwood. No symptoms consistent with Ash Dieback Disease observed. Retention span could be maximised with sympathetic management. Of some historic significance. Overhead wire through E crown.  | No action required at time of survey.         | 20+       | B1,3     |
| 1091     | Pedunculate oak | 13      | 6                | 8   | 8 | 6.5 | 2 W                         | 2            | 1          | 680            |     |     |     |     | M          | G               | Single-stemmed at ground level. Arises 45° SE, then sweeps upright by 2m. Normal hammer taps. No fungal fruiting bodies observed. Stem, principal unions and primary limbs appear to be in good structural condition. Drawn up form. Overhead wire and pole immediately adjacent. Frequent significant deadwood. Crown full and healthy. Attractive tree. Definite landscape asset. Clearly visible from public highway. Lacks special qualities of Category A. | No action required at time of survey.         | >40       | B1       |

Table 3.2.: Tree survey data schedule for tree groups

| Ref. No. | Species                  | Tree Count | Ht. (m) | MRCs (m) | Ht. 1 <sup>st</sup> Br. (m) | Ht. Can. (m) | Specimen Stem Dia. (mm) | Life Stage | Phys. Condition | Structural condition & Notes  | Management recommendations            | Ret. Span<br><small>&lt;10, 10+ 20+, &gt;40</small> | QV Grade<br><small>U-A-B-C</small> |
|----------|--------------------------|------------|---------|----------|-----------------------------|--------------|-------------------------|------------|-----------------|---|---------------------------------------|---|------------------------------------|
| TG1001   | Ash                      | 2          | 12.4    | 3        | 5 NE                        | 6            | 240                     | EM         | F               | Unremarkable. Off-site on boundary line. Wire fence partially engulfed in lower stem. S tree of pair consists of multi-stemmed upright regrowth from old decayed stump, heavily pruned. Reasonable structural condition but long term retention in doubt. No symptoms consistent with Ash Dieback Disease observed.   | No action required at time of survey. | 10+   | C1                                 |
| TG1002   | Ash                      | 3          | 16.5    | 5        | 3 S                         | 2.5          | 350                     | M          | G               | Within WG1001. Off-site. Behind fence. Dense vegetation obscured stem and primary unions to 10m. Inspected from 2m S. Partial inspection only. Stands on steep stream bank. Appears to be in good structural condition. No significant defects. Lacks special qualities of Category A.  | No action required at time of survey. | 20+   | B1                                 |
| TG1003   | Hazel                    | 3          | 3.5     | 2        | 0                           | 0.5          | 150                     | EM         | G               | Isolated section of hedge plants. Unremarkable. No significant defects.   | No action required at time of survey. | 20+   | C1                                 |
| TG1004   | Ash                      | 3          | 10      | 3        | 2.5 NE                      | 2            | 235                     | EM         | G               | Group within HR1007. Moderate density ivy obscured stem and principal unions to 7m. Partial inspection only. Unremarkable. Visible stem, principal unions and primary limbs in reasonable structural condition. No symptoms consistent with Ash Dieback Disease observed.   | No action required at time of survey. | 20+   | B1                                 |
| TG1005   | Ash x 4, Field maple x 1 | 4          | 10      | 3        | 2.5 N                       | 1.5          | 200                     | EM         | G               | Group within HR1007. Moderate density ivy obscured stem and principal unions to 7m. Partial inspection only. Unremarkable. Visible stem, principal unions and primary limbs in reasonable structural condition. No symptoms consistent with Ash Dieback Disease observed.   | No action required at time of survey. | 20+   | B1                                 |
| TG1006   | Ash                      | 12         | 12      | 5        | 2                           | 4            | 685                     | M          | G               | Co-located with HR1016. Overstood, layered boundary coppice outgrown into trees. Most stools affected by basal decay to varying extents. Occasional stems heavily decayed. Otherwise stem, principal unions and primary limbs in reasonable structural condition. Crown full and healthy. No symptoms consistent with Ash Dieback Disease observed. Interesting group of historic interest and form but lacks special qualities of Category A. Retention span could be maximised with sympathetic management. | No action required at time of survey. | 20+   | B3                                 |
| TG1007   | Field maple              | 3          | 15      | 5        | 1.5                         | 2            | 465                     | M          | G               | Overstood, layered boundary coppice outgrown into trees. Most stools affected by basal decay to varying extents. Otherwise stem, principal unions and primary limbs in reasonable structural condition. Crown full and healthy. Interesting group of historic interest and form but lacks special qualities of Category A. Retention span could be maximised with sympathetic management. Together with other trees in vicinity forms interesting natural feature.  | No action required at time of survey. | 20+   | B3                                 |

| Ref. No. | Species                                 | Tree Count | Ht. (m) | M RCS (m) | Ht. 1 <sup>st</sup> Br. (m) | Ht. Can. (m) | Specimen Stem Dia. (mm) | Life Stage | Phys. Condition | Structural condition & Notes  | Management recommendations            | Ret. Span<br><small>&lt;10, 10+ 20+, &gt;40</small> | QV Grade<br><small>U-A-B-C</small> |
|----------|---|------------|---------|-----------|-----------------------------|--------------|-------------------------|------------|-----------------|---|---------------------------------------|---|------------------------------------|
| TG1008   | Ash                                     | 2          | 17      | 5         | 4                           | 6            | 463                     | M          | G               | Co-located with TG1010. Pair of twin-stemmed specimens. Bifurcation at ground level, W tree of pair with included bark union. Otherwise stem, principal unions and primary limbs in reasonable structural condition. Frequent significant deadwood. Crown full and healthy. No symptoms consistent with Ash Dieback Disease observed. Retention span could be maximised with sympathetic management. Together with other trees in vicinity forms interesting natural feature.   | No action required at time of survey. | 20+   | B1                                 |
| TG1009   | Ash                                     | 4          | 17      | 5         | 1.5                         | 2            | 420                     | M          | G               | Co-located with TG1010. Overstood, layered boundary coppice outgrown into trees. Stem, principal unions and primary limbs in reasonable structural condition. Crown full and healthy. No symptoms consistent with Ash Dieback Disease observed. Interesting group of historic interest and form but lacks special qualities of Category A. Retention span could be maximised with sympathetic management. Together with other trees in vicinity forms interesting natural feature.  | No action required at time of survey. | 20+   | B3                                 |
| TG1010   | Hazel, hawthorn, field maple, field elm | 30         | 10      | 4         | 0.5                         | 1            | 350                     | M          | G               | Co-located with TG1008 & 1009. Form suggests former hedgerow planting now outgrown into trees. Stem, principal unions and primary limbs in reasonable structural condition. Frequent significant deadwood. Retention span could be maximised with sympathetic management. Together with other trees in vicinity forms interesting natural feature.  | No action required at time of survey. | 20+   | B2                                 |
| TG1011   | Ash                                     | 6          | 16      | 6         | 1.5                         | 2            | 480                     | M          | G               | Co-located with TG1014. Overstood, layered boundary coppice outgrown into trees. Basal decay affecting several trees. Normal hammer taps. No fungal fruiting bodies observed. Otherwise stem, principal unions and primary limbs in reasonable structural condition. Crown full and healthy. No symptoms consistent with Ash Dieback Disease observed. Interesting group of historic interest and form but lacks special qualities of Category A. Retention span could be maximised with sympathetic management. Together with other trees in vicinity forms interesting natural feature.       | No action required at time of survey. | 20+   | B3                                 |
| TG1012   | Ash                                     | 2          | 16      | 8         | 5 NE                        | 2            | 600                     | M          | G               | Co-located with TG1014. Overstood, layered boundary coppice outgrown into trees. Normal hammer taps. No fungal fruiting bodies observed. Both with major included bark union at 2m. Otherwise stem, principal unions and primary limbs in reasonable structural condition. Crown full and healthy. No symptoms consistent with Ash Dieback Disease observed. Interesting group of historic interest and form but lacks special qualities of Category A. Retention span could be maximised with sympathetic management. Together with other trees in vicinity forms interesting natural feature. | No action required at time of survey. | 20+   | B3                                 |

| Ref. No. | Species                      | Tree Count | Ht. (m) | M RCS (m) | Ht. 1 <sup>st</sup> Br. (m) | Ht. Can. (m) | Specimen Stem Dia. (mm) | Life Stage | Phys. Condition | Structural condition & Notes   | Management recommendations            | Ret. Span<br><small>&lt;10, 10+ 20+, &gt;40</small> | QV Grade<br><small>U-A-B-C</small> |
|----------|------------------------------|------------|---------|-----------|-----------------------------|--------------|-------------------------|------------|-----------------|--|---------------------------------------|---|------------------------------------|
| TG1013   | Ash                          | 3          | 16      | 6.5       | 3 SW                        | 1.5          | 550                     | M          | G               | Co-located with TG1014. Overstood, layered boundary coppice outgrown into trees. Normal hammer taps. No fungal fruiting bodies observed. Stem, principal unions and primary limbs in reasonable structural condition. Crown full and healthy. No symptoms consistent with Ash Dieback Disease observed. Interesting group of historic interest and form but lacks special qualities of Category A. Retention span could be maximised with sympathetic management. Together with other trees in vicinity forms interesting natural feature.                         | No action required at time of survey. | 20+   | B3                                 |
| TG1014   | Hawthorn, hazel, field maple | 26         | 8       | 3.5       | 0.5                         | 1            | 350                     | M          | G               | Co-located with TG1011 - 1013. Form suggests former hedgerow planting now outgrown into trees. Stem, principal unions and primary limbs in reasonable structural condition. Frequent significant deadwood. Retention span could be maximised with sympathetic management. Together with other trees in vicinity forms interesting natural feature.   | No action required at time of survey. | 20+   | B2                                 |
| TG1015   | Ash                          | 2          | 14      | 5         | 2.5 SW                      | 2            | 550                     | M          | F               | Off-site. Partial inspection only. Overstood, layered boundary coppice outgrown into trees. Extensive basal decay. No fungal fruiting bodies observed. Otherwise stem, principal unions and primary limbs in reasonable structural condition. Crown full and healthy. No symptoms consistent with Ash Dieback Disease observed. Interesting group of historic interest and form but lacks special qualities of Category A. Retention span could be maximised with sympathetic management. Together with other trees in vicinity forms interesting natural feature. | No action required at time of survey. | 10+   | C3                                 |
| TG1016   | Ash                          | 2          | 14      | 7         | 2.5                         | 5            | 795                     | OM         | p               | Overstood boundary coppice outgrown into trees. Normal hammer taps. No fungal fruiting bodies observed. Otherwise stem, principal unions and primary limbs in reasonable structural condition. Crown light. Symptoms of Ash Dieback Disease present. E tree of pair with apical dieback and epicormic growth. Long term retention in doubt.  | No action required at time of survey. | <10   | U                                  |
| TG1017   | Gean                         | 2          | 8       | 5         | 1.5                         | 2            | 214                     | EM         | G               | Pair of unremarkable trees. Degraded structural condition due to crossing, fractured and cracked limbs and bark damage.  | No action required at time of survey. | 10+   | C1                                 |
| TG1018   | Ash                          | 6          | 20      | 6         | 3.5 W                       | 2            | 398                     | M          | P               | Poor form. Stems generally in reasonable structural condition. Crown in poor health with advanced dieback. Lack of hollowing out and epicormic growth associated with Ash Dieback Disease. Poor root function suspected. Signs of heavy livestock foot traffic below.  | No action required at time of survey. | <10   | U                                  |
| TG1019   | Silver birch                 | 4          | 7.5     | 4         | 3 S                         | 2            | 148                     | EM         | F               | Unremarkable ornamental planting. Generally in poor form. Growth poor. Stems inclined in various directions. Low merit.  | No action required at time of survey. | 10+   | C1                                 |
| TG1020   | Hawthorn                     | 4          | 6       | 4         | 0.5                         | 1            | 250                     | M          | G               | Understorey to TG1018. Unremarkable.   | No action required at time of survey. | 20+   | B1                                 |
| TG1021   | Hazel, holly x 2             | 3          | 7.5     | 3         | 0.5                         | 0.25         | 285                     | M          | G               | Understorey to T1058. Unremarkable.  | No action required at time of survey. | 20+   | B1                                 |

| Ref. No. | Species                   | Tree Count | Ht. (m) | M RCS (m) | Ht. 1 <sup>st</sup> Br. (m) | Ht. Can. (m) | Specimen Stem Dia. (mm) | Life Stage | Phys. Condition | Structural condition & Notes   | Management recommendations            | Ret. Span<br><small>&lt;10, 10+ 20+, &gt;40</small> | QV Grade<br><small>U-A-B-C</small> |
|----------|---------------------------|------------|---------|-----------|-----------------------------|--------------|-------------------------|------------|-----------------|--|---------------------------------------|---|------------------------------------|
| TG1022   | Sessile oak               | 2          | 20      | 11        | 2 S                         | 1.5          | 840                     | M          | G               | Behind barbed wire fence. Inspected from 4m E. Partial inspection only. Trees form aerodynamic pair. S tree of pair heavily biased to S with evidence of stem decay and natural brace at 6m. Otherwise stem, principal unions and primary limbs in reasonable structural condition. N tree stem, principal unions and primary limbs in good structural condition. Infrequent significant deadwood. Crown full and healthy. No fungal fruiting bodies observed. Normal hammer taps. | No action required at time of survey. | 20+   | B1                                 |
| TG1023   | Goat willow               | 3          | 8       | 5         | 0.5                         | 0            | 525                     | M          | G               | Adjacent to waterlogged area. Multi-stemmed. Several damaged, decayed stems. Appropriate natural feature for setting. Low merit.   | No action required at time of survey. | 20+   | C1                                 |
| TG1024   | Goat willow               | 11         | 8       | 3         | 0.5                         | 0            | 250                     | M          | G               | Adjacent to waterlogged area. Unremarkable. Appropriate natural feature for setting. Low merit.  | No action required at time of survey. | 20+   | C1                                 |
| TG1025   | Hazel                     | 3          | 7       | 3         | 0                           | 0            | 350                     | M          | G               | Unremarkable. Low merit.   | No action required at time of survey. | 20+   | C1                                 |
| TG1026   | Alder                     | 4          | 18      | 6         | 1.25                        | 1.5          | 625                     | M          | G               | Group of four large trees surrounding waterlogged area at intersection of ditch network. Single-stemmed at ground level except specimen next to gateway which is three-stemmed with engulfed wire fence on lower stem. W specimen inclined 30° E, possibly partially windthrown but now stabilised. Stem, principal unions and primary limbs in reasonable structural condition. Crown full and healthy. Minor deadwood. Significant landscape feature, appropriate to setting.    | No action required at time of survey. | >40   | B1,2                               |
| TG1027   | Alder, elder, goat willow | 6          | 7       | 3         | 0                           | 0            | 200                     | EM         | G               | Unremarkable group in riparian zone and forming understorey to high canopy trees. Cover and food source. Low merit.  | No action required at time of survey. | 20+   | C2                                 |
| TG1028   | Hazel, hawthorn           | 2          | 7       | 2.5       | 0                           | 3            | 190                     | M          | G               | Unremarkable. Low merit.   | No action required at time of survey. | 20+   | C1                                 |
| TG1029   | Ash                       | 2          | 10      | 5         | 2                           | 3            | 475                     | OM         | F               | Overstood, layered boundary coppice. Superficial basal decay. Normal hammer taps. No fungal fruiting bodies observed. Minor deadwood. No symptoms consistent with Ash Dieback Disease observed. Retention span could be maximised with sympathetic management. Of some historic significance.  | No action required at time of survey. | 20+   | B1,3                               |
| TG1030   | Ash x 2, Pedunculate oak  | 3          | 12      | 4         | 2                           | 3            | 330                     | EM         | G               | Unremarkable. Oak suppressed by ash. Ash stem damaged at 6m N. Frequent minor deadwood. Requires thinning if group to be retained. Overhead wire and pole immediately adjacent. Minor contribution to landscape.   | No action required at time of survey. | 20+   | B1                                 |



**Table 3.1: Tree survey data schedule for woodland groups**

| Ref. No. | Species  | Area<br>(m <sup>2</sup> ) | Ht.<br>(m) | MRCs<br>(m) | Ht. 1 <sup>st</sup> Br.<br>(m) | Ht. Can.<br>(m) | Specimen<br>Stem Dia.<br>(mm) | Specimen<br>RPA Rad.<br>(m) | Specimen<br>RPA Area<br>(m <sup>2</sup> ) | Life Stage | Phys.<br>Condition | Structural condition & Notes  | Management recommendations            | Ret. Span | QV Grade |
|----------|--|---------------------------|------------|-------------|--------------------------------|-----------------|-------------------------------|-----------------------------|---|------------|--------------------|---|---------------------------------------|-----------|----------|
| WG1001   | Ash 5%, hazel 35%, goat willow 10%, alder 5%, elder 1%, hawthorn 43%, gean 1%, wych elm 1%, field maple 1%, blackthorn 3%, white willow 1% | 2889                      | 10         | 4           | 0                              | 0               | 350                           | 4.20                        | 55  | M          | G                  | Species-rich riparian woodland behind wire mesh fence and believed to be off-site. Trees on S bank of watercourse considered. Considerable value as food source, habitat and wildlife corridor. Trees of moderate value individually but combine to create high value feature. Branches generally encroach little into development area.  | No action required at time of survey. | >40       | B2       |
| WG1002   | Alder 55%, white willow 5%, hazel 15%, hawthorn 15%, elder 10%   | 2481                      | 18         | 6           | 1.5                            | 2               | 1050                          | 12.60                       | 499                                       | M          | G                  | Riparian woodland on banks of pond / waterlogged area / stream. Trees on S bank of watercourse considered. Alders multi-stemmed and appear to be overstood coppice. S stems removed recently resulting in downgrade from Category A. Diameter at breast height recorded for alder stools, others considerably smaller - RPA dominated by alders. Other species form understorey to high canopy trees. Considerable value as habitat and wildlife corridor. Trees of moderate value individually but combine to create high value feature. Branches generally encroach little into development area. | No action required at time of survey. | >40       | B2       |
| WG1003   | Ash 10%, elder 50%, hawthorn 15%, hazel 25%  | 1080                      | 6          | 4           | 0                              | 1               | 350                           | 4.20                        | 55  | M          | F                  | Scrub woodland on steep bank to NW of pond. Individual edge constraints recorded as individual trees. Bank extensively burrowed by rabbits. Grey squirrels observed. Trees unremarkable in own right but together with hedges and other woodland forms an attractive feature.   | No action required at time of survey. | 20+       | B2       |
| WG1004   | Hazel 20%, hawthorn 20%, field maple 20%, gean 20%, ash 20%  | 2345                      | 12         | 4           | 0.5                            | 1               | 400                           | 4.80                        | 72  | M          | F                  | Linear woodland group on either side of green lane consisting of under- and mid-storey trees. High canopy trees recorded individually as edge constraints. Generally unremarkable. Forms attractive natural and historical feature.   | No action required at time of survey. | 20+       | B2, 3    |

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**Table 3.4: Tree survey data schedule for hedgerows**

| Ref. No. | Species   | Ht.<br>(m) | Mean Width<br>(m) | Length<br>(m) | Mean Stem Dia.<br>(mm) | Life Stage | Phys. Condition | Structural condition & Notes  | Management recommendations            | Ret. Span | QV Grade |
|----------|---|------------|-------------------|---------------|------------------------|------------|-----------------|---|---------------------------------------|-----------|----------|
| HR1001   | Hazel 87%, ash 1%, hawthorn 5%, dog rose, dogwood 1%, blackthorn 5%, goat willow 1%, bramble.                       | 4          | 2.5               | 68            | 150                    | M          | F               | Field boundary hedgerow between post-and-rail and wire mesh fences. Stands on 0.5m earth bank. E facing side heavily pruned. Continuous to NE but becoming more discontinuous to SW. Hazel specimens at NW adjacent to TG1001 taller (H=6m). Rabbit warrens noted in bank. May be important hedgerow under Hedgerow Regulations (1997). | No action required at time of survey. | 20+       | C2       |
| HR1002   | Hawthorn, ash x 1   | 5          | 4                 | 135           | 295                    | OM         | G               | Field boundary. Specimens stand below high canopy trees 1006-1009. Old multi-stemmed plants typical for species. Aged specimens, some originating from old decayed stumps. Becoming more discontinuous to W before ending near to tree 1005.  | No action required at time of survey. | 20+       | B2       |
| HR1003   | Hawthorn 82%, hazel 10%, bramble, goat willow 1%, ash 1%, dog rose, dogwood 2%, damson 2%, elder 2%                 | 3.5        | 2.5               | 220           | 250                    | M          | G               | Field boundary hedgerow. Stands on 0.5m earth bank. Sides pruned. Otherwise unremarkable and in reasonable structural condition. Rabbit warrens noted in bank. May be important hedgerow under Hedgerow Regulations (1997).   | No action required at time of survey. | 20+       | B2       |
| HR1004   | Hawthorn 25%, hazel 25%, elder 2%, field maple 25%, blackthorn 10%, dogwood 10%, goat willow 2%, ash 1%             | 3          | 2                 | 230           | 150                    | EM         | G               | Field boundary hedgerow. Stands on 0.5m earth bank. Sides pruned. Otherwise unremarkable and in reasonable structural condition. Rabbit warrens noted in bank. May be important hedgerow under Hedgerow Regulations (1997).   | No action required at time of survey. | 20+       | C2       |
| HR1005   | Hawthorn 40%, elder 7%, bramble 5%, hazel 40%, pedunculate oak 1%, dogwood 5%, wych elm 2%                          | 2          | 3                 | 144           | 150                    | EM         | G               | Field boundary hedgerow. Stands on 0.5m earth bank. Unremarkable and in reasonable structural condition. Ditch adjacent. May be important hedgerow under Hedgerow Regulations (1997).   | No action required at time of survey. | 20+       | C2       |
| HR1006   | Hawthorn 43%, elder 5%, field maple 5%, dog rose, holly 1%, blackthorn 43%, sycamore 1%, ash 1%, pedunculate oak 1% | 2.5        | 3.5               | 170           | 175                    | M          | G               | Field boundary hedgerow. Stands on 0.5m earth bank. Unremarkable and in reasonable structural condition. Ditch adjacent. May be important hedgerow under Hedgerow Regulations (1997).   | No action required at time of survey. | 20+       | B2       |
| HR1007   | Hawthorn 43%, hazel 50%, ash 1%, field maple 5%, dog rose, sycamore 1%  | 7          | 6                 | 85            | 250                    | M          | G               | Field boundary hedgerow. Stands on 0.5m earth bank. Unremarkable and in reasonable structural condition. Ditch adjacent. May be important hedgerow under Hedgerow Regulations (1997).   | No action required at time of survey. | 20+       | B2       |
| HR1008   | Hawthorn 70%, holly 2%, spindle 3%, elder 1%, dog rose, field maple 20%, goat willow 3%, sycamore 1%, bramble       | 7          | 6                 | 60            | 250                    | M          | G               | Margin of off-site wooded area. Appears to be in reasonable structural condition. May be important hedgerow under Hedgerow Regulations (1997).  | No action required at time of survey. | 20+       | B2       |

| Ref. No. | Species  | Ht.<br>(m) | Mean Width<br>(m) | Length<br>(m) | Mean Stem Dia.<br>(mm) | Life Stage | Phys. Condition | Structural condition & Notes  | Management recommendations            | Ret. Span | QV Grade |
|----------|--|------------|-------------------|---------------|------------------------|------------|-----------------|---|---------------------------------------|-----------|----------|
| HR1009   | Field maple 5%, holly 1%, elder 2%, hawthorn 80%, pedunculate oak 5%, bramble, goat willow 1%, dogwood 5%, ash 1%              | 3.5        | 3                 | 141           | 200                    | M          | G               | Field boundary hedgerow. Stands on 0.5m earth bank. Unremarkable and in reasonable structural condition. Ditch adjacent. May be important hedgerow under Hedgerow Regulations (1997). Rabbit burrows noted below.   | No action required at time of survey. | 20+       | B2       |
| HR1010   | Hawthorn 70%, holly 2%, spindle 3%, elder 1%, dog rose, field maple 20%, goat willow 3%, sycamore 1%, bramble                  | 7          | 6                 | 55            | 250                    | M          | G               | Species-rich riparian hedgerow. Trees on S bank of watercourse considered. Appear to be in reasonable structural condition. May be important hedgerow under Hedgerow Regulations (1997).  | No action required at time of survey. | 20+       | B2       |
| HR1011   | Hawthorn 50%, hazel 40%, ash 10%   | 8          | 4                 | 22            | 280                    | M          | G               | Old growth hedgerow consisting of established regrowth from coppiced and layered stools. Trimmed sides with occasional significant deadwood. Stands on 1m earth bank. Ash specimens close to growing out as individual trees.   | No action required at time of survey. | 20+       | B2       |
| HR1012   | Hazel 50%, holly 3%, bramble, hawthorn 30%, elder 2.5%, dogwood 10%, field maple 1%, wych elm 1%, blackthorn 2.5%, honeysuckle | 3.5        | 3                 | 105           | 180                    | M          | G               | Field boundary hedgerow between post-and-rail and wire mesh fences. Stands on 0.5m earth bank. E facing side trimmed. May be important hedgerow under Hedgerow Regulations (1997).  | No action required at time of survey. | 20+       | B2       |
| HR1013   | Hazel 60%, hawthorn 20%, bramble, dog rose, dogwood 5%, wych elm 5%, blackthorn 5%, field maple 5%                             | 4          | 4                 | 155           | 250                    | M          | G               | Field boundary hedgerow. E / SE facing side trimmed. May be important hedgerow under Hedgerow Regulations (1997). Comprising old stools for 30m S of 1028 but more recent plants elsewhere. Off-site WG behind fence comprises gean and ash of diameter c. 180mm, RPA outside development area (not recorded separately). | No action required at time of survey. | 20+       | B2       |
| HR1014   | Hazel 73%, hawthorn 20%, bramble, dog rose, holly 2%, elder 2%, field maple 2%, blackthorn 1%                                  | 4          | 4                 | 245           | 250                    | M          | G               | Field boundary hedgerow. E / SE facing side trimmed. May be important hedgerow under Hedgerow Regulations (1997). Comprising established coppice stools. Off-site WG behind fence comprises gean and ash of diameter c. 220 and 205mm, RPA outside development area (not recorded separately).                            | No action required at time of survey. | 20+       | B2       |
| HR1015   | Hazel  | 10         | 5                 | 15            | 350                    | M          | G               | Continuation of HR1014. Plants apparently not recently cut resulting in overstood coppice of tree height. Unremarkable but would benefit from re-coppicing.   | No action required at time of survey. | 20+       | B2       |
| HR1016   | Hazel 35%, hawthorn 30%, field maple 35%, dog rose, bramble  | 5          | 3                 | 75            | 200                    | M          | G               | Co-located with TG1006. Forms understorey to high canopy trees. Unremarkable.   | No action required at time of survey. | 20+       | B2       |
| HR1017   | Hazel 40%, blackthorn 40%, hawthorn 20%  | 1.5        | 1                 | 35            | 100                    | EM         | G               | Recently planted hedge.   | No action required at time of survey. | >40       | C2       |

| Ref. No. | Species   | Ht.<br>(m) | Mean Width<br>(m) | Length<br>(m) | Mean Stem Dia.<br>(mm) | Life Stage | Phys. Condition | Structural condition & Notes  | Management recommendations            | Ret. Span | QV Grade |
|----------|---|------------|-------------------|---------------|------------------------|------------|-----------------|---|---------------------------------------|-----------|----------|
| HR1018   | Hazel 30%, blackthorn 30%, dogwood 30%, hawthorn 4%, field maple 3%, holly 3%, dog rose, bramble  | 3          | 4                 | 225           | 250                    | M          | G               | Field boundary hedgerow. E / SE facing side trimmed. May be important hedgerow under Hedgerow Regulations (1997). Comprising established coppice stools. Rabbit burrows noted beneath.  | No action required at time of survey. | 20+       | B2       |
| HR1019   | Hawthorn 60%, hazel 9%, blackthorn 30%, field maple 1%  | 7          | 5                 | 70            | 340                    | M          | G               | Partially off-site. Hawthorns allowed to grow out into trees. Unremarkable. Of some ecological value. Attractive natural feature.   | No action required at time of survey. | 20+       | B2       |
| HR1020   | Hawthorn 30%, wych elm 9%, hazel 60%, field maple 1%  | 8          | 10                | 80            | 350                    | OM         | G               | Partial double row on either side of old green lane. Specimens (except elm) comprise aged coppice stools, some cut to retain individual stems as sap risers, others uncut. Primary structure generally in satisfactory condition. Crowns healthy. | No action required at time of survey. | 20+       | B2       |
| HR1021   | Hawthorn 50%, hazel 50%   | 8          | 6                 | 100e          | 350                    | M          | G               | Old growth hedgerow consisting of established regrowth from coppiced stools. Outgrown into trees with occasional significant deadwood. Large spaces with bramble between plants.  | No action required at time of survey. | 20+       | B2       |
| HR1022   | Hawthorn 25%, hazel 40%, dog rose, goat willow 2%, ash 2%, bramble, blackthorn 30%, sycamore 1%   | 4          | 4                 | 50            | 250                    | M          | G               | Field boundary hedgerow. May be important hedgerow under Hedgerow Regulations (1997). Comprising established coppice stools. Rabbit burrows noted beneath.  | No action required at time of survey. | 20+       | B2       |
| HR1023   | Hazel 55%, hawthorn 20%, bramble, wych elm 2.5%, blackthorn 5%, dogwood 5%, dog rose, field maple 5%, goat willow 2.5%, sycamore 2.5%, ash 2.5% | 4          | 3                 | 210           | 350                    | M          | G               | Field boundary hedgerow. May be important hedgerow under Hedgerow Regulations (1997). Comprising established coppice stools. Rabbit burrows and ditch noted beneath.  | No action required at time of survey. | 20+       | B2       |
| HR1024   | Hawthorn 85%, blackthorn 15%  | 3          | 2.5               | 87            | 100                    | EM         | G               | Field boundary hedgerow. Widely spaced specimens. Low merit.  | No action required at time of survey. | >40       | C1       |
| HR1025   | Bramble 97.5%, goat willow 2.5%   | 2.5        | 4                 | 51            | 100                    | M          | G               | Field boundary hedgerow. Low merit.   | No action required at time of survey. | 20+       | C2       |
| HR1026   | Hazel 70%, hawthorn 5%, wych elm 25%  | 8          | 6                 | 48            | 580                    | M          | G               | Old growth hedgerow consisting of established regrowth from coppiced stools. Outgrown into trees with occasional significant deadwood. Significant group of medium-size Elm.  | No action required at time of survey. | 20+       | B2       |
| HR1027   | Hazel 50%, hawthorn 2.5%, field maple 2.5%, honeysuckle, dog rose, elder 2.5%, field elm 2.5%, blackthorn 40%                                   | 4          | 4                 | 210           | 250                    | M          | G               | Field boundary hedgerow. May be important hedgerow under Hedgerow Regulations (1997). Comprising established coppice stools. Rabbit burrows noted beneath. Specimen at E end taller than is typical for group (H=7m).                             | No action required at time of survey. | 20+       | B2       |

| Ref. No. | Species  | Ht.<br>(m) | Mean Width<br>(m) | Length<br>(m) | Mean Stem Dia.<br>(mm) | Life Stage | Phys. Condition | Structural condition & Notes  | Management recommendations            | Ret. Span | QV Grade |
|----------|--|------------|-------------------|---------------|------------------------|------------|-----------------|---|---------------------------------------|-----------|----------|
| HR1028   | Hazel 55%, hawthorn 22.5%, bramble, wych elm 2.5%, blackthorn 10%, dogwood 2.5%, dog rose, field maple 2.5%, sycamore 2.5%, ash 2.5% | 4          | 4                 | 160           | 250                    | M          | G               | Field boundary hedgerow. May be important hedgerow under Hedgerow Regulations (1997). Comprising established coppice stools. Rabbit burrows noted beneath.                | No action required at time of survey. | 20+       | B2       |
| HR1029   | Hawthorn, ash, hazel   | 8          | 5                 | 20            | 275                    | M          | G               | Old growth hedgerow consisting of established regrowth from coppiced stools. Outgrown into trees with occasional significant deadwood.                                    | No action required at time of survey. | 20+       | B2       |
| HR1030   | Hawthorn 20%, field maple 50%, blackthorn 20%, Hazel 2.5%, oak 2.5%, ash 2.5%, bramble, dog rose, goat willow 2.5%                   | 4          | 4                 | 200           | 250                    | M          | G               | Field boundary hedgerow. May be important hedgerow under Hedgerow Regulations (1997). Comprising established coppice stools. Rabbit burrows noted beneath.                | No action required at time of survey. | 20+       | B2       |
| HR1031   | Hawthorn 20%, field maple 50%, blackthorn 20%, Hazel 2.5%, oak 2.5%, ash 2.5%, bramble, dog rose, goat willow 2.5%                   | 4          | 4                 | 124           | 250                    | M          | G               | Field boundary hedgerow. May be important hedgerow under Hedgerow Regulations (1997). Comprising established coppice stools. Rabbit burrows noted beneath.                | No action required at time of survey. | 20+       | B2       |
| HR1032   | Hawthorn 45%, blackthorn 45%, goat willow 7.5%, dog rose, elder 2.5%   | 3          | 3                 | 52            | 250                    | M          | G               | Field boundary hedgerow. May be important hedgerow under Hedgerow Regulations (1997). Comprising established coppice stools. Ditch immediately adjacent.                  | No action required at time of survey. | 20+       | B2       |
| HR1033   | Hazel 40%, blackthorn 40%, hawthorn 10%, dogwood 10%   | 8          | 5                 | 31            | 350                    | M          | G               | Old growth hedgerow consisting of established regrowth from coppiced stools. Outgrown into trees with occasional significant deadwood. May be off-site.                   | No action required at time of survey. | 20+       | B2       |
| HR1034   | Hazel 40%, blackthorn 40%, elder 10%, dogwood 10%  | 3          | 2.5               | 81            | 250                    | M          | G               | Field boundary hedgerow. May be important hedgerow under Hedgerow Regulations (1997). Comprising established coppice stools. Ditch immediately adjacent. May be off-site. | No action required at time of survey. | 20+       | B2       |
| HR1035   | Blackthorn, hazel, hawthorn  | 2          | 2                 | 185           | 150                    | EM         | G               | Field boundary hedgerow. Comprising established coppice stools but relatively young. Heavily cut back on N side to accommodate fence.                                     | No action required at time of survey. | >40       | C2       |
| HR1036   | Hawthorn 20%, field maple 50%, blackthorn 20%, Hazel 2.5%, oak 2.5%, ash 2.5%, bramble, dog rose, goat willow 2.5%                   | 4          | 4                 | 110           | 250                    | M          | G               | Field boundary hedgerow. May be important hedgerow under Hedgerow Regulations (1997). Comprising established coppice stools. Rabbit burrows noted beneath.                | No action required at time of survey. | 20+       | B2       |
| HR1037   | Hazel 50%, hawthorn 40%, elder 5%, field maple 2.5%, blackthorn 2.5%   | 4          | 4                 | 60            | 250                    | M          | G               | Field boundary hedgerow. May be important hedgerow under Hedgerow Regulations (1997). Comprising established coppice stools.  | No action required at time of survey. | 20+       | B2       |

| Ref. No. | Species  | Ht.<br>(m) | Mean Width<br>(m) | Length<br>(m) | Mean Stem Dia.<br>(mm) | Life Stage | Phys. Condition | Structural condition & Notes   | Management recommendations            | Ret. Span | QV Grade |
|----------|--|------------|-------------------|---------------|------------------------|------------|-----------------|--|---------------------------------------|-----------|----------|
| HR1038   | Blackthorn 70%, hazel 2.5%, hawthorn 15%, field maple 2.5%, goat willow 2.5%, ash 2.5%, elder 2.5%, oak 2.5%, bramble, dog rose  | 4          | 4                 | 310           | 250                    | M          | G               | Field boundary hedgerow. May be important hedgerow under Hedgerow Regulations (1997). Comprising established coppice stools. Rabbit burrows noted beneath. | No action required at time of survey. | 20+       | B2       |
| HR1039   | Blackthorn 40%, hawthorn 30%, elder 2.5%, bramble, ash 1%, pedunculate oak 1%, hazel 10%, dog rose, field maple 10%, wych elm 1%, dogwood 1%, hazel 1%, goat willow 2.5%, honeysuckle. | 4          | 4                 | 350           | 350                    | M          | G               | Field boundary hedgerow. May be important hedgerow under Hedgerow Regulations (1997). Comprising established coppice stools. Rabbit burrows noted beneath. | No action required at time of survey. | 20+       | B2       |
| HR1040   | Hazel 25%, holly, hawthorn 25%, dog rose, field maple 5%, bramble, elder 4%, blackthorn 40%, sycamore 1%   | 5          | 3                 | 164           | 350                    | M          | G               | Field boundary hedgerow. May be important hedgerow under Hedgerow Regulations (1997). Comprising established coppice stools. Rabbit burrows noted beneath. | No action required at time of survey. | 20+       | B2       |
| HR1041   | Hazel 25%, hawthorn 20%, dog rose, field maple 15%, bramble, elder 2.5%, blackthorn 30%, dogwood 2.5%, white willow 2.5%, sessile oak 2.5%   | 3          | 4                 | 125           | 250                    | M          | G               | Field boundary hedgerow. May be important hedgerow under Hedgerow Regulations (1997). Comprising established coppice stools.                               | No action required at time of survey. | 20+       | B2       |

## PRELIMINARY ADVICE

- 10.28. The following comments are intended to draw attention to key aspects of the trees and hedgerows present on the Proposed Development Site and matters to consider in formulating the final design of the site.
- 10.29. The survey area considered currently contains trees and tree groups as follows:

**Table 10A.2: Trees and Groups on site**

|   |  |
|---|--|
| Veteran trees (Category A*)               | 4 (trees 1004, 1005, 1070, 1071)                   |
| Notable trees (Category A*)               | 7 (trees 1016, 1024, 1055, 1069, 1074, 1075, 1077) |
| Category A trees (including A* specimens) | 17 (7%)  |
| Category B trees                          | 160 (63%)  |
| Category C trees                          | 56 (22%)   |
| Category U trees                          | 20 (8%)  |

### Hazard trees

- 10.30. Gean tree 1064, adjacent to the access road to Upper Court, is in an unsatisfactory condition and presents a foreseeable risk of collapse onto the road. This tree should be removed within 13 weeks.

### Hedgerows

- 10.31. The survey area contains a total of 4963m of hedgerows. The majority of these contain a diverse range of woody species in association with ditches, banks, woodlands, water features, other connected hedgerows and a wide range of ground flora. Consequently, these may constitute 'Important Hedgerows' as defined under the Hedgerow Regulations 1997.

### Woodland groups

- 10.32. The survey area contains a total of 8795m<sup>2</sup> of woodland with many significant trees present, however these lie outside of the Proposed Development area.

## Veteran trees

- 10.33. A number of trees display features and a size consistent with veteran status as assessed using the RAVEN system. Such trees are recognised as being of particular value due to their age, size and ecological value. Such trees are particularly sensitive to changes in their environment.
- 10.34. Standing advice issued by the Forestry Commission and Natural England (2018) recommends that the root protection area (RPA) surrounding veteran trees should be calculated as a circle of radius equal to 15 x stem diameter. This has been applied to the relevant RPAs shown on **Figure 10A.1 of Appendix 10A.1**. Particular care must be taken to ensure that the Proposed Development does not encroach into veteran tree RPAs, either due to siting of the solar array or to construction space requirements. If encroachment cannot be avoided, particular engineering and tree protection measures will be needed to prevent long term damage to these specimens.
- 10.35. Of particular note is Pedunculate oak tree 1070 which is a veteran pollard. Trees of this type are ecologically and historically important and are likely to be particularly aged.

## Notable trees

- 10.36. A number of trees are of a particularly large size for the species and are thus of considerable importance. Trees of this type may become veteran trees in the future. The RPA formula specified in BS5837:2012 has been applied to these trees on **Figure 10A.1**.
- 10.37. Of particular note is beech tree 1024 which is a particularly large example of the species.

## Other Matters

- 10.38. Other matters of relevance to this project include (but are not limited to):
- Shade arcs
  - Access facilitation pruning
  - Conflicts with trees requiring tree removal
  - Felling licence requirement
  - RPA incursions
  - Reflected light onto sensitive trees
  - Solar panel ground fixing methods.
  - Use of concrete in or near RPAs
  - Cable transits / trenching



- Position of new pylons / cable poles
- Access routes
- Size and nature of machinery required
- Materials storage
- Welfare facilities / site offices
- Waste handling
- Seasonal effects
- Ground protection
- Tree protection fencing
- Construction exclusion zones
- Other tree protection measures
- Mitigation measures
- Supervision / monitoring

10.39. These matters can be considered and resolved within **Technical Appendix 10B: Arboricultural Impact Assessment of Volume 3: Technical Appendices.**

## SURVEY KEY

### Tree numbering

- 10.40. Trees are generally numbered consecutively starting at T1001.
- 10.41. In line with the advice of BS5837:2012, where trees occur as a cohesive group feature (prefixed G for tree group or W for woodland group), they are assessed as such.
- 10.42. TG / WG outlines follow the mapping base (typically either topographical survey or geo-rectified aerial imagery)
- 10.43. Hedgerows (rural) are recorded prefixed HR and possibly fall within the provisions of the Hedgerows Regulations 1997
- 10.44. All numbering starts from x1001 for each type of vegetation. Thus:

**Table 10A.3: Numbering**

|        |                 |
|--------|-----------------|
| 1001   | Individual Tree |
| TG1001 | Tree Group      |
| WG1001 | Woodland Group  |
| HR1001 | Rural Hedgerow  |

- 10.45. Any trees omitted from the topographic survey are listed on the referenced plan, though their positions are only shown indicatively. Off-site trees are included where deemed relevant, though their positions are also shown indicatively if omitted from the topographic survey.

### Species

- 10.46. Tree species as listed in the schedule by common name. Species present are detailed in **Table 10A.4** below:

**Table 10A.4: Tree Species**

| Common name | Botanical name            |        |
|-------------|---------------------------|--------|
| Alder       | <i>Alnus glutinosa</i>    | Native |
| Apple       | <i>Malus domestica</i>    | Native |
| Ash         | <i>Fraxinus excelsior</i> | Native |
| Beech       | <i>Fagus sylvatica</i>    | Native |

|                  |   |             |
|------------------|---|-------------|
| Blackthorn       | <i>Prunus spinosa</i>                           | Native      |
| Crack Willow     | <i>Salix fragilis</i>                           | Native      |
| Damson           | <i>Prunus domestica</i> subsp. <i>insititia</i> | Native      |
| Dogwood          | <i>Cornus officinalis</i>                       | Native      |
| Elder            | <i>Sambucus nigra</i>                           | Native      |
| Elm              | <i>Ulmus procera</i>                            | Native      |
| Field Maple      | <i>Acer campestre</i>                           | Native      |
| Gean             | <i>Prunus avium</i>                             | Native      |
| Goat Willow      | <i>Salix caprea</i>                             | Native      |
| Hawthorn         | <i>Crataegus monogyna</i>                       | Native      |
| Hazel            | <i>Corylus avellana</i>                         | Native      |
| Holly            | <i>Ilex aquifolium</i>                          | Native      |
| Hybrid Oak       | <i>Quercus x rosacea</i>                        | Native      |
| Pedunculate Oak  | <i>Quercus robur</i>                            | Native      |
| Sessile Oak      | <i>Quercus petraea</i>                          | Native      |
| Silver Birch     | <i>Betula pendula</i>                           | Native      |
| Spindle          | <i>Euonymus europaeus</i>                       | Native      |
| Sycamore         | <i>Acer pseudoplatanus</i>                      | Naturalised |
| White Willow     | <i>Salix alba</i>                               | Native      |
| Wych Elm         | <i>Ulmus glabra</i>                             | Native      |
| Bramble          | <i>Rubs fruticosus</i>                          | Native      |
| Dog Rose         | <i>Rosa canina</i>                              | Native      |
| Wild Honeysuckle | <i>Lonicera periclymenum</i>                    | Native      |

### Tree Count

10.47. For trees assessed as groups (ident. prefix TG), number of trees present, according to:

**Table 10A.5: Tree Count**

|              |                |
|--------------|----------------|
| 2-10 trees   | Accurate count |
| 11-50 trees  | Close estimate |
| 51-100 trees | Estimate       |

### Ht. (m)

10.48. Tree height in metres

### Crown Spread

10.49. For individual trees, measured radial crown spread in metres, listed for each of the four cardinal points.

### MRCS

10.50. For trees assessed as groups or woodland, an estimated mean radial crown spread in metres.

10.51. **Note:** For trees assessed as woodland, sample measurements for canopy overhang beyond woodland boundary (i.e. hedgerow, fence, ditch etc.) are given on **Figure 10A.1**.

### Mean Width

10.52. Mean width in metres of hedgerow

### Length

10.53. Approximate length in metres of hedgerow

### Clearance over ground

10.54. For individual trees and trees assessed as groups or woodland, height in metres above ground of attachment point of first significant branch (cardinal point may be given indicating growing direction) or of lower extent of tree canopy above ground, whichever is lower.

### Stem Dia. (mm)

10.55. Stem diameter(s) at 1.5m above ground level (see measurement system in BS5837:2012 Annex C), given in millimetres.

- For single stemmed trees: Single measured stem diameter
- For trees with 2-5 stems: A combined stem diameter calculated as:  $\sqrt{((\text{stem diameter } 1)^2 + [(\text{stem diameter } 2)]^2 \dots + (\text{stem diameter } 5)^2)}$
- For trees with >5 stems: A combined stem diameter calculated as:  $\sqrt{((\text{mean stem diameter})^2 \times \text{number of stems})}$

10.56. Where the diameter entry appears in italics, this indicates that it was estimated by the surveyor (for example, due to the presence of ivy on the stem).

**Specimen Stem Dia.**

10.57. For trees assessed as groups or woodland, stem diameter in millimetres at 1.5m above ground level. Trees with larger diameters are identified on **Figure 10A.1**.

**Mean Stem Dia.**

10.58. Mean stem diameter in millimetres above the basal flare of hedge or hedgerow component plants

**Life Stage**

10.59. See **Table 10A.6** below for Life Stages:

**Table 10A.6: Life Stages**

| Life Stages |              |
|-------------|--------------|
| Y           | Young        |
| SM          | Semi-mature  |
| EM          | Early-mature |
| M           | Mature       |
| OM          | Over-mature  |
| V           | Veteran      |

**Phys. Condition**

10.60. An assessment of the physiological condition (i.e. health/vitality) status of the tree summarised according to:

**Table 10A.7: Physical Condition**

| Physical Condition |      |  |
|--------------------|------|--|
| G                  | Good | Generally in healthy condition                               |
| F                  | Fair | Condition satisfactory though below mean species performance |
| P                  | Poor | Tree in decline / retrenching                                |
| D                  | Dead | Self explanatory   |

**Structural condition & Notes**

10.61. Notes on the apparent structural integrity of the tree based on visual tree assessment, including notes on form, taper, forking habit, storm damage, decay fungi, pests, etc. plus other pertinent observations

**Management recommendations**

10.62. Preliminary recommendations for intervention (e.g. tree surgery, felling, etc) in relation to existing context where the intervention is intended to remedy a significant risk to persons or property.

10.63. Where the recommendation is for further investigation, including removal of ivy and reinspection, the given retention span and quality/value grade (see below) should be treated as provisional.

**Ret. Span**

10.64. Estimated remaining retention span based on species, condition & context divided into the following bands (relates to quality and value grade achievable as stated):

**Table 10A.8: QV Grades**

| Years | QV Grade |
|-------|----------|
| <10   | U        |
| 10+   | C        |

|     |   |
|-----|---|
| 20+ | B |
| >40 | A |

**QV Grade**

10.65. Quality & Value grade classification according to BS5837:2012 (see **Table 10A.9** below for an extract from BS5837:2012 ‘*Table 1 - Cascade Chart for Tree Quality Assessment*’) –

**Table 10A.9: Grade Classification according to BS5837:2012**

| Grade | Summary Meaning  | Ident. colour on Tree Constraints Plan (Figure 10.A) |
|-------|--|--|
| U     | Trees that are unretainable in viable condition                | Dark red   |
| A     | High quality and value and consequent high retention priority  | Light green  |
| B     | Moderate quality and value (moderate priority for retention)   | Mid-blue   |
| C     | Low quality and value (generally considered to be sacrificial) | Grey   |

10.66. Note: Trees present which may be considered to be exceptional specimens are identified by the suffix \* after the A grade, e.g. A1\*

10.67. Table 10A.10 below presents an excerpt of BS5837:2012 ‘*Table 1 - Cascade Chart for Tree Quality Assessment*’ for reference.

**Table 10A.10: Excerpt of BS5837:2012 ‘Table 1 - Cascade Chart for Tree Quality Assessment’**

| Category and definition   | Criteria (including subcategories where appropriate)  |   |  | BRITISH STANDARD BS 5837:2012 |
|---|---|---|--|-------------------------------|
| <u>Category U</u><br>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 U category trees (i.e. 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 4.5.7 |   |  |                               |
|   | 1 Mainly Arboricultural values  | 2 Mainly landscape values                 | 3 Mainly cultural values, including conservation |                               |
| <u>Category A</u><br>Trees that are particularly good examples of their   | Trees, groups or woodlands of particular visual   | Trees, groups or woodlands of significant |  |                               |

|  |  |  |  |  |
|--|--|--|--|--|
| <p>Those of high quality with an estimated remaining life expectancy of at least 40 years</p>  | <p>species, especially if rare or unusual, or essential components of groups, or of formal or semi-formal arboricultural features (e.g. the dominant and/or principal trees within an avenue)</p>  | <p>importance as Arboricultural and/or landscape features</p>  | <p>conservation; historical, commemorative or other value (e.g. veteran trees or wood-pasture)</p> |  |
| <p><u>Category B</u><br/><br/>Those of moderate quality with an estimated remaining life expectancy of at least 20 years</p>   | <p>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</p> | <p>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</p> | <p>Trees with material conservation or other cultural benefits</p>                                 |  |
| <p><u>Category C</u><br/><br/>Those of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150mm</p> | <p>Unremarkable trees of very limited merit or such impaired condition that they do not qualify in higher categories</p>   | <p>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</p>  | <p>Trees with no material conservation or other cultural value</p>                                 |  |



## APPENDICES

### Appendix 10A.1: Figures

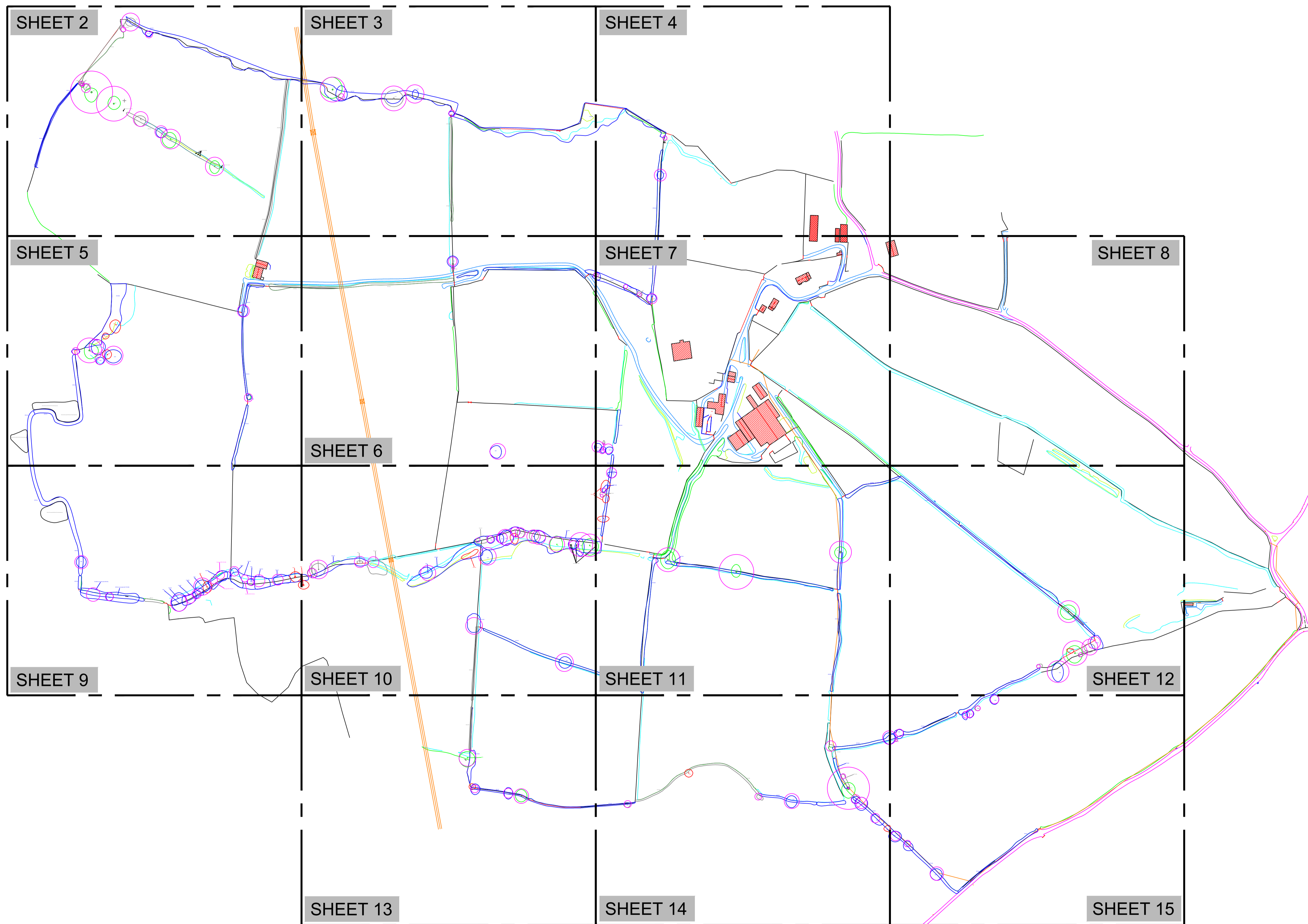
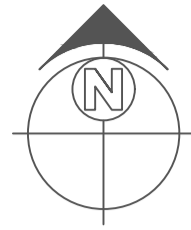
- Figure 10A.1: Tree Constraints Plan

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## Appendix 10A.1: Figures

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**Key**

- Notable, veteran or ancient trees ●
  - Category A trees ●
  - Category B trees ●
  - Category C trees ●
  - Category U trees ●
  - Root Protection Areas ○
  - Stumps, off-site trees outside development area ○
- Tree groups, hedgerows and woodland groups are shown in outline, according to the colour scheme above.

Based on topographical survey PLOT1-9.20\_026 prepared by Southern Land Surveys, dated 06/04/20

NB: Stems of the following trees and tree groups were shown on the topographical survey and are believed to be in accurate positions: Trees 1004-9, 10019, 1026-27, 1035, 1056-57, 1061, 1069, 1075 and TG1022. Hedgerow and woodland locations were also provided on the topographical survey.

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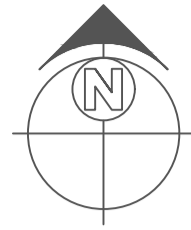
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**Project:** Penpergwym Solar Farm  
**Client:** Renewable Connection  
**Drawing:** Tree Survey Plan (Overall)

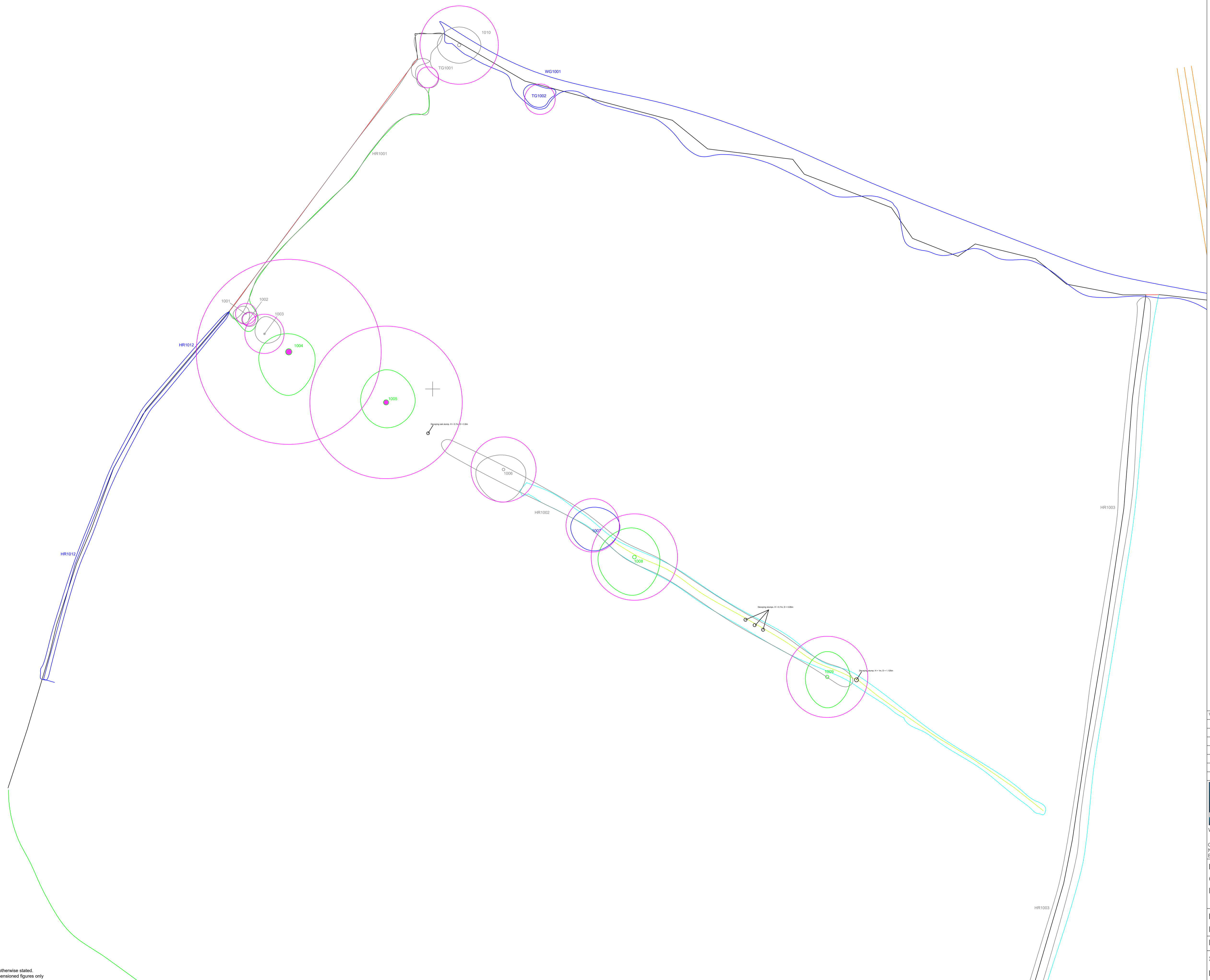
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**Scale:** 1:3,000 @ A1 **Revision:**  
**Date:** 05 May 2021 **A**



### Key

- Notable, veteran or ancient trees ●
  - Category A trees ○
  - Category B trees ○
  - Category C trees ○
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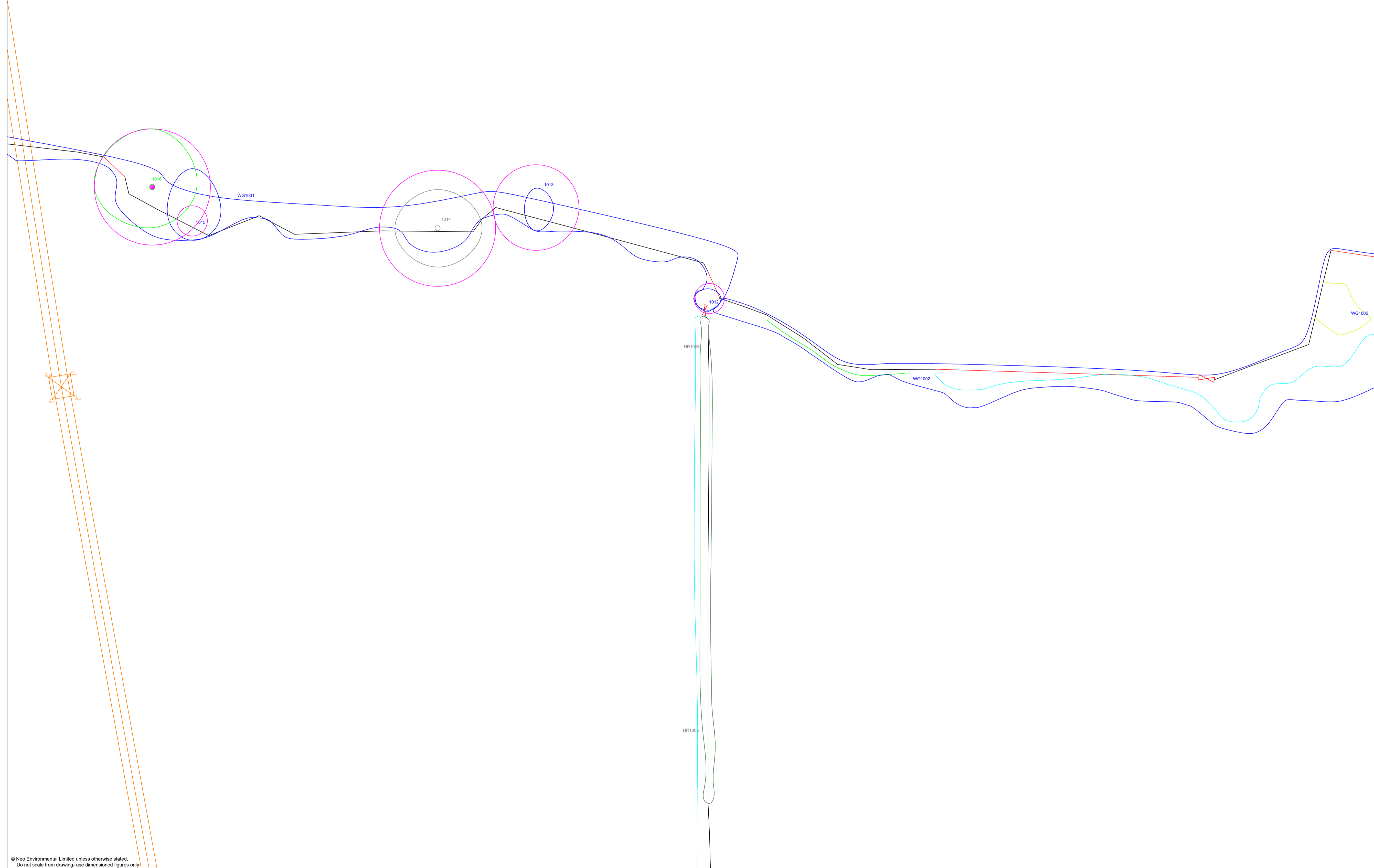
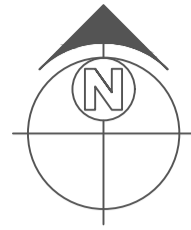
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**Project:** Penpergwm Solar Farm  
**Client:** Renewable Connection  
**Drawing:** Tree Survey Plan (Sheet 2)

**Project No.:** NEO00668  
**Drawing No.:** NEO00668\_0771\_A Figure 10A.1  
**Drawn:** JM **Checked:** MM **Approved:** PN

**Scale:** 1:500 @ A1 **Revision:**  
**Date:** 05 May 2021 **A**



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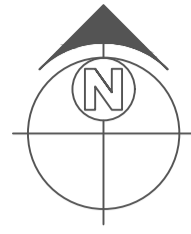
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**Project:** Penpergwm Solar Farm  
**Client:** Renewable Connection  
**Drawing:** Tree Survey Plan (Sheet 3)

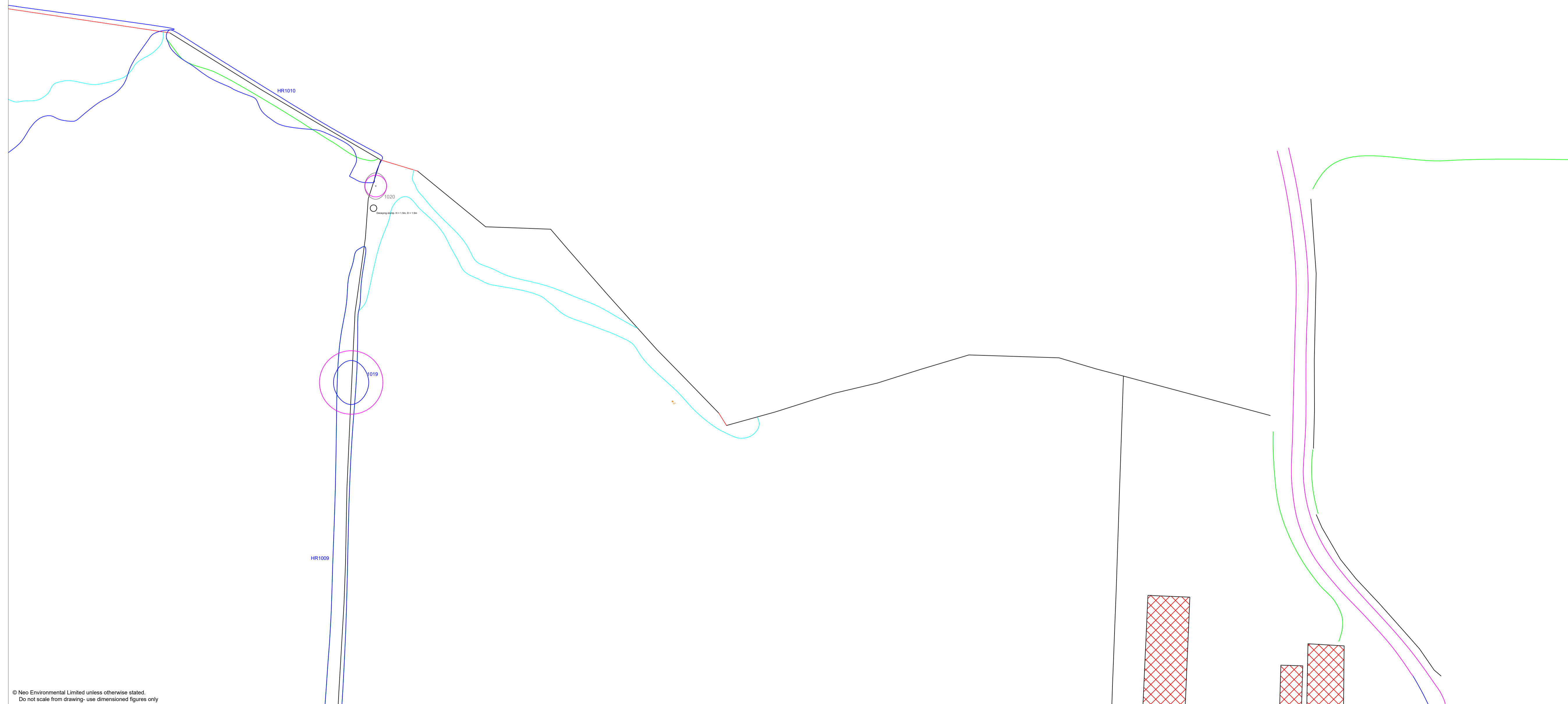
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**Scale:** 1:500 @ A1 **Revision:**  
**Date:** 05 May 2021 **A**



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**Project:** Penpergwym Solar Farm  
**Client:** Renewable Connection  
**Drawing:** Tree Survey Plan (Sheet 4)

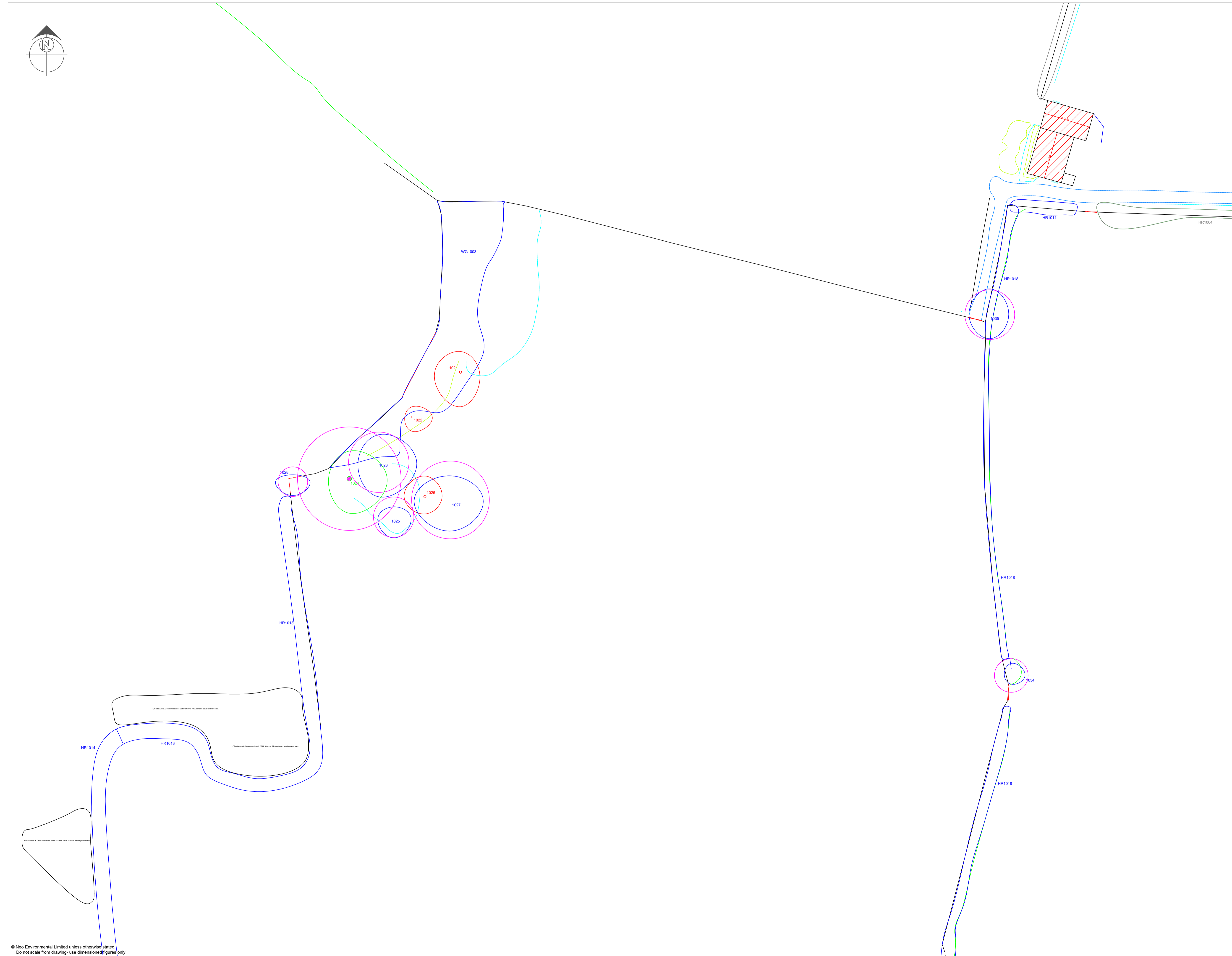
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**Drawing No.:** NEO00668\_0791\_A Figure 10A.1  
**Drawn:** JM **Checked:** MM **Approved:** PN

**Scale:** 1:500 @ A1 **Revision:**  
**Date:** 05 May 2021 **A**



### Key

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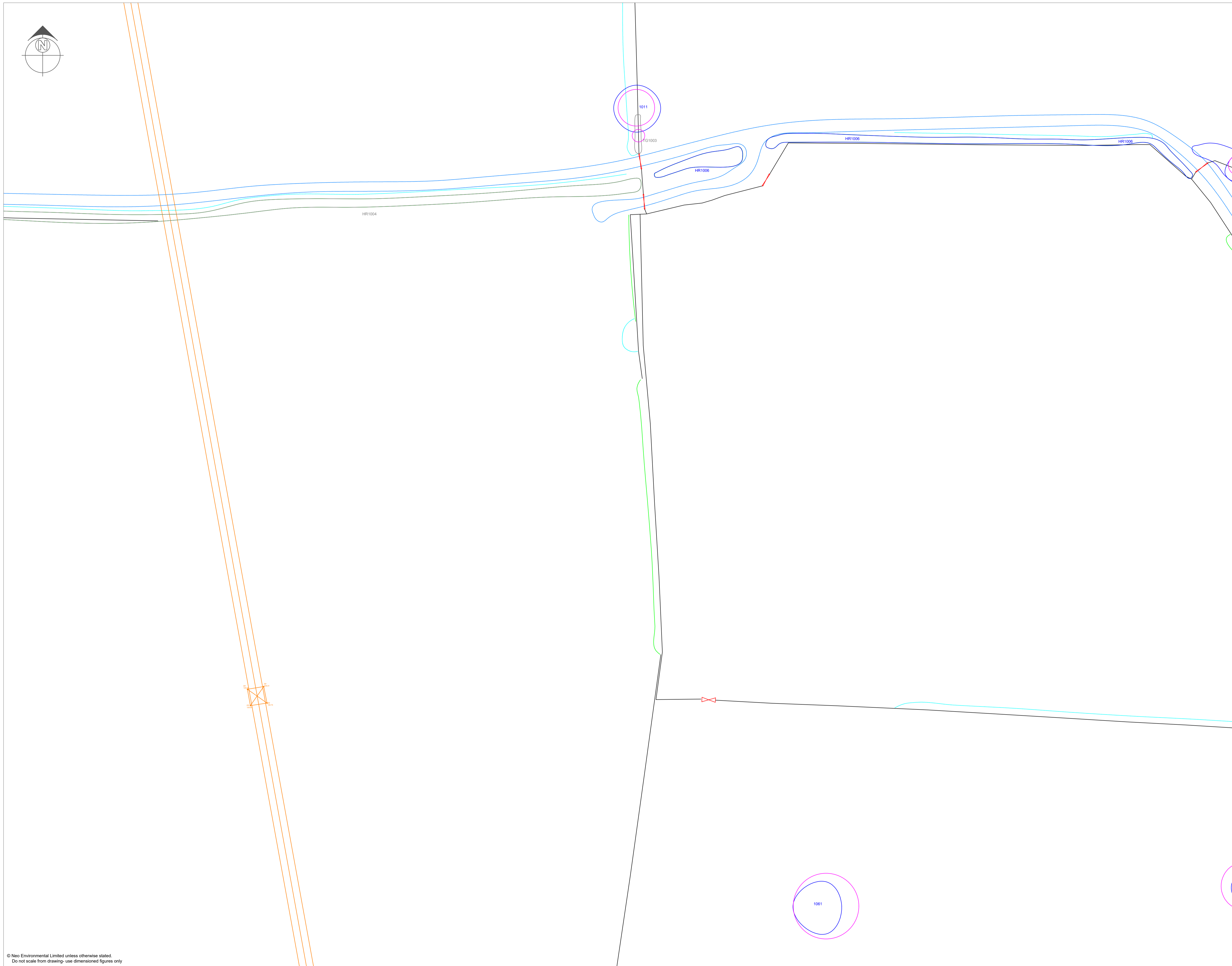
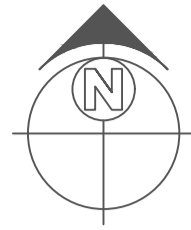
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**Project:** Penpergwm Solar Farm  
**Client:** Renewable Connection  
**Drawing:** Tree Survey Plan (Sheet 5)

**Project No.:** NEO00668  
**Drawing No.:** NEO00668\_0801\_A Figure 10A.1  
**Drawn:** JM **Checked:** MM **Approved:** PN

**Scale:** 1:500 @ A1 **Revision:**  
**Date:** 05 May 2021 **A**



### Key

- Notable, veteran or ancient trees ●
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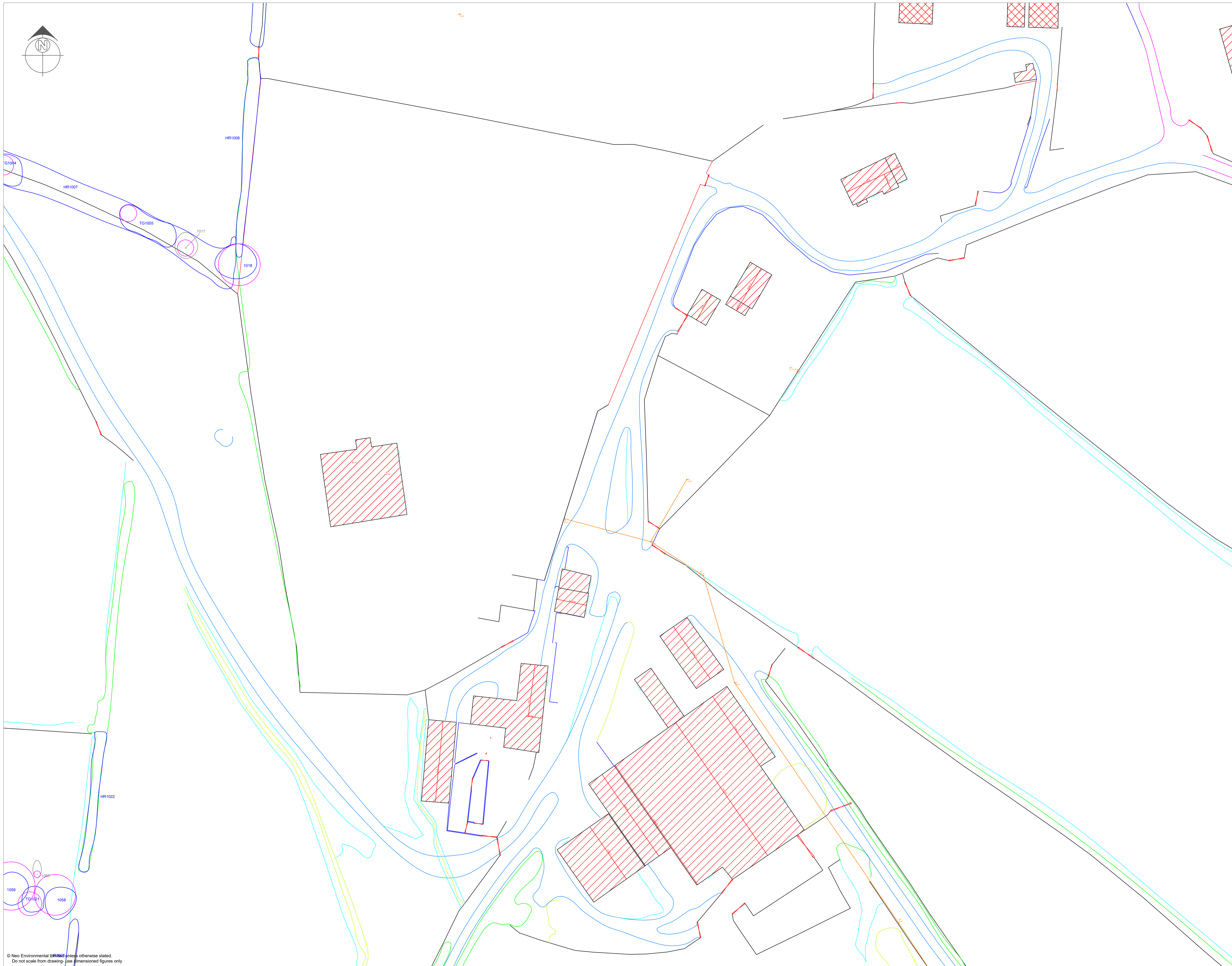
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**Project:** Penpergwm Solar Farm  
**Client:** Renewable Connection  
**Drawing:** Tree Survey Plan (Sheet 6)

**Project No.:** NEO00668  
**Drawing No.:** NEO00668\_0811\_A Figure 10A.1  
**Drawn:** JM **Checked:** MM **Approved:** PN

**Scale:** 1:500 @ A1 **Revision:** A  
**Date:** 05 May 2021





### Key

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A 05/05/2021

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**Project:** Penpergwm Solar Farm  
**Client:** Renewable Connection  
**Drawing:** Tree Survey Plan (Sheet 7)

**Project No.:** NEO00668  
**Drawing No.:** NEO00668\_0821\_A Figure 10A.1  
**Drawn:** JM **Checked:** MM **Approved:** PN

**Scale:** 1:500 @ A1 **Revision:**  
**Date:** 05 May 2021 **A**



**Key**

- Notable, veteran or ancient trees ●
- Category A trees ○
- Category B trees ○
- Category C trees ○
- Category U trees ○
- Root Protection Areas ○
- Stumps, off-site trees outside development area ○

Tree groups, hedgerows and woodland groups are shown in outline, according to the colour scheme above.

Based on topographical survey PLOT1-9.20\_026 prepared by Southern Land Surveys, dated 06/04/20

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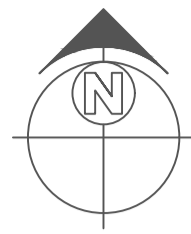
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**Project:** Penpergwym Solar Farm  
**Client:** Renewable Connection  
**Drawing:** Tree Survey Plan (Sheet 8)

**Project No.:** NEO00668  
**Drawing No.:** NEO00668\_0831\_A Figure 10A.1  
**Drawn:** JM **Checked:** MM **Approved:** PN

**Scale:** 1:500 @ A1 **Revision:**  
**Date:** 05 May 2021 **A**



- ### Key
- Notable, veteran or ancient trees ●
  - Category A trees ○
  - Category B trees ○
  - Category C trees ○
  - Category U trees ○
  - Root Protection Areas ○
  - Stumps, off-site trees outside development area ○
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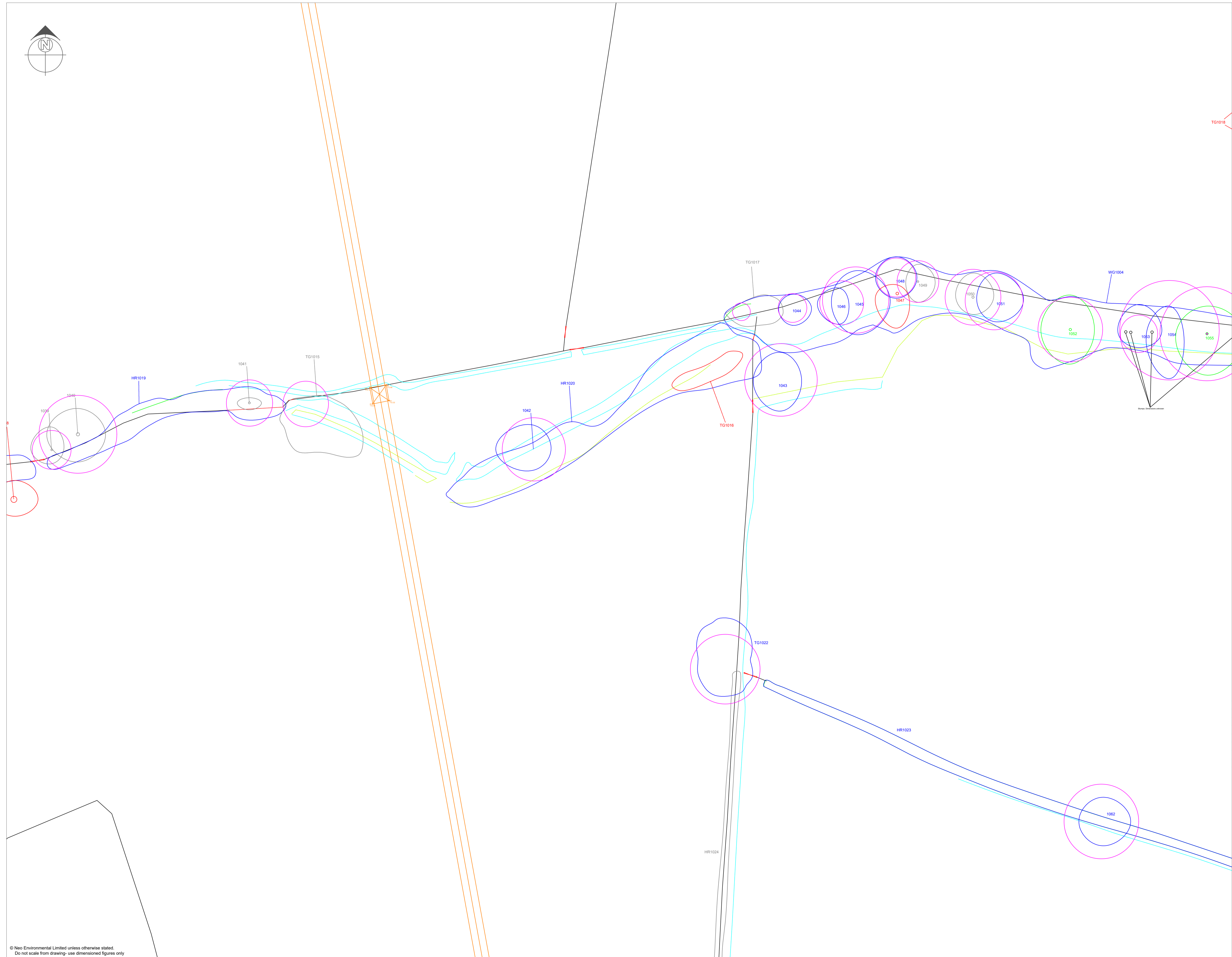
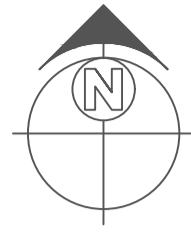


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|---------------------|------------------------------|------------------|----|
| <b>Project:</b>     | Penpergwm Solar Farm         |                  |    |
| <b>Client:</b>      | Renewable Connection         |                  |    |
| <b>Drawing:</b>     | Tree Survey Plan (Sheet 9)   |                  |    |
| <b>Project No.:</b> | NEO00668                     |                  |    |
| <b>Drawing No.:</b> | NEO00668_0841_A Figure 10A.1 |                  |    |
| <b>Drawn:</b>       | JM                           | <b>Checked:</b>  | MM |
| <b>Approved:</b>    | PN                           |                  |    |
| <b>Scale:</b>       | 1:500 @ A1                   | <b>Revision:</b> | A  |
| <b>Date:</b>        | 05 May 2021                  |                  | A  |



### Key

- Notable, veteran or ancient trees ●
- Category A trees ○
- Category B trees ○
- Category C trees ○
- Category U trees ○
- Root Protection Areas ○
- Stumps, off-site trees outside development area ○
- Tree groups, hedgerows and woodland groups are shown in outline, according to the colour scheme above.

Based on topographical survey PLOT1-9.20\_026 prepared by Southern Land Surveys, dated 06/04/20

NB: Stems of the following trees and tree groups were shown on the topographical survey and are believed to be in accurate positions: Trees 1004-9, 10019, 1026-27, 1035, 1056-57, 1061, 1069, 1075 and TG1022. Hedgerow and woodland locations were also provided on the topographical survey.

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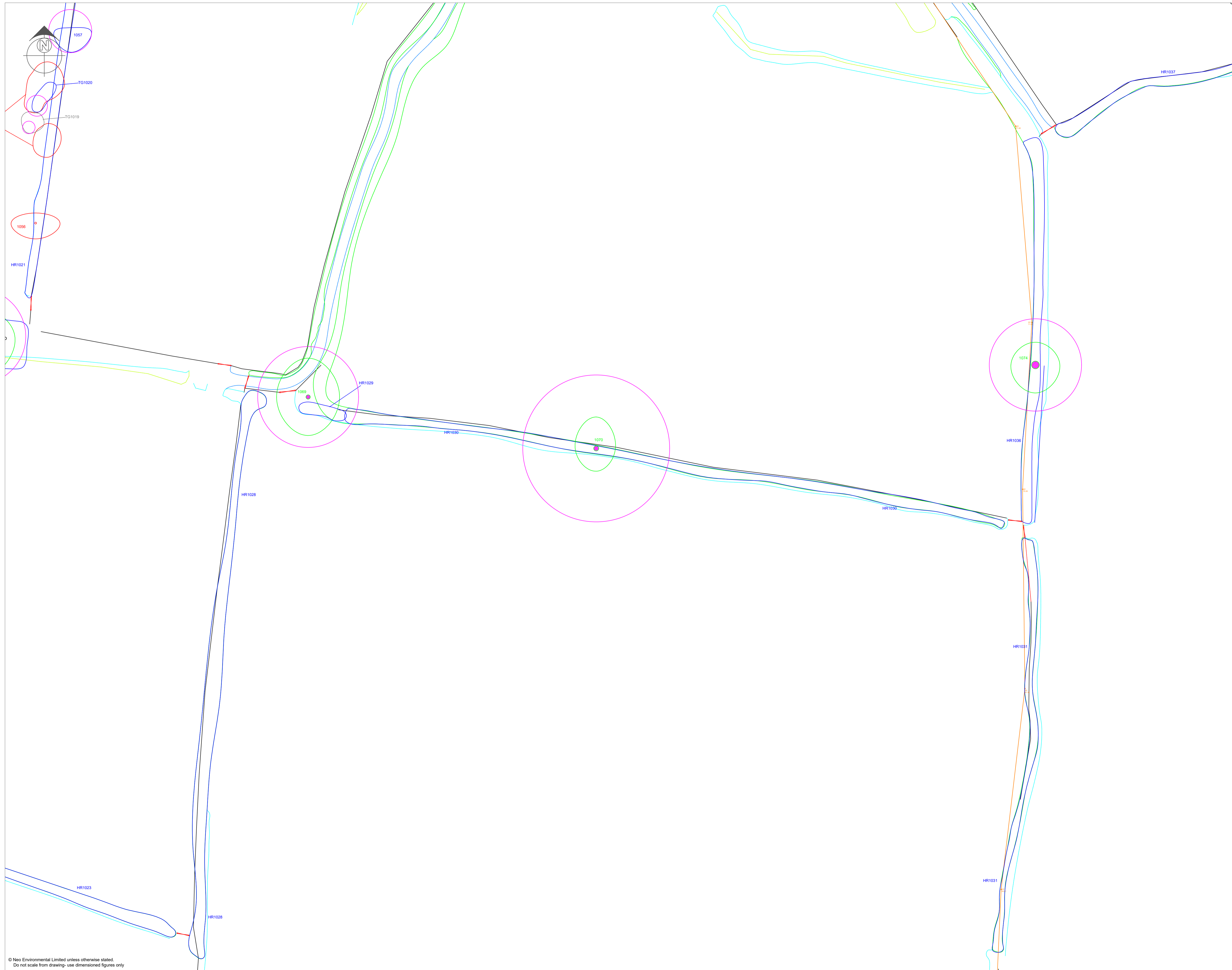
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**Project:** Penpergwym Solar Farm  
**Client:** Renewable Connection  
**Drawing:** Tree Survey Plan (Sheet 10)

**Project No.:** NEO00668  
**Drawing No.:** NEO00668\_0851\_A Figure 10A.1  
**Drawn:** JM **Checked:** MM **Approved:** PN

**Scale:** 1:500 @ A1 **Revision:**  
**Date:** 05 May 2021 **A**



### Key

- Notable, veteran or ancient trees ●
- Category A trees ○
- Category B trees ○
- Category C trees ○
- Category U trees ○
- Root Protection Areas ○
- Stumps, off-site trees outside development area ○

Tree groups, hedgerows and woodland groups are shown in outline, according to the colour scheme above.

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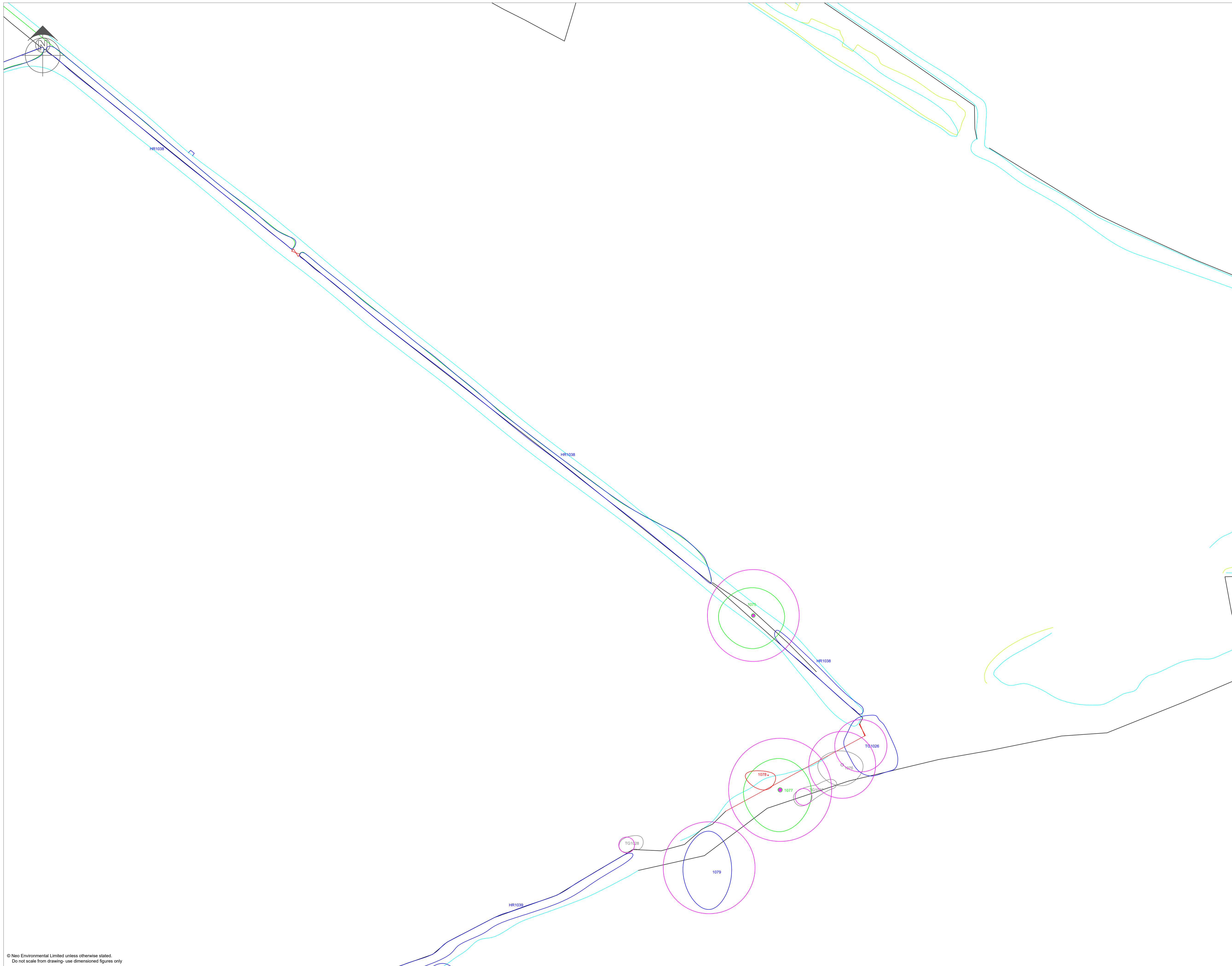
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**Project:** Penpergwym Solar Farm  
**Client:** Renewable Connection  
**Drawing:** Tree Survey Plan (Sheet 11)

**Project No.:** NEO00668  
**Drawing No.:** NEO00668\_0861\_A Figure 10A.1  
**Drawn:** JM **Checked:** MM **Approved:** PN

**Scale:** 1:500 @ A1 **Revision:**  
**Date:** 05 May 2021 **A**



### Key

- Notable, veteran or ancient trees ●
- Category A trees ○
- Category B trees ○
- Category C trees ○
- Category U trees ○
- Root Protection Areas ○
- Stumps, off-site trees outside development area ○

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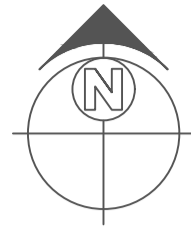
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**Project:** Penpergwm Solar Farm  
**Client:** Renewable Connection  
**Drawing:** Tree Survey Plan (Sheet 12)

**Project No.:** NEO00668  
**Drawing No.:** NEO00668\_0871\_A Figure 10A.1  
**Drawn:** JM **Checked:** MM **Approved:** PN

**Scale:** 1:500 @ A1 **Revision:**  
**Date:** 05 May 2021 **A**



### Key

- Notable, veteran or ancient trees ●
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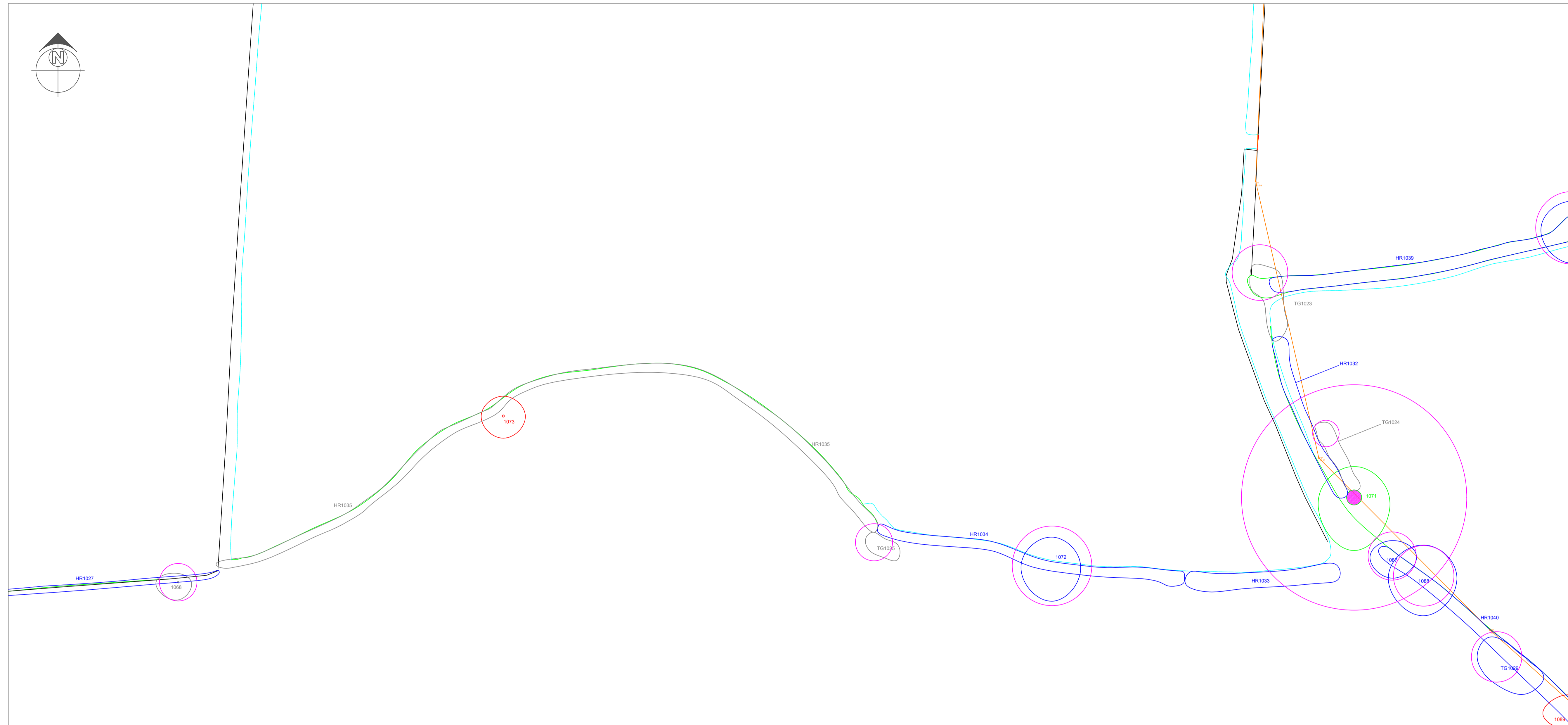
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**Project:** Penpergwm Solar Farm  
**Client:** Renewable Connection  
**Drawing:** Tree Survey Plan (Sheet 13)

**Project No.:** NEO00668  
**Drawing No.:** NEO00668\_0881\_A Figure 10A.1  
**Drawn:** JM **Checked:** MM **Approved:** PN

**Scale:** 1:500 @ A1 **Revision:**  
**Date:** 05 May 2021 **A**



### Key

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  - Category B trees ○
  - Category C trees ○
  - Category U trees ○
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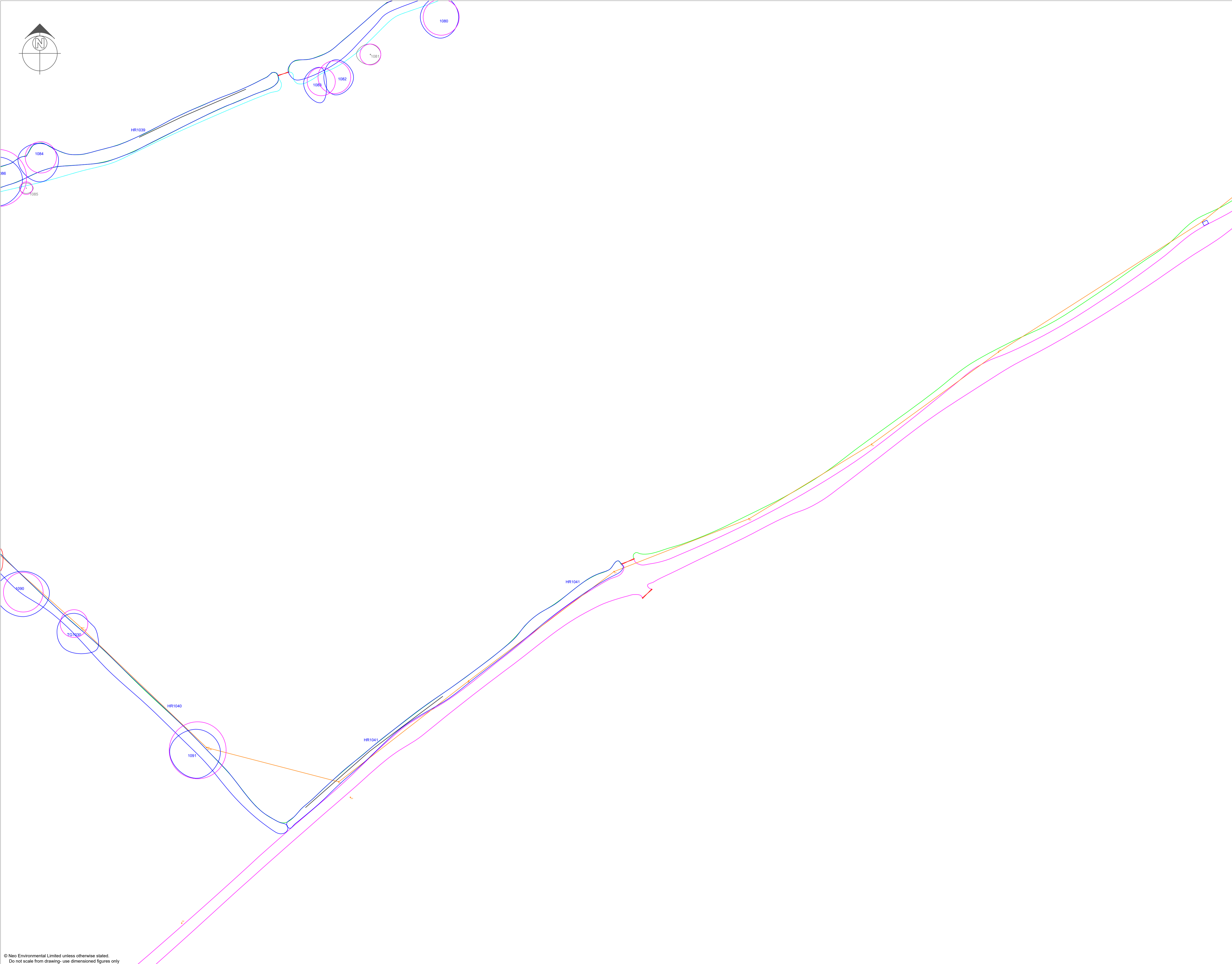
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**Project:** Penpergwm Solar Farm  
**Client:** Renewable Connection  
**Drawing:** Tree Survey Plan (Sheet 14)

**Project No.:** NEO00668  
**Drawing No.:** NEO00668\_0891\_A Figure 10A.1  
**Drawn:** JM **Checked:** MM **Approved:** PN

**Scale:** 1:500 @ A1 **Revision:**  
**Date:** 05 May 2021 **A**





### Key

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  - Category B trees ○
  - Category C trees ○
  - Category U trees ○
  - Root Protection Areas ○
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**Project:** Penpergwm Solar Farm  
**Client:** Renewable Connection  
**Drawing:** Tree Survey Plan (Sheet 15)

**Project No.:** NEO00668  
**Drawing No.:** NEO00668\_0901\_A Figure 10A.1  
**Drawn:** JM **Checked:** MM **Approved:** PN

**Scale:** 1:500 @ A1 **Revision:**  
**Date:** 05 May 2021 **A**



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