Land at Twynyrodyn, Merthyr Tydfil

Grid Reference SO05969 05665

Extended Phase I Habitat Survey/Preliminary Ecological Assessment Report

For Persimmon Homes

July 2022

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1 Introduction

1.1 Survey Brief

TerrAqua Ecological Services Ltd was commissioned by Persimmon Homes to undertake an Extended Phase I Habitat Survey/Preliminary Ecological Assessment of a parcel of land at Twynyrodyn, Merthyr Tydfil, Grid Reference SO05969 05665. The survey boundary was taken as that supplied by Mr Morgan Williams Planning Manager for Persimmon Homes.

The survey was undertaken in June 2022in order to evaluate any ecological issues that may be present within the site and allow for any ecological constraints to be considered during any future use of the site. The survey was also intended to update the results of the preliminary assessments of the site completed in 2019 and 2021 (TerrAqua, 2019).

1.2 Client Details

The survey was undertaken on behalf of Persimmon Homes, Persimmon House, Llantrisant Business Park, Rhondda Cynon Taf following instructions to proceed by Mr Morgan Williams, acting for Persimmon Homes.

2 Background

2.1 Rational

The survey was commissioned by the client prior to an application for the re-development of the site for residential use. This Extended Phase I Survey/Preliminary Ecological Appraisal will ascertain the ecological value of the site and identify any further ecological survey work required to complete a full appraisal and to ensure compliance with current legislation. All conclusions and recommendations made within this report are based solely on the information collected during the Extended Phase I Habitat survey and associated data search results.

An ecological assessment of the site was completed in 2019 and repeated in 2021.The assessments included a Phase I Habitat Survey/Preliminary Ecological Assessment, Reptile Survey, Invertebrate Survey and a survey of Bat Activity across the site. The results of these surveys were presented in the following reports:

TerrAqua Ecological Services (2019). Land at Twynyrodyn Merthyr Tydfil Extended Phase I Habitat Survey/Preliminary Ecological Assessment. Persimmon Homes.

TerrAqua Ecological Services (2019). Land at Twynyrodyn Merthyr Tydfil Reptile Survey Report. Persimmon Homes.

TerrAqua Ecological Services (2019). Land at Twynyrodyn Merthyr Tydfil Bat Activity Survey Report. Persimmon Homes.

TerrAqua Ecological Services (2019). Land at Twynyrodyn Merthyr Tydfil Invertebrate Survey Report. Persimmon Homes.

TerrAqua Ecological Services (2021). Land at Twynyrodyn Merthyr Tydfil Extended Phase I Habitat Survey/Preliminary Ecological Assessment. Persimmon Homes.

As a period exceeding two years has elapsed since these surveys were completed and based on the potential for the ecological value of site to change over time a new suite of surveys has been undertaken during 2022. This includes:

TerrAqua Ecological Services (2022). Land at Twynyrodyn Merthyr Tydfil Extended Phase I Habitat Survey/Preliminary Ecological Assessment. Persimmon Homes.

TerrAqua Ecological Services (2022). Land at Twynyrodyn Merthyr Tydfil Reptile Survey Report. Persimmon Homes.

TerrAqua Ecological Services (2022). Land at Twynyrodyn Merthyr Tydfil Bat Activity Survey Report. Persimmon Homes.

TerrAqua Ecological Services (2022). Land at Twynyrodyn Merthyr Tydfil Invertebrate Survey Report. Persimmon Homes.

2.2 Site Description

The site is site located within a residential area of the village of Twynyrodyn, Merthyr Tydfil. The site includes an area of reclaimed and reprofiled land of former industrial use. The site includes areas of tussocky grassland with patches of bare earth, occasional heather and during wet periods pockets of shallow standing water, plantation woodland and scrub. The woodland and scrub habitats extend beyond the boundaries of the site with extensive countryside to the south. The site has a slightly sloping southern aspect. The site also includes an area of highly managed amenity grassland associated with the adjacent play areas and housing development.

2.3 National Designations

The site, or any part of, is not covered by any statutory national or international conservation designation such as SAC, SPA or SSSI.

The site lies approximately:
1.25km east of Cwm Gloa Glyndys and CWN Glo SSSI.
3.1km south east of Cwm Taf Fechan Woodlands SSSI
4.6 km north east of Caeau Nant y Groes SSSI

2.4 Local Designations

A large number of locally designated Sites of Interest to Nature Conservation (SINC), are located within a 2km radius of the site. These include:

Glynmil 448m west
Merthyr Common South 900m west
Cwm Glo 1438m
Merthyr Common Central 1km north east
Afon Taf 800m west
Rhydycar West 1.2 km south west
Abercanaid Fields 2km south
Pentrebach Fields 1.75km south east
Pentrebach Tip 1.75km south

3 Methodologies

The survey methodologies as used to assess the site are outlined below. These are accepted by both local authority and conservation bodies as the standard ecological assessment methodologies.

The survey was undertaken within the site boundaries as supplied by Persimmon Homes East Wales.

3.1 Survey Dates and Personnel

The survey was undertaken in June 2022 by Carmen Jones MSc MCIEEM Senior Ecological Consultant and Dyfrig Jones BSc Senior Ecological Consultant. Both highly experienced ecologists with extensive experience in both ecological assessment and species-specific issues.

3.2 Extended Phase I Ecological Assessment

The walkover survey consists of an assessment of the habitats present and was undertaken following the methodology as set out in the Handbook for Phase I Habitat Survey and extended to cover faunal species and their habitats according to Chartered Institute of Ecology and Environmental Management (2018) Guidelines for Ecological Impact Assessment in the UK and Ireland CIEEM. Identified habitats were mapped using Pear Technology PT- Mapper Software and target notes (TN) taken where appropriate for any additional features noted. The habitats mapped and target note locations are shown in Appendix II.

In addition, as part of the extended phase I survey, a record was made of all mammals, birds, amphibian, reptile and invertebrate fauna for which a sighting or evidence of activity was observed as well as the identification of habitats present considered suitable to support both internationally and nationally protected species, or any species considered to be rare or of local significance.

3.3 Data Search

A desk top data search was undertaken for any records of species and/or habitats within the survey boundary. The data search was also extended to include a search for records within a 1.5 km radius of the survey centre of species or habitats, including protected and designated sites, which could be affected by the proposals for the site.

The data search included a search of records as held by the National Biodiversity Network online Gateway and a full data search undertaken by the South East Wales Biodiversity Record Centre (SEWBReC) **LERC Reference: 0212-748.**

3.4 Survey Limitations

The Phase I methodology is not intended to produce comprehensive species lists of fauna and flora and therefore the species lists should be considered representative but not totally inclusive. In particular mammal, invertebrate and bird species are likely to be under recorded during a single walkover survey.

The Phase I Survey/preliminary ecological assessment was undertaken in Jun 2022 inside the optimal survey period for the identification of grassland flora. As a result, the survey results are considered an accurate reflection of the grassland communities. All other surveys referred to within the report have also been completed within the optimal survey periods.

The Phase I Habitat Survey does not set out to identify all non-native or native invasive plant species such as Japanese Knotweed. These species may be recorded during the course of the survey; however, the absence of records for such species should not be taken as a statement that such species are not present within the survey area. If the presence of such species is of primary significance for any future use of the site, then further detailed vegetation surveys to identify and map any such plants should be undertaken.

4 Results Extended Phase I Survey

4.1 Habitats

The large site provides a mixed mosaic of habitats including unimproved grassland, heathland, broadleaf woodland and areas of dense scrub. Dry ditches are also present notably along the western side of the site.

4.1.1 Unimproved Grass

Areas of unimproved grassland represent the dominant habitat type across the main body of the site. The grasslands include a mosaic of habits that include very small areas of wet heath, dry heath and bare earth. The grasslands can be divided into two separate areas.

Area (1)
The grasslands have a dense tussocky sward reaching a height of between 10cm-50cm in height. All of the grassland areas are abandoned and have remained unmanaged for a number of years. The grasslands are currently used as informal recreation areas and are frequented by dog walkers with evidence of use by off road motorcycles also present. The swards have been assessed as roughly representing an NVC MG6 grassland or sub community thereof, although the nature of the underlying soils, reclaimed and backfilled from previous industrial (coal) activities, means vegetation types/communities occur as a mosaic according to degree of water retention and nutrient levels which is variable throughout the grassland. Due to the historic reprofiling of the grassland area some drier and wetter patches occur throughout the grassland

creating a mosaic of habitats, some areas of which show a higher degree of floristic diversity. All areas of the site were dry during the 2022 survey. Ant hills are a common feature of the grasslands indicating a lack of agricultural management or ground disturbance for a significant number of years. These ant hills have developed within the past 20yrs and since the reclamation and reprofiling of the site.

Grass species recorded within the sward include yorkshire fog (*Holcus lanatus*), false oat (*Arrhenatherum elatius*), cocksfoot (*Dactylis glomerata*), tufted hair grass (*Deschampsia cespitosa*), sheeps fescue (*Festuca ovina*), crested dogs tail (*Cynasaurus crystatus*), sweet vernal (*Anthoxanthum oderatum*), perennial rye (*Lolium perenne*), red fescue (*Festuca rubra*), creeping bent (*Agrostis stonifera*), common bent (*Agrostis tenuis*), purple moor grass (*Molinia caerulea*), rough meadow (*Poa trivialis*), red fescue (*Festuca rubra*), and annual meadow (*Poa annua*).

Other species recorded include remote sedge (*Carex remota*), common sedge (*Carex nigra*), common dock (*Rumex obtusifolius*), greater willowherb (*Epilobium hirsutum*), soft rush (*Juncus effusus*), hard rush (*Juncus inflexus*), red clover (*Trifolium pratense*), white clover (*Trifolium repens*), creeping buttercup (*Ranunculus repens*), meadow buttercup (*Ranunculus acris*), creeping thistle (*Cirsium arvense*), meadow thistle (*Cirsium dissectum*), field wood rush (*Luzula campestris*), wood rush (*Luzula multiflora*), common sorrel (*Rumex acetosa*), sheeps sorrel (*Rumex acetosella*), dandelion (*Taraxacum sect-ruderalia*), hawkbit (*Leontodon sp*), tufted vetch (*Vicia sativa*), common vetch (*Vicia cracca*), shepherds purse (*Capsella bursa-pastoris*), common mouse ear (*Cerastium fontanum*), silverweed (*Potentilla anserina*), tormentil (*Potentilla erecta*), major plantain (*Plantago major*), ribwort plantain (*Plantago lanceolata*), mayweed, cuckooflower (*Cardamine pratensis*), common knapweed (*Centaurea nigra*), mayweed (*Tripleurospernum indorum*), black medic (*Medicago lupulina*), hop trefoil (*Trifolium campestre*), birds foot trefoil (*Lotus corniculatus*), creeping cinqfoil (*Potentilla reptans*), tormentil (*Potentilla erects*), silverweed (*Potentilla anserina*), fox and cubs (*Pilosella aurantica*), pignut (*Conopodium majus*), yarrow (*Achillea millefolium*), meadow vetchling (*Lathyrus pratensis*), heath bedstraw (*Galium saxatile*), fat hen (*Chenopodium album*),, field rose (*Rosa arvensis*), common cleavers (*Galium aparine*), common spotted orchid (*Dactyarhiza fuschii*), early purple orchid (*Ochis mascula*), and teasel (*Dipsacus fullonum*). Two individual grass vetchling (*Lathyrus nissolia*) were also recorded.

Individual orchids were occasional within the grassland. Grass vetchling was confined to two individual plants.

Sphagnum palustre is common in wetter areas along with occasional pockets of *Cladonia* sp in low lying areas. Occasional stands of heather (*Calluna vulgaris*), and cross leaved heath (*Erica tetralix*) are present within the main grassland areas (TN4).

Plate 1 grassland F1 (part)

Plate 2 grassland F1 (part)

Area (2)

Tussocky grassland with sward height of between 20-50cm. The species composition of the grassland area is similar to Area (1) with an increased percentage of Molinia, and hard and soft rush reflecting the wetter nature of some areas of the grassland. Other species present, within drier areas, include abundant creeping thistle, common dock, creeping buttercup, common knapweed, common vetch, creeping cinqfoil, yellow vetchling, common sorrel, common dock, field bindweed, occasional ox ye daisy, meadowsweet (*Filipendula ulmaria*), birds foot trefoil, forget me not (*Myostis arvensis*), wild strawberry (*Fragaria vesca*), occasional cut leaved cranesbill (*Geranium dissectum*), and tormentil.

A small number of bee orchid (*Ophrys apifera*) were recorded at a single location within F2 grassland (TN5).

This area has a south westerly slope with wetter areas located at the bottom of the grassland. Low growing bramble has encroached into some areas of the grassland along with naturally regenerating hawthorn (*Crataegus monogyna*), willow (*Salix*) sp and ash saplings. Field and dog rose are also present within the scattered scrub.

Plate 3 grassland f2

Plate 4 Bee Orchid within F2

4.1.2 **Amenity Grassland**

Two areas of amenity grassland lie within the site boundary. These include a small area of verge with associated planted trees adjacent to Aneurin Crescent and a larger are encompassing a children's play area at the north eastern corner of the site off Elm Tree Grove.

These areas of grassland are intensively managed by mowing during summer months and as a result have a low sward height. The dominant species present include perennial rye, red fescue, annual meadow grass, timothy, sheeps fescue and common bent. Other species are confined to those able to tolerate the intensive effects of mowing such as daisy and meadow buttercup.

Plate 5 Amenity Grassland (1) *2019 photo*

Plate 6 Amenity Grassland (2) *2019 photo*

4.1.3 **Broadleaf Woodland**

Broadleaf woodland in the form of young planted woodlands occur around the periphery of the site. These woodlands are of a single cohort but vary in species composition and extent of ground and field flora. The plantation woodlands form a buffer between the open grasslands and adjacent housing developments.

Woodland W1
Area of immature broadleaf woodland. Species present include ash (*Fraxinus excelsior*), oak (*Quercus rober*), silver birch (*Betula pendula*), hairy birch (*Betula hirsutum*), cherry (*Prunus padus*), spindle (*Euonymus europaea*), dogwood (*Cornus sanguinea*), grey willow (*Salix cinerea*), goat willow (*Salix caprea*), and alder (*Alnus glutinosa*). Occasional individual Corsican pine (*Pinus nigra*) and European Larch (*Larix decidua*) are also present.

Both field and ground layers are poor and dominated by low growing bramble (*Rubus sp*), bracken (*Pteridium aqualinum*), nettle (*Urtica dioica*), and ivy (*Hedera helix*). Moss species are common in more open areas.

Plate 5 woodland W1 *2021 photo*

Woodland W2

Immature planted broadleaf woodland. Species present include ash, oak, silver birch, cherry, goat willow, alder, and holly (*Ilex aquifolium*). Gorse (*Ulex europea*) is present as a field layer within some sections of woodland. Both field and ground layers are impoverished with large areas of bare earth with leaf litter and ivy cover.

Plate 6 woodland W2 *2021 photo*

Woodland W3

Immature woodland with a similar species composition to W1. Occasional stands of non-native Leylandii and individual Sitka spruce (*Picea stichensis*) trees are also present within the woodland.

Both field and ground layers are impoverished with low growing bramble the dominant field layer species. The ground layer comprises a mix of bare earth, leaf litter and ivy cover.

Woodland W4

Immature broadleaf woodland Specie composition that of W1 with occasional Corsican pine and European larch also present. Low growing bramble and gorse are the dominant species

within the field layer. The ground flora is poor and dominated by ivy with large areas of leaf litter and moss.

Plate 7 woodland W4 *2021 photo*

Woodland W5
Immature broadleaf woodland with a mix of dense scrub. Species present include ash oak silver birch, hairy birch, cherry, spindle, dogwood, grey willow, goat willow, and alder. Other species present include dog rose (*Rosa canina*), Corsican pine, gorse, and European larch. Holly occurs frequently throughout the woodland.

The ground and field layers are general poor with low growing bramble and gorse dominating the field layer and large areas of leaf litter occurring throughout the ground layer.

Plate 8 woodland W5 *2021 photo*

4.1.4 Scrub

Scrub is a common feature of the peripheral site habitats, forming a mosaic with the woodlands and grassland habitats.

Scrub 1

Area of dense scrub with a mosaic of more open grassland areas located along the western boundary of the site. Dominant species include gorse, bramble, dog rose, field rose (*Rosa arvense*) and ash saplings with a mix of tall herbs including greater willowherb and stinging nettle.

Plate 9 scrub area 1

Scrub 2
Area of dense bramble scrub located at the north western corner of the site. Other species present include occasional gorse, goat willow, grey willow non-native privet.

Plate 10 scrub area 2

Scrub 3
Large area of dense scrub with a mix of bramble with occasional gorse, hawthorn, dog rose, and willow species. The scrub area forms a boundary between woodland W5 and the adjacent track and housing development.

Plate 11 scrub area 3

4.1.5 Dry Ditch/Watercourse

Two drainage ditches run through the western side of the site. Both ditches are culverted in places. At the time of survey, the larger southern ditch ditches was dry, while the northern section contained some standing water. No true in channel or aquatic vegetation is present within either ditch although some juncus, grass and willow saplings have encroached into the main channel. Based on the vegetation present it is likely that both ditches remain dry for a considerable part of the year, the ditches were dry during the June 2022 survey. Vegetation on both banks is dominated by common grass species typical of the surrounding grasslands, silverweed and scattered scrub along some of the bank tops.

Plate 12 ditch (2)

4.1.6 Non-Native

Stands of highly invasive Japanese Knotweed (*Fallopia japonica*) were recorded within the site boundary and immediately adjacent areas along the eastern boundary (TN3). The knotweed was generally confined to the woodland and scrub areas and was not recorded within the open grassland. Horsetails were also recorded within the scrub adjacent to the knotweed stand.

Plate 13 stand of non –native Japanese Knotweed (TN3)

Table 1 showing target notes and feature descriptions as shown on map (appendix II)

Target Note	Description
TN1	Group of immature trees located within amenity grassland area, oak, ash birch, maple
TN2	Patch of dense gorse scrub, good reptile habitat
TN3	Large stand of Invasive Japanese Knotweed
TN4	Area of heather, Sphagnum and Cladonia sp within low lying areas of grassland
TN5	Bee orchids within F2

4.2 Data Search Results

4.2.1 Designations

No part of the site or immediately adjacent habitat is afforded a statutory designation as a result if its importance to nature conservation. The site lies some 1.25km east of Cwm Gloa Glyndys and CWN Glo SSSI.

A large number of locally designated sites of Interest to Nature Conservation Reserves lie within a 2km radius of the site.

4.2.1 Protected Species

No records were found relating to WCA Protected Species within the survey area or immediately adjacent habitats.

Records were found confirming the presence, or historic presence, of protected and priority species within a 2km radius of the site (Appendix III). Records for a WCA Schedule 1 protected species within 2km of the site included:

Common Pipistrelle (Roost) within 400m with further common pipistrelle roosts located within 800m
Soprano pipistrelle roost within 1km
Brown Long eared night roost within 1.5km
Lesser Horseshoe Day roost within 1.5km
Great Crested Newt within 800m
Barn Owl (*Tyto alba*) within 450m
Red Kite within 600m
Peregrine Falcon within 600m
Goshawk within 600m
Otter within 900m
Badger within 1km
Little Ringed Plover within 2km

A large number of records were also found relating to species listed in the Environment (Wales) Act 2016 as a Species of Principle Importance for maintaining and enhancing Biodiversity in relation to Wales (Interim List) including birds, invertebrates, mammals, reptile and amphibian species. None of which were specific to the survey area.

5 Ecological Evaluation

5.1 Habitats

For reporting purposes, the ecological value of a habitat/site is based upon the following criteria:

- Currently supports, or has the potential to support protected, nationally or locally scarce species
- Supports a species listed in the Environment (Wales) Act 2016 as a Species of Principle Importance for maintaining and enhancing Biodiversity in relation to Wales
- Is listed in the Environment (Wales) Act 2016 as a Habitat of Principle Importance for maintaining and enhancing Biodiversity in relation to Wales
- Habitat has a high intrinsic value supporting a diverse range of species
- Is a UK BAP Habitat
- Local BAP Habitats with an ecological interest or cover a significant area of the site
- Natural habitats located within built up and/or urban areas

Habitats recorded within the survey area and extent of each is shown in table 2:

Table 2 Showing Approximate Extent of Habitats Present (Ha)

Habitat	Phase I Nomenclature	Area Ha (approx.)
Unimproved Grassland	B1	1.57
Broadleaf Woodland	A1	1.62
Scrub	A2	0.02
Watercourse/Ditch	G2	473m (some culverted)

5.1.1 Unimproved Grasslands

Unimproved neutral, acidic and calcareous grasslands can be very diverse and as such these grassland types are listed in the Environment (Wales) Act 2016 as a Habitat of Principle Importance for maintaining and enhancing Biodiversity in relation to Wales (Interim List)

The grasslands within the survey area a have relatively moderate diversity of grasses and herbs and represent a mosaic of neutral, calcareous and acidic plant communities. The communities vary within the mosaic according to the degree of water retention and the underlying substrates. Those present are generally species common to the surrounding areas, with floristic diversity varying across the grasslands according to nutrient levels and soil depths. Large areas of the site are dominated by grass species with low herb diversity while others contain a higher percentage of herbs and in these areas species diversity is greater. The wetter, low lying areas of the site have a higher percentage of Juncus species than those found in the higher and drier areas of the site. Small pockets of heather, Cladonia sp and sphagnum also occur on more open/bare patches within grassland 1. Significant numbers of ant hills are present within the site indicating that the grasslands have not been subject to ploughing or ground disturbance for a considerable period (maximum 20yrs), although evidence of historic earth movements including large scale restoration and backfilling of coal waste into the main site is present. Land reclamation is also likely to have included the addition of fertilisers and possibly top soils. Subsequent leaching of these fertilisers may account for the differing plant communities within the main grassland areas.

No rare or uncommon species were recorded within any of the grassland communities during the November (2022) survey. However, changes were observed within the sward compared to those recorded within the Preliminary Ecological Assessment/Phase I survey of 2019 (TerrAqua, 2019) including a more diverse mosaic of wet and dry grassland habitats including small patches of heather and Cladonia sp. The 2022 surveys highlight a higher degree of floristic diversity than that recorded in 2019 and 2021 both previous surveys having been undertaken outside the optimal window for vegetation surveys.

None of the plant species recorded are species listed in the Environment (Wales) Act 2016 as a Species of Principle Importance for maintaining and enhancing Biodiversity in relation to Wales.

Based on The South Wales Wildlife Sites Partnership (2004). *Guidelines for the Selection of Wildlife Sites in South Wales.* a total of thirteen species indicative of neutral grassland were recorded. However, the distribution of such species was irregular with some appearing frequently within the swards and others confined to individual plants occurring rarely. Similarly, a total of nine species indicative of calcareous grassland and six species indicative of acid grasslands. The following table shows the abundance of the twelve species throughout the grassland:

Table 3 Neutral Grassland Indicator Species and relative abundance

Neutral Grassland Indicator Species	Abundance (DAFORN)
Early Purple Orchid	R
Common Knapweed	F
Pignut	O
Meadow Vetchling	R
Grass Vetchling	R
Ox Eye	R
Cuckoo Flower	R
Tormentil	F
Red Clover	F
Tufted Vetch	F
Field Woodrush	O
Meadow thistle	O
Common Birds Foot Trefoil	F

A total of Nine species indicative of Calcareous grasslands were recorded as shown in table 4:

Table 4 Calcareous Grassland Indicator Species and relative abundance

Neutral Grassland Indicator Species	Abundance (DAFORN)
Early Purple Orchid	R
Common Knapweed	F
Wild Carrot	R
Sheeps Fescue	F
Grass Vetchling	R
Black Medic	O
Hop Trefoil	O
Bee Orchid	R
Common Birds Foot Trefoil	F

A total of six species indicative of acid grasslands were recorded:

Table 5 Acid Grassland Indicator Species and relative abundance

Neutral Grassland Indicator Species	Abundance (DAFORN)
Sheeps Sorrel	F
Sheeps Fescue	F
Pignut	O
Tormentil	F
Meadow thistle	O
Heath Bedstraw	O

5.1.2 Broadleaf Woodland

Five areas of immature deciduous woodland are located within the site boundary. Broadleaf semi natural woodland is listed as a Habitat of Principle Importance for maintaining and enhancing Biodiversity in relation to Wales and is a UK BAP habitat. Broadleaf woodland is recognised as having significant value to a range of invertebrate and small mammal species. All trees have a value to both feeding and nesting birds as well as a wide range of invertebrate species.

The woodlands within the site are primarily located around the periphery of the site and represent young plantation woodlands created as a buffer to the adjacent housing developments during historic reclamation and site reprofiling. All woodland blocks have poor field and ground layers. None of the trees within the woodland blocks are mature and none show any characteristics associated with the potential for use by roosting bats. The woodland s do provide a buffer between the open grasslands and the surrounding residential developments and may provide limited opportunities for commuting bats. The woodlands taken as a single habitat are likely to support a wide range of common bird species both resident and migrant species. The woodlands also affords potential habitats for small mammals such as hedgehog, reptile species and the terrestrial life stages of amphibians such as frogs and toads.

The woodlands are considered to be of a moderate ecological value at a site level based on the age and composition of the woodlands.

5.1.3 Scrub

Bramble and gorse scrub is a common feature around the periphery of the site with occasional gorse patches also extending into the open grassland and forming a mosaic with bramble along the western edge of the site. The dense scrub is likely to be used as a food source by wintering birds and as a nesting site for common bird species. The scrub also offers potential habitat for small mammals such as hedgehog and as natural refuga and hibernation sites for reptile species, the terrestrial life stages of amphibian species, as well as potentially supporting a number of common invertebrates. There has been no significant increase in scrub since the initial surveys

of 2019. Based on its potential value birds, invertebrates and reptiles the scrub is considered to be of moderate ecological value at a site level.

5.1.4 Watercourse/Ditch

The ditch system is generally dry although the presence of culverts and drains suggests that these ditches do carry water during periods of heavy rainfall. In general terms the dry ditch is considered to be of limited ecological value, however these ephemeral water bodies do have the potential to be used by common amphibian species such as common frog if water is present during the breeding season. Although due to the limited time period over which water is likely to remain within the ditches their value to amphibians is considered very limited. The ditches are unsuitable for use by the WCA protected Great Crested Newt.

Overall, the ditches and dry watercourses are considered to have a low ecological value at a site level.

5.2 Fauna

5.2.1 Mammals

5.2.1.1 Badger

No evidence of badger activity was recorded during the Phase I survey although records of a badger presence within 2km of the site were found during the data search. The woodland habitats present have limited ground and field vegetation making the concealment of a set difficult. No other habitats are present within the site suitable for use as an undisturbed set location. Based on the habitats present and the lack of obvious field signs it is considered unlikely that badger are present within the site or that badger use the site for foraging or commuting on a regular basis. It is considered highly unlikely that any future development of the site will have a significant impact on badger and no further survey work is necessary.

5.2.1.2 Bats

No structures suitable for use by roosting bats are present within the site boundary.

The trees recorded within the woodland blocks are relatively young and have been assessed as Category 3 Trees using the scoring system as per Bat Conservation Trust Guidelines for assessing suitability of trees for bats. These will be trees of an age and structure that makes them unsuitable for use by roosting bats. Due to the negligible potential for use by bats these trees do not require further survey work.

A large number of bat roosts, primarily those of pipistrelle species are known to be present within a 2km radius of the site including common pipistrelle roosts within 300m of the site

boundary. Brown long eared and lesser horseshoe bats are known to roost within 1.5km. Bats can and do travel considerable distances between roosting sites and feeding areas.

The location of the site adjacent to housing developments and with extensive areas of open countryside and mature broadleaf woodlands to the south means that there is the potential for the grassland and peripheral woodland blocks to be uses as foraging areas and commuting routes. The Bat Conservation Trust Guidelines for Professional Ecologists (Collins.J,(ed) 2016) sets out guidelines for the potential suitability of development sites based on habitat features present within the landscape (applied through professional judgement). Based on the criteria within table 4.1 of these guidelines the site is assessed as being to of Moderate potential for use by commuting and foraging Bats.

Surveys undertaken in 2019 confirmed the use of the site by small numbers of individual bats. Updated surveys undertaken between May and June 2022 also confirms the use of the site by small numbers of bats. **TerrAqua Ecological Services (2022). Land at Twynyrodyn Merthyr Tydfil Bat Activity Survey Report. Persimmon Homes.** The 2022 survey identified five species of bats utilising the site including common pipistrelle, noctule, soprano pipistrelle and Nathusius pipistrelle. Common pipistrelle and noctule were the most common species recorded and present on all survey nights. Soprano pipistrelle were also recorded in small numbers in all transect visits. Brown long eared and Nathusius pipistrelle were detected on static recorders along the eastern boundary. These species only occurred intermittently over the survey period.

Based on the results of the activity survey it is likely that the proposed development will lead to the loss of bat foraging habit used by a small number of relatively common species. The eastern and southern boundaries of the site appear to be favoured by bats and where possible peripheral habitats should be retained. An appropriate lighting scheme will also be required designed to retain dark corridors for bats along the southern and eastern boundaries.

5.2.1.3 Dormouse

None of the woodlands within the site have the structure and species diversity associated with use by dormouse. No records of dormouse were found for any location within a 1.5km radius of the site boundary. Based on the habitats present and the data search results it is considered highly unlikely that dormouse are present within the site. It is also considered highly unlikely that future development of the site will have a negative impact on dormouse or affect the conservation status of the species within the local area.

5.2.1.4 Otter

Otter are present on the watercourses within a 1km radius of the site. None of the ditches present within the survey area are suitable for use by otter being generally dry and lacking bankside cover. As such it is considered unlikely that otter will regularly visit the site or use

the dry ditches as regular commuting or foraging areas. As a result, any proposed development of the site is unlikely to cause disturbance to otter at a local level or have an impact on the conservation status of the species. No further survey work regarding this species is considered necessary

5.3 Reptiles

All habitats within the site have a high potential for use by reptiles as foraging areas and afford excellent refuge areas including areas suitable for hibernation. These include the woodland, grasslands, dry channels and scrub. The peripheral areas of the bare sparse grassland has the potential for use as basking areas for reptiles. The extensive areas suitable for reptiles, combined with the potential for use by different reptile species, means that the full ecological value of the site with regard to reptiles can only be ascertained following a full reptile survey of the site. A reptile survey of the site was completed in 2019 and updated in April/May 2022. The results of both surveys confirm the presence of a slow worm within the site. The results of the 2022 survey **TerrAqua Ecological Services (2022). Land at Twynyrodyn Merthyr Tydfil Reptile Survey Report. Persimmon Homes.** indicated that a good population of this species is present within the site. The survey also recorded a presence of common lizard, confined to a single animal observed just outside the survey boundary. Preliminary site layout designs would suggest that almost all suitable reptile habitat will be lost or temporarily disturbed by the proposed development. In consequence a detailed mitigation strategy for the protection of reptiles both during and after construction will be required before works commence. An ecological enhancement plan and reptile mitigation strategy has been produced detailing the mitigation strategy **(TerrAqua Biodiversity Enhancement Scheme and Reptile Mitigation Strategy for Persimmon Homes. July 2022).**

5.4 Amphibians

At present all ditches are dry however in periods of heavy rainfall water may be retained within the ditches for a short period and under these occasional events they do have limited potential to be used as a breeding site for species such as common frog and small common newt species. The ditches are unsuitable for use by great crested newt, as a result it is considered highly unlikely that great created newt are present within the site boundary.

The woodlands, grassland and scrub all provide potential refuge and hibernation sites for common amphibian species during their terrestrial life stages.

Two common toads were recorded beneath refuga during the reptile survey of the site (TerrAqua, 2022). No other amphibian species were recorded.

Overall, the site is considered to be of low to moderate ecological value with specific regard to amphibian species.

5.5 Birds

The woodlands, grassland and scrub affords excellent feeding opportunities for resident, summer migrant and winter migrant species. The site also offers potential nest sites for a wide range of bird species including those recorded during the walkover survey such as blackbird (*Turdus merula*), house sparrow (*Passer domesticus*), starling (*Sturnus vulgaris*), great tit (*Parus major*), long tailed tit (*Aegithalos caudatus*), blue tit (*Parus caeruleus*), chaffinch (*Fringilla coelebs*), wren (*Troglodytes troglodytes*), robin (*Erithacus rubecula*), song thrush (*Turdus philomelos*), wood pigeon (*Columba palumbus*),bullfinch (*Pyrrhula pyrrhula*), magpie (*Pica pica*), and carrion crow (*Corvus corone*).

The nature and location of the site is such that it is unlikely to support any Schedule 1 bird species. A number of Schedule I species have been recorded within 500m of the site including barn owl (*Tyto alba*) red kite (*Milvus milvus*), Goshawk (*Accipiter gentilis*), and Peregrine Falcon (*Falco peregrinus*), however no suitable breeding habitat for any of these species is present within the site boundary. Little ringed plover (*Charadrius dubius*) have been recorded within 2km of the site however the lack of suitable habitat and the degree of disturbance by dog walkers and other casual recreational use, as observed during the walkover survey, precludes the use of the site by this sensitive species. The high level of use by dog walkers also limits the value of the site to more common ground nesting species such as skylark and meadow pipit.

Overall, the site is likely to be of moderate to high value to common bird species at a site and local level.

5.6 Invertebrates

The diversity and structure of the habitats present means that the site is likely to support a very wide range of invertebrate species. No records for any invertebrate species was found relating directly to the site. Surveys undertaken between May and July 2019 (TerrAqua, 2019) identified a total of ninety-three (93) invertebrate species, while an update invertebrate survey completed between April and June 2022 recorded a total of ninety-nine (99) species (**TerrAqua Ecological Services (2022). Land at Twynyrodyn Merthyr Tydfil Invertebrate Survey Report)**. These surveys were confined to species active during the day and no night moth surveys were undertaken. The 2022 invertebrate survey concluded that:

Most species recorded can be considered relatively common and occur in wide range of habitat types.

- Of the ninety-nine species recorded none are currently afforded full protection under the Wildlife and Countryside Act 1981 (as amended)

- Two of the recorded species are Species of Principle Importance for maintaining and enhancing Biodiversity in relation to Wales These are cinnabar (*Tyria jacobaeae*), and Small Heath (*Coenonympha pamphilus*)

- No species recorded on the site has a current Merthyr Local Biodiversity Action Plan (LBAP) Species Action Plan (SAP) in place

And that the value of the site with regard to invertebrate species is generally confined to those species with a wide tolerance of habitat types.

Overall, the site is considered to be of moderate value to invertebrates at both a site and local level supporting a wide range of relatively common species. The site does not support a population of fully protected or nationally rare species.

Proposals for the development of the site will lead to the loss of habitats associated with use by invertebrate species including butterflies and moths. Appropriate landscaping post development will reduce the impact on such species providing floristically rich grasslands and native scrub on completion of the development: **Drawing Twynyrodyn Detailed Landscape Proposals TDA.2539.01 March 2020 & Drawing Ecological Enhancement Plan TQ/pers:Twyn. Enhancement Plan.2022 v1**

6 Conclusions

The site is not covered by any National or International designation with regard to its importance for wildlife conservation.

The site lies within 2km of nine (9) locally designated sites of interest to nature conservation. None of these sites lie immediately adjacent to the proposed development site.

Based on the current proposals for the site development all grassland and woodland areas with the exception of the area of amenity grassland at the northern end of the site and potentially some of woodland W1 will be lost or significantly affected by the proposed development. In total

The grassland areas have been assessed as representing unimproved grasslands with a mosaic of dry and wet grassland communities occurring over a reprofiled and reclaimed former industrial landscape. The communities do not appear to represent highly diverse sward types however an overview of the grassland indicate that a total of thirteen species indicative of neutral grassland are present within the sward. The distribution of these species is uneven with some species only occurring rarely as individual plants while others are more abundant. See tables 3-5. The grassland also include nine species indicative of calcareous grassland and six of acidic sward. All of the grassland will be affected and lost by the proposals for the site.

Proposed ecological enhancements during soft landscaping will result in the creation of new wildflower grasslands as shown in drawing **Drawing Twynyrodyn Detailed Landscape Proposals TDA.2539.01 March 2020 & Drawing Ecological Enhancement Plan TQ/pers:Twyn. Enhancement Plan.2022 v1**
The following Grassland areas will be created:
Area of wildflower seeding 1: **1794.4m2**
Area of wildflower seeding 2: **6561.9m2**
Area of wildflower seeding 3: **1105.29m2**

The woodland blocks have been assessed for their potential importance to bat species. No trees suitable for use by roosting bats are present within the site boundary. All trees have been assessed as category (3) trees meaning they have negligible value to bats. The site has direct links with adjacent buildings and extensive open countryside to the south all of which afford opportunities for bats. The eastern woodland blocks have been identified as used by foraging bats **(TerrAqua Ecological Services (2022). Land at Twynyrodyn Merthyr Tydfil Bat Activity Survey Report. Persimmon Homes.)** Numbers of bats foraging within the site is low, therefore the loss of these woodland blocks is unlikely to have a significant impact on bats providing suitable dark corridors are retained through or adjacent to the development.

The grasslands, scrub, and woodlands have been identified as having a high potential to support populations of reptile species. The range of habitats present means the site has the potential to support a number of different species and affords habitats suitable for foraging, basking and hibernation. A full survey of the site was completed in 2022 (**TerrAqua Ecological Services (2022). Land at Twynyrodyn Merthyr Tydfil Reptile Survey Report. Persimmon Homes.).** This survey confirmed the presence of slow worm and common lizard within the site and an appropriate mitigation strategy has been produced **(TerrAqua Biodiversity Enhancement Scheme and Reptile Mitigation Strategy for Persimmon Homes. July 2022).** Providing the mitigation strategy is implemented it is highly unlikely that the proposed development will have a significant impact on the local reptile population.

The ditch has been identified as being of very limited potential value to common amphibians at a site level although its ephemeral nature may reduce its ecological value. No habitats suitable for use by the protected great crested newt are present within the site boundary.

Brown field sites are often important areas for invertebrate species and can support a wide range of common, uncommon and rare species. An updated survey of the site was completed in 2022 **TerrAqua Ecological Services (2022). Land at Twynyrodyn Merthyr Tydfil Invertebrate Survey Report. Persimmon Homes.** The survey did not identify, and invertebrate species afforded full protection or species listed in the Environment (Wales) Act 2016 as any Species of Principle Importance for maintaining and enhancing Biodiversity in relation to Wales. All species found are relatively common within the local area. The loss of

the grasslands and scrub/woodland will lead to the loss of habitats suitable for invertebrates such as butterflies, moths and bees however proposed ecological enhancements including the planting of new wildflower areas and new hedgerow planting will ensure that suitable habitats for such species will be present in the medium to long term.

The loss of trees, scrub and other habitats will lead to the loss of feeding and nesting areas for birds. Nesting birds are protected by law. Any clearance work must be undertaken outside the bird breeding season March-July inclusive or ecological advice sought and areas to be removed checked for nesting birds by an ecologist no earlier than 48 hours before removal works commence. If nesting birds are found, then works must stop and no works on that area of hedgerow/habitat can be undertaken until all chicks have fledged and the nest abandoned.

No evidence of badger was found within any area of the site and no records for an historic badger presence was found therefore badger are unlikely to be affected by any future development.

No habitats suitable for use by hazel dormouse was found within the survey boundary. The site also lacks the degree of connectivity with high quality habitats associated with use by dormouse.

In conclusion based on the Ecological survey results obtained in 2019, 2021 and 2022 it is considered unlikely that any fully protected species or species of Principle Importance for maintaining and enhancing Biodiversity in relation to Wales will be significantly negatively affected by the development.

Large areas of unimproved grassland will be lost; however, compensation measures will ensure that species rich grasslands are created within the site post development. Appropriate lighting schemes will ensure that the periphery of the site remains functional for use by the small numbers of bats utilising the site. Similarly, if implemented as described the mitigation strategy for reptiles should ensure that reptiles are protected during construction and that suitable habitats are created post development for recolonisation to occur.

7 Recommendations

Suitable lighting plan should be Produced retaining dark corridors for use by bats

The **Drawing Twynyrodyn Detailed Landscape Proposals TDA.2539.01 March 2020 & Drawing Ecological Enhancement Plan TQ/pers:Twyn. Enhancement Plan.2022 v1**
Should be fully implemented along with the reptile mitigation strategy

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TerrAqua Ecological Services (2019). Land at Twynyrodyn Merthyr Tydfil Extended Phase I Habitat Survey/Preliminary Ecological Assessment. Persimmon Homes.

TerrAqua Ecological Services (2019). Land at Twynyrodyn Merthyr Tydfil Reptile Survey Report. Persimmon Homes.

TerrAqua Ecological Services (2019). Land at Twynyrodyn Merthyr Tydfil Bat Activity Survey Report. Persimmon Homes.

TerrAqua Ecological Services (2019). Land at Twynyrodyn Merthyr Tydfil Invertebrate Survey Report. Persimmon Homes.

TerrAqua Ecological Services (2021). Land at Twynyrodyn Merthyr Tydfil Extended Phase I Habitat Survey/Preliminary Ecological Assessment. Persimmon Homes.

As a period exceeding two years has elapsed since these surveys were completed and based on the potential for the ecological value of site to change over time a new suite of surveys has been undertaken during 2022. This includes:

TerrAqua Ecological Services (2022). Land at Twynyrodyn Merthyr Tydfil Extended Phase I Habitat Survey/Preliminary Ecological Assessment. Persimmon Homes.

TerrAqua Ecological Services (2022). Land at Twynyrodyn Merthyr Tydfil Reptile Survey Report. Persimmon Homes.

TerrAqua Ecological Services (2022). Land at Twynyrodyn Merthyr Tydfil Bat Activity Survey Report. Persimmon Homes.

TerrAqua Ecological Services (2022). Land at Twynyrodyn Merthyr Tydfil Invertebrate Survey Report. Persimmon Homes.

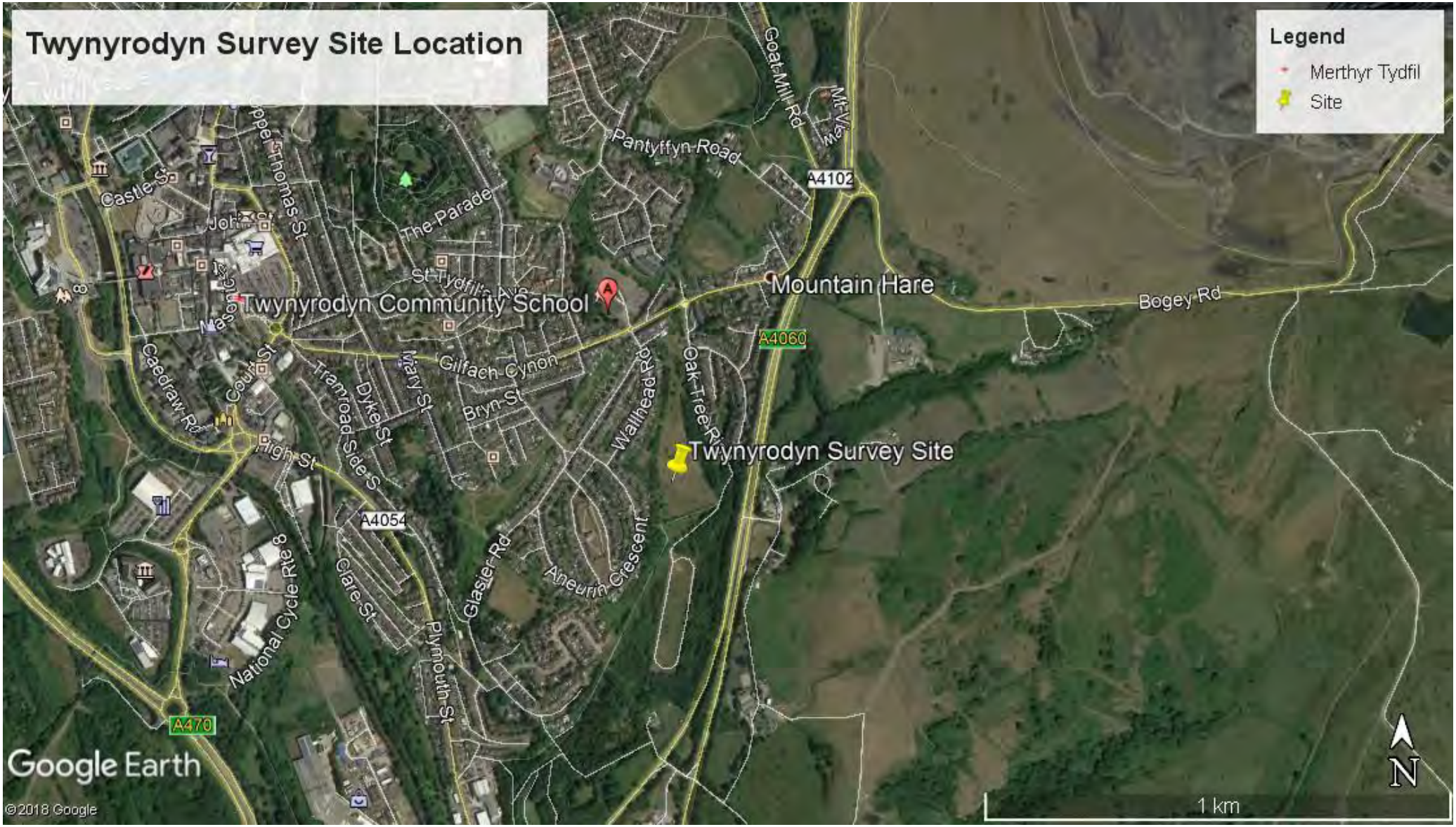
Drawing Twynyrodyn Detailed Landscape Proposals TDA.2539.01 March 2020 & Drawing Ecological Enhancement Plan TQ/pers:Twyn. Enhancement Plan.2022 v1

TerrAqua Biodiversity Enhancement Scheme and Reptile Mitigation Strategy for Persimmon Homes. July 2022).

The South Wales Wildlife Sites Partnership (2004). *Guidelines for the Selection of Wildlife Sites in South Wales.*

Appendix I

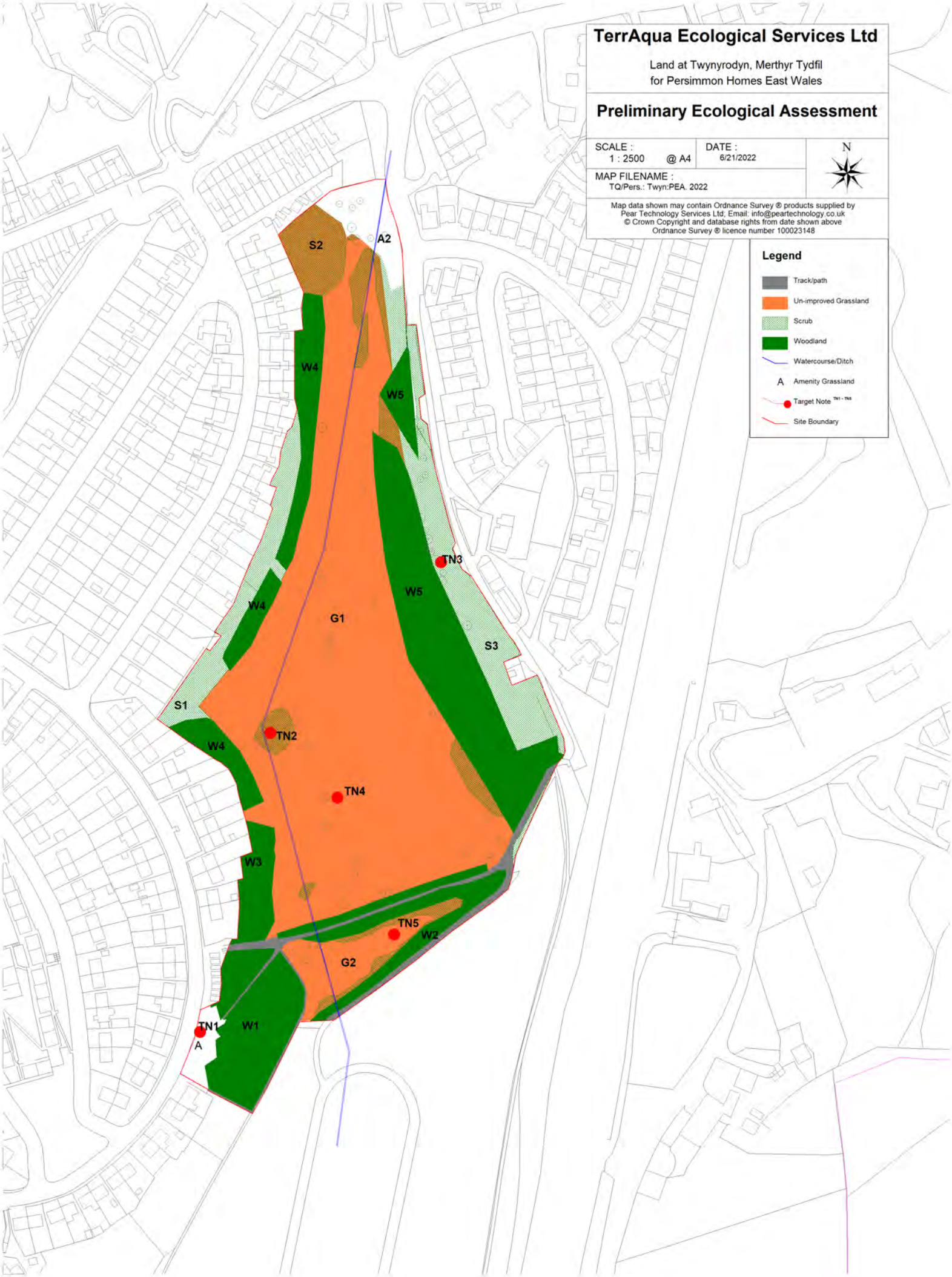
Location of Twynyrodyn Survey Area



Aerial View Showing Location of Twynyrodyn Survey Site (Image Google Earth 2022)

Appendix II

Map Showing Habitats Present and Targeted Ecological Features


TerrAqua Ecological Services Ltd
Land at Twynyrodyn, Merthyr Tydfil
for Persimmon Homes East Wales
Preliminary Ecological Assessment
SCALE :
1 : 2500 @ A4
DATE :
6/21/2022
MAP FILENAME :
TQ/Pers.: Twyn:PEA. 2022
N
Map data shown may contain Ordnance Survey ® products supplied by
Pear Technology Services Ltd; Email: info@peartechnology.co.uk
© Crown Copyright and database rights from date shown above
Ordnance Survey ® licence number 100023148
Legend
Track/path
Un-improved Grassland
Scrub
Woodland
Watercourse/Ditch
A Amenity Grassland
Target Note TN1 - TN5
Site Boundary
S2
A2
W4
W5
TN3
W5
W4
G1
S3
S1
TN2
W4
TN4
W3
TN5
W2
G2
TN1
W1
A

Appendix III

Data Search Results (Public) SEWBREC Data Supplied Through Aderyn

Ardenyn

LERC Wales: Biodiversity Information & Reporting Database

Cronfa Gofnodion Tesynylyn Meirion

LERC Wales Ardenyn

Date: 06-Jan-2022 16:16

Search Results Summary

Purchase 10 Points Service Use Search for Species Lists

Purchase 10 Points Service Use Search for Species Lists

Species Records	1,448
Total Records	1,448
Unique Species	1,448
Unique Genus	1,448
Unique Family	1,448
Unique Order	1,448
Unique Class	1,448
Unique Phylum	1,448
Unique Kingdom	1,448

Species Status	1,448
Unknown	1,448

Species Status	1,448
Present	1,448

Species Status
Present
Unknown

Ardenyn
Llanfair
Llanfachreth
Llanfachreth and Brithdir
Llanfachreth and Brithdir
Llanfachreth and Brithdir

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130	130	Cambridge Cambridge	Cambridge	Cambridge	Cambridge	Cambridge	Cambridge	130 Cambridge Court, Cambridge Cambridge, Cambridge, CB1 1DP	Cambridge Cambridge Cambridge Cambridge	Open
131	131	Cambridge Cambridge	Cambridge	Cambridge	Cambridge	Cambridge	Cambridge	131 Cambridge Court, Cambridge Cambridge, Cambridge, CB1 1DP	Cambridge Cambridge Cambridge Cambridge	Open
132	132	Cambridge Cambridge	Cambridge	Cambridge	Cambridge	Cambridge	Cambridge	132 Cambridge Court, Cambridge Cambridge, Cambridge, CB1 1DP	Cambridge Cambridge Cambridge Cambridge	Open
133	133	Cambridge Cambridge	Cambridge	Cambridge	Cambridge	Cambridge	Cambridge	133 Cambridge Court, Cambridge Cambridge, Cambridge, CB1 1DP	Cambridge Cambridge Cambridge Cambridge	Open
134	134	Cambridge Cambridge	Cambridge	Cambridge	Cambridge	Cambridge	Cambridge	134 Cambridge Court, Cambridge Cambridge, Cambridge, CB1 1DP	Cambridge Cambridge Cambridge Cambridge	Open
135	135	Cambridge Cambridge	Cambridge	Cambridge	Cambridge	Cambridge	Cambridge	135 Cambridge Court, Cambridge Cambridge, Cambridge, CB1 1DP	Cambridge Cambridge Cambridge Cambridge	Open
136	136	Cambridge Cambridge	Cambridge	Cambridge	Cambridge	Cambridge	Cambridge	136 Cambridge Court, Cambridge Cambridge, Cambridge, CB1 1DP	Cambridge Cambridge Cambridge Cambridge	Open
137	137	Cambridge Cambridge	Cambridge	Cambridge	Cambridge	Cambridge	Cambridge	137 Cambridge Court, Cambridge Cambridge, Cambridge, CB1 1DP	Cambridge Cambridge Cambridge Cambridge	Open
138	138	Cambridge Cambridge	Cambridge	Cambridge	Cambridge	Cambridge	Cambridge	138 Cambridge Court, Cambridge Cambridge, Cambridge, CB1 1DP	Cambridge Cambridge Cambridge Cambridge	Open
139	139	Cambridge Cambridge	Cambridge	Cambridge	Cambridge	Cambridge	Cambridge	139 Cambridge Court, Cambridge Cambridge, Cambridge, CB1 1DP	Cambridge Cambridge Cambridge Cambridge	Open
140	140	Cambridge Cambridge	Cambridge	Cambridge	Cambridge	Cambridge	Cambridge	140 Cambridge Court, Cambridge Cambridge, Cambridge, CB1 1DP	Cambridge Cambridge Cambridge Cambridge	Open
141	141	Cambridge Cambridge	Cambridge	Cambridge	Cambridge	Cambridge	Cambridge	141 Cambridge Court, Cambridge Cambridge, Cambridge, CB1 1DP	Cambridge Cambridge Cambridge Cambridge	Open
142	142	Cambridge Cambridge	Cambridge	Cambridge	Cambridge	Cambridge	Cambridge	142 Cambridge Court, Cambridge Cambridge, Cambridge, CB1 1DP	Cambridge Cambridge Cambridge Cambridge	Open
143	143	Cambridge Cambridge	Cambridge	Cambridge	Cambridge	Cambridge	Cambridge	143 Cambridge Court, Cambridge Cambridge, Cambridge, CB1 1DP	Cambridge Cambridge Cambridge Cambridge	Open
144	144	Cambridge Cambridge	Cambridge	Cambridge	Cambridge	Cambridge	Cambridge	144 Cambridge Court, Cambridge Cambridge, Cambridge,

1	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
2	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
3	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
4	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
5	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
6	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
7	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
8	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
9	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
10	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
11	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
12	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
13	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
14	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
15	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
16	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
17	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
18	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
19	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
20	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
21	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
22	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
23	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
24	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
25	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
26	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
27	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
28	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
29	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
30	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
31	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
32	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
33	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
34	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
35	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
36	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
37	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
38	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
39	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
40	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
41	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
42	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
43	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
44	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
45	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
46	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
47	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
48	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
49	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
50	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
51	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
52	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
53	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
54	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
55	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
56	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
57	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
58	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
59	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
60	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
61	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
62	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
63	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
64	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
65	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
66	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
67	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
68	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
69	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
70	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
71	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
72	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
73	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
74	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
75	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
76	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
77	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
78	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
79	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
80	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
81	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
82	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
83	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
84	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
85	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
86	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
87	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
88	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
89	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
90	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
91	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
92	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
93	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
94	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
95	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
96	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
97	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
98	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
99	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
100	Cicindela hirtiventris	Hairy-bellied Tiger Beetle	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles

RECORDS OF SPECIES OF CONSERVATION CONCERN WITHIN SEARCH AREA

Species of Conservation Concern: Federal Threatened, Federal Proposed Threatened, Federal Candidate, Federal Delisted, Federal Proposed Delisted, State Threatened, State Endangered, State Proposed Threatened, State Proposed Endangered, State Candidate, State Delisted, State Proposed Delisted, Critically Imperiled, Imperiled, Vulnerable, Rare, Uncommon, Watch, Extirpated, Extinct, Unknown, Stable

	Common Name	Scientific Name	Family	Order	Class	Phylum	Kingdom	Common	Common	Common	Common	Common	Common
1	Hairy-bellied Tiger Beetle	Cicindela hirtiventris	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
2	Hairy-bellied Tiger Beetle	Cicindela hirtiventris	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
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9	Hairy-bellied Tiger Beetle	Cicindela hirtiventris	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
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11	Hairy-bellied Tiger Beetle	Cicindela hirtiventris	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
12	Hairy-bellied Tiger Beetle	Cicindela hirtiventris	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
13	Hairy-bellied Tiger Beetle	Cicindela hirtiventris	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
14	Hairy-bellied Tiger Beetle	Cicindela hirtiventris	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
15	Hairy-bellied Tiger Beetle	Cicindela hirtiventris	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
16	Hairy-bellied Tiger Beetle	Cicindela hirtiventris	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
17	Hairy-bellied Tiger Beetle	Cicindela hirtiventris	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
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31	Hairy-bellied Tiger Beetle	Cicindela hirtiventris	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
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33	Hairy-bellied Tiger Beetle	Cicindela hirtiventris	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
34	Hairy-bellied Tiger Beetle	Cicindela hirtiventris	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
35	Hairy-bellied Tiger Beetle	Cicindela hirtiventris	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
36	Hairy-bellied Tiger Beetle	Cicindela hirtiventris	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
37	Hairy-bellied Tiger Beetle	Cicindela hirtiventris	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
38	Hairy-bellied Tiger Beetle	Cicindela hirtiventris	Cicindelidae	Coleoptera	Insecta	Arthropoda	Animalia	Animalia	Kingdom	Tiger Beetles	Tiger Beetles	Cicindelinae	Tiger Beetles
39	Hairy-bellied Tiger Beetle	Cicindela hirtiventris	Cicindelidae	Coleoptera	Insecta

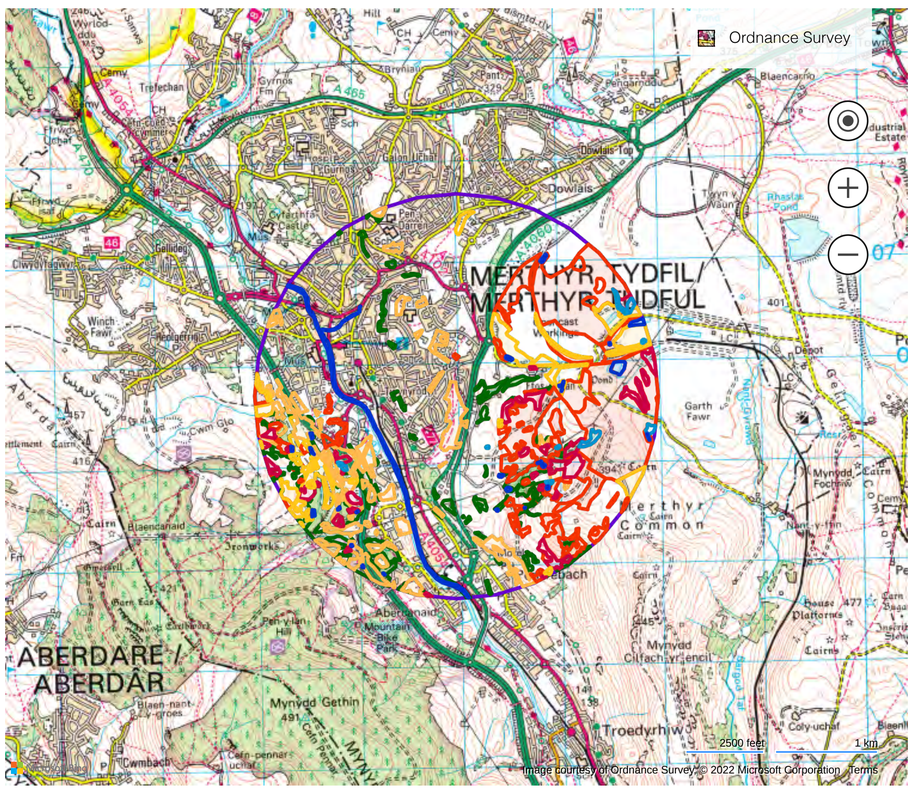
0.0 km	Ceratogyna ceratocystoides	Fungi				Ceratocystis Fungus		Unknown	
0.0 km	Ceratocystis fimbriata	Fungi				Ceratocystis Fungus		Unknown	
0.0 km	Ceratocystis fimbriata	Fungi		Cf-Ipo	Ipo	Ceratocystis Fungus		Unknown	
0.0 km	Ceratocystis fimbriata	Fungi				Ceratocystis Fungus		Unknown	
0.0 km	Ceratocystis fimbriata	Fungi		Cf-Ipo-1		Ceratocystis Fungus		Unknown	
0.0 km	Ceratocystis fimbriata	Fungi		Cf-Ipo-2		Ceratocystis Fungus		Unknown	
0.0 km	Ceratocystis fimbriata	Fungi		Cf-Ipo-3		Ceratocystis Fungus		Unknown	
0.0 km	Ceratocystis fimbriata	Fungi	

Habitats

Below are listed habitats within the search areas (based on the largest buffer). Habitats marked in red may contain Priority habitats. Habitats are listed in order of intersection size (decending). **Common habitats are not returned.**.

Code	Count	Intersection Area	Percentage	Description
B.1.1	20	1,697,830.00m^2	13.59%	Unimproved acid grassland
A.1.1.1	91	1,058,607.00m^2	8.47%	Semi-natural broadleaved woodland
I.2.2	16	940,391.00m^2	7.53%	Spoil
D.5	11	891,311.00m^2	7.13%	Wet heath/acid grassland mosaic
B.2.2	62	835,858.00m^2	6.69%	Semi-improved neutral grassland
B.1.2	30	769,273.00m^2	6.16%	Semi-improved acid grassland
J.1.2	31	470,991.00m^2	3.77%	Amenity grassland
I.2.1	5	392,071.00m^2	3.14%	Quarry
A.2.1	77	324,282.00m^2	2.60%	Dense scrub
C.1.1	44	275,764.00m^2	2.21%	Bracken
B.5	31	260,010.00m^2	2.08%	Marshy grassland
D.2	3	183,109.00m^2	1.47%	Wet heath
A.1.1.2	16	148,044.00m^2	1.19%	Planted broadleaved woodland
J.4	17	127,211.00m^2	1.02%	Bare ground
D.1.1	21	123,969.00m^2	0.99%	Dry acid heath
G.2	11	86,259.00m^2	0.69%	Running water
I.2.4	4	68,558.00m^2	0.55%	Refuse-tip
A.1.2.2	11	49,688.00m^2	0.40%	Planted coniferous woodland
B.5.1	4	46,639.00m^2	0.37%	Marshy grassland Juncus dominated
E.2.1	9	43,468.00m^2	0.35%	Acid/neutral flush
G.1	28	41,791.00m^2	0.33%	Standing water
A.1.3.2	2	38,708.00m^2	0.31%	Planted mixed woodland
D.6	2	36,341.00m^2	0.29%	Basic dry heath/calcareous grassland mosaic
J.3.7	4	30,790.00m^2	0.25%	Track (not comprehensively digitised)
C.3.1	9	15,894.00m^2	0.13%	Tall ruderal herb
J.1.4	2	2,777.00m^2	< 0.01%	Introduced scrub
J.1.3	1	2,246.00m^2	< 0.01%	Ephemeral/short perennial

Habitats Map



Col.	Name
	Unimproved acid grassland (1,697,830m^2)
	Semi-natural broadleaved woodland (1,058,607m^2)
	Wet heath/acid grassland mosaic (891,311m^2)
	Semi-improved neutral grassland (835,858m^2)
	Semi-improved acid grassland (769,273m^2)
	Marshy grassland (260,010m^2)
	Wet heath (183,109m^2)
	Dry acid heath (123,969m^2)
	Running water (86,259m^2)
	Marshy grassland Juncus dominated (46,639m^2)
	Acid/neutral flush (43,468m^2)
	Standing water (41,791m^2)
	Basic dry heath/calcareous grassland mosaic (36,341m^2)

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6. The 'Data User' may not copy, distribute, disseminate, publish or broadcast 'the data' in any format, including on the Internet, without the permission of the relevant LERC.
7. I agree that where other parties require access to 'the data', I will direct them to the relevant LERC.
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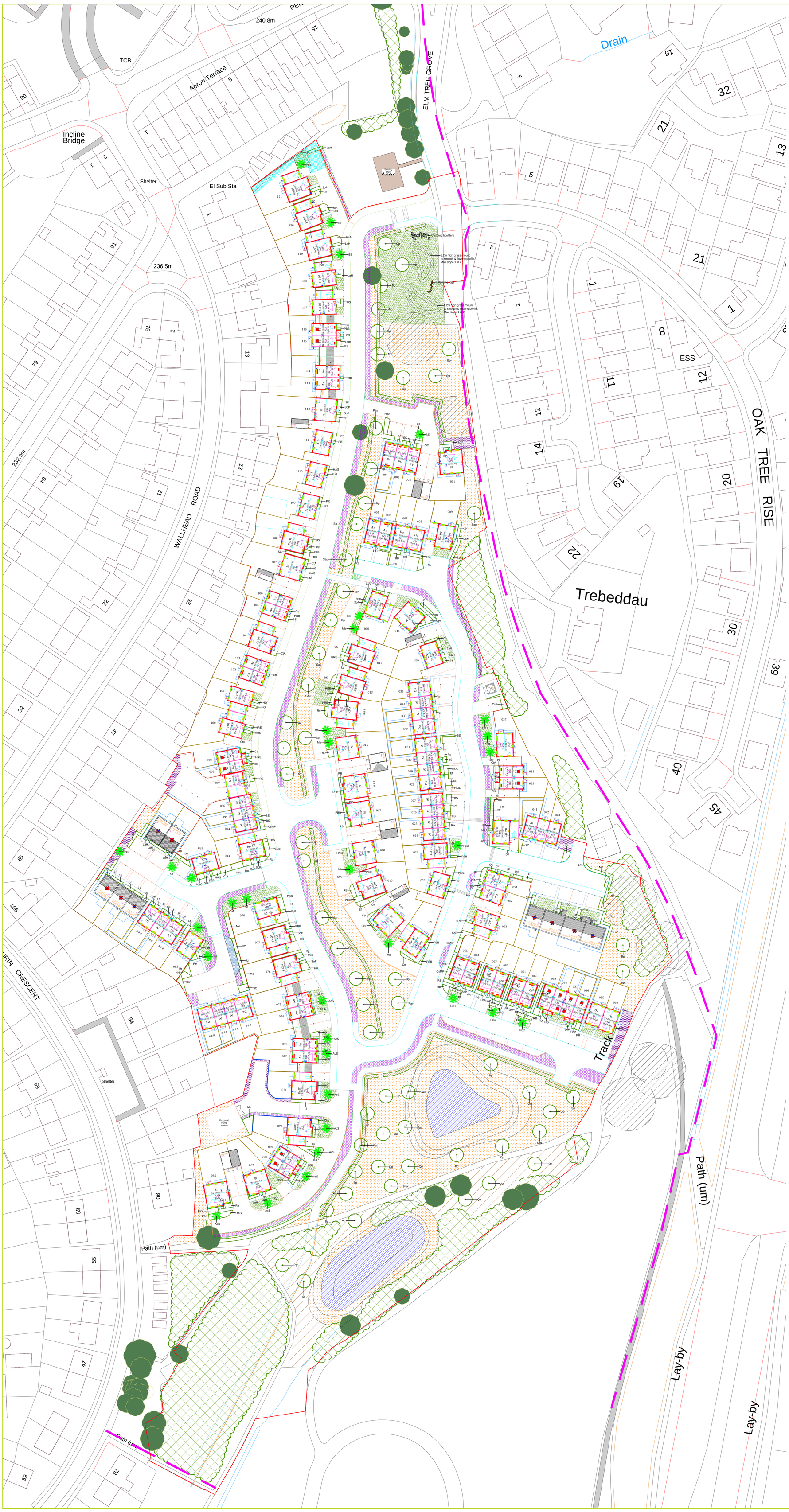
Appendix IV

Soft Landscaping Proposals



SOFT LANDSCAPE KEY

- EXISTING TREES & VEGETATION TO BE RETAINED (Gaps & thin spots to be infilled with new native planting. Refer to schedule for species)
- PROPOSED ORNAMENTAL TREE PLANTING (Refer to schedule for species)
- PROPOSED NATIVE TREE PLANTING (Refer to schedule for species)
- PROPOSED SHRUB PLANTING (Refer to schedule for species/densities. 200mm maintenance strip to be left clear between shrubs and structures & fences)
- PROPOSED NATIVE HEDGEROWS (Refer to Plant schedule for species/densities)
- PROPOSED WILDFLOWER SEEDING 1 (Seeding to be Emorsgate EL1)
- PROPOSED WILDFLOWER SEEDING 2 (Seeding to be Emorsgate EM1)
- PROPOSED WILDFLOWER SEEDING 3 (Seeding to be Emorsgate EM8)
- PROPOSED GROUNDCOVER PLANTING (Refer to Plant schedule for species/densities)
- EXISTING GRASS / SCRUB TO BE RETAINED
- PROPOSED RAIN GARDEN PANTING (Refer to Planting Module for species/densities)

PLANT SCHEDULE

NATIVE TREE PLANTING

ABBRV	SPECIES	DENSITY	HEIGHT/GIRTH	ROOT COND	POT SIZE	TOTAL
Ac	Acer campestre	AS SHOWN	12 - 14 (g)	ROOTBALLED	--	--
Bp	Betula pendula		12 - 14 (g)	ROOTBALLED	--	--
Pav	Prunus avium		12 - 14 (g)	ROOTBALLED	--	--
Qp	Quercus petraea		12 - 14 (g)	ROOTBALLED	--	--
Sau	Sorbus aucuparia		14 - 16 (g)	ROOTBALLED	--	--

ORNAMENTAL TREE PLANTING

ABBRV	SPECIES	DENSITY	HEIGHT/GIRTH	ROOT COND	POT SIZE	TOTAL
AcS	Acer campestre 'Streetwise'	AS SHOWN	12 - 14 (g)	ROOTBALLED	--	--
Be	Betula Edinburgh		12 - 14 (g)	ROOTBALLED	--	--
Gt	Gleditsia triacan. draves street keeper		12 - 14 (g)	ROOTBALLED	--	--
Mb	Malus baccata 'Street Parade'		12 - 14 (g)	ROOTBALLED	--	--
PcC	Pyrus calleryana 'Chanticleer'		12 - 14 (g)	ROOTBALLED	--	--

GROUNDCOVER PLANTING

ABBRV	SPP. & PERCENTAGE IN MIX	DENSITY	HEIGHT/GIRTH	ROOT COND.	POT SIZE	TOTAL
AS KEY	Pachysandra terminalis	5 sqm	30 - 40 (h)	CON	-	-

NATIVE HEDGEROW PLANTING

ABBRV	SPP. & PERCENTAGE IN MIX	DENSITY	HEIGHT/GIRTH	ROOT COND	POT SIZE	TOTAL
AS KEY	Corylus avellana (30%)		60 - 80 (h)	BR	-	-
	Crataegus monogyna (30%)		60 - 80 (h)	BR	-	-
	Ilex aquifolium (15%)	5 per lin/m	60 - 80 (h)	CON	-	-
	Rosa arvensis (10%)		60 - 80 (h)	BR	-	-
	Viburnum opulus (15%)		60 - 80 (h)	BR	-	-

(Hedgerows to be planted as double staggered rows 500mm apart)

SHRUB PLANTING

ABBRV	SPECIES	DENSITY	HEIGHT/GIRTH	ROOT COND	POT SIZE	TOTAL
BS	Brachyglottis Sunshine	4 sqm	30 - 40 (h)	CON	2-3L	-
CsF	Cornus sericea 'Flaviramea'	3 sqm	40 - 60 (h)	CON	2-3L	-
CsMF	Cornus sanguinea 'Midwinter Fire'	3 sqm	40 - 60 (h)	CON	2-3L	-
CtA	Chosiya ternata 'Apple Blossom'	4 sqm	30 - 40 (h)	CON	2-3L	-
Ctr	Ceanothus thyrsiflorus var. repens	5 sqm	30 - 40 (h)	CON	2-3L	-
DF	Dryopteris Felix-Mas	4 sqm	30 - 40 (h)	CON	2-3L	-
Ef	Euonymus fortunei 'Emerald Gaiety'	4 sqm	40 - 60 (h)	CON	2-3L	-
HaA	Hydrangea arborescens Annabelle	2 sqm	40 - 60 (h)	CON	2-3L	-
HAG	Hebe 'Autumn Glory'	5 sqm	30 - 40 (h)	CON	2-3L	-
HH	Hypericum Hidcote	3 sqm	30 - 40 (h)	CON	2-3L	-
Ho	Heuchera 'Obsidian'	5 sqm	30 - 40 (h)	CON	2-3L	-
Hr	Hebe rakaiensis	4 sqm	30 - 40 (h)	CON	2-3L	-
HRE	Hebe Red Edge	5 sqm	30 - 40 (h)	CON	2-3L	-
LaH	Lavandula angustifolia 'Hidcote'	5 sqm	30 - 40 (h)	CON	2-3L	-
LF	Leucothoe scarletta zeblid	3 sqm	30 - 40 (h)	CON	2-3L	-
Lp	Lonicera pileata	4 sqm	30 - 40 (h)	CON	2-3L	-
Me	Mahonia eurybracteata 'Soft Caress'	3 sqm	30 - 40 (h)	CON	2-3L	-
PBB	Phormium Bronze Baby	4 sqm	30 - 40 (h)	CON	2-3L	-
PlOL	Prunus laurocerasus 'Otto Luyken'	3 sqm	30 - 40 (h)	CON	2-3L	-
PR	Photinia fraseri '**Little** Red Robin'	4 sqm	30 - 40 (h)	CON	2-3L	-
RB	Rhododendron Bloombux	4 sqm	30 - 40 (h)	CON	2-3L	-
Ro	Rosmarinus officinalis	4 sqm	30 - 40 (h)	CON	2-3L	-
SC	Sarococca hookeriana digyna	3 sqm	30 - 40 (h)	CON	2-3L	-
Sj	skimmia japonica rubella	3 sqm	30 - 40 (h)	CON	2-3L	-
SoP	Salvia officinalis Purpurascens	5 sqm	30 - 40 (h)	CON	2-3L	-

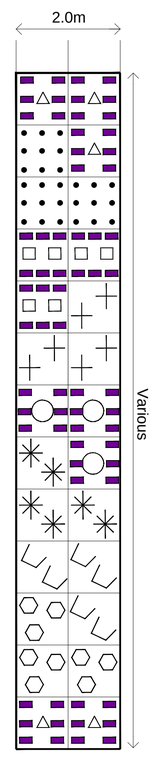
INFILL NATIVE UNDERSTOREY PLANTING

ABBRV	SPP. & PERCENTAGE IN MIX	DENSITY	HEIGHT/GIRTH	ROOT COND	POT SIZE	TOTAL
AS KEY	Corylus avellana (30%)	1 sqm	40 - 60 (h)	ROOT CELL	-	-
	Cornus sanguinea (10%)		40 - 60 (h)	ROOT CELL	-	-
	Crataegus monogyna (50%)		40 - 60 (h)	ROOT CELL	-	-
	Ilex aquifolium (10%)		--	CON	P9	-

BULB PLANTING

ABBRV	SPP. & PERCENTAGE IN MIX	DENSITY	HEIGHT/GIRTH	ROOT COND.	POT SIZE	TOTAL
AS KEY	Galanthus nivalis (30%)	20 sqm	--	BULB	-	-
	Hyacinthoides nonscripta (10%)		--	BULB	-	-
	Narcissus pseudonarcissus (50%)		--	BULB	-	-

RAIN GARDEN PLANTING MODULE



KEY TO PLANTING MODULE
(TYPICAL 2.0m x 10.0m SQUARE MODULE BASED ON 1.0m GRID)

- △ Calamagrostis brachytricha (30-40 Con 2-3L)
- ┼ Zantedeschia aethiopica (30-40 Con 2-3L)
- □ Dryopteris filix-mas (30-40 Con 2-3L)
- ○ Iris pseudacorus (30-40 Con 2-3L)
- ✳ Helleborus foetidus (30-40 Con 2-3L)
- • Lychnis flos-cuculi (30-40 Con 1L)
- Carex pseudocyperus (30-40 Con 2-3L)
- ⬡ Juncus effusus (30-40 Con 2-3L)
- ▬ Ajuga reptans 'Atropurpurea' (Con 9cm)

NOTE:

Native trees, hedgerows and infill planting to be protected with biodegradable spiral guards

Bare-root planting within native infill planting to be staked with 900mm bamboo canes & Holdfast Natural Tree Ties

Trees within 2m of hard surfacing or services to be planted with GreenBlue Urban ReRoot root barriers

This is a colour drawing produced at a scale of 1:500 @ A0. Do not rely on monochrome or reduced copies

F	Amended site layout	AMP	28.06.22

TDA
THE GRANARY
NEWLAND FAWR FARM
LLANGAN
CF35 5DN
TEL: 01446 789367

CLIENT: PERSIMMON HOMES EAST WALES

DRAWING NUMBER: TDA.2539.01
SCALE: 1:500 @ A0
DRAWN: RHC/AMP
DATE: MARCH 2020

PROJECT: TWYN YR ODYN

DRAWING TITLE: DETAILED SOFT LANDSCAPE PROPOSALS