



ISSUING OFFICE:

The Lodge
Caerphilly Business Park
Van Road
Caerphilly
CF83 3GG

T: 029 2002 2320

E: info@wildwoodecology.com

W: www.wildwoodecology.com

WILDLIFE PROTECTION PLAN

BIKE PARK WALES, MERTHYR TYDFIL

BIKE PARK WALES

DOCUMENT REF: WWE20037 WPP REV D | 04/01/2021

Director: Richard Dodd, BSc (Hons), CEcol, MCIEEM

Wildwood Ecology Limited. Registered in England & Wales, Company No. 6646654 VAT No. 938019610

Registered Office: Queen Anne House, 66 Cricklade Street, Cirencester, Gloucestershire, GL7 1JN

Client:	Bike Park Wales
Site/Job:	Bike Park Wales, Merthyr Tydfil
Report title:	Wildlife Protection Plan
Report reference:	WWE20037 WPP Rev D

Grid Reference:	SO 05132 03460
Agent:	n/a
Planning reference:	P/19/0073

VERSIONING AND QUALITY ASSURANCE

Rev	Status	Date	Author(s)	Reviewed by	Approved by
A	Draft	02/03/2020	Jessica Snow ACIEEM Ecologist	Alex Wilson MCIEEM Principal Ecologist	Alex Wilson MCIEEM Principal Ecologist
B	FINAL	04/11/2020	Jessica Snow ACIEEM Ecologist	Alex Wilson MCIEEM Principal Ecologist	Alex Wilson MCIEEM Principal Ecologist
C	FINAL	04/11/2020	Jessica Snow ACIEEM Ecologist	Alex Wilson MCIEEM Principal Ecologist	Alex Wilson MCIEEM Principal Ecologist
D	FINAL	04/01/2021	Jessica Snow ACIEEM Ecologist	Alex Wilson MCIEEM Principal Ecologist	Alex Wilson MCIEEM Principal Ecologist

DISCLAIMER

This document has been prepared by Wildwood Ecology Limited for Bike Park Wales solely as a Wildlife Protection Plan. Wildwood Ecology Limited accepts no responsibility or liability for any use that is made of this document other than by the client for the purposes for which it was originally commissioned and prepared.

The evidence which we have prepared and provided is true, and has been prepared and provided in accordance with the guidance of The Chartered Institute of Ecology and Environmental Management's Code of Professional Conduct. We confirm that the opinions expressed are our true and professional bona fide opinions.

CONTENTS

	List of figures	iii
	List of tables	iii
1	Introduction	1
2	Wildlife Protection Zones	3
3	Protective Measures	5
4	Planting Schedule	7
5	Timetable of Works	9
6	Roles and Responsibilities	13
7	Bat Box Locations	14
APPENDIX I:	Landscape Plan	16
APPENDIX II:	Tree Protection Plan	17
APPENDIX III:	Proposed Sub-Phasing of Phase 2 works	18

List of figures

Figure 1 – Location of reptile fencing (yellow line) associated with the initial works to the main car park; and subsequent works to finalise the main car park (pink line). It is envisaged that the area within the yellow fencing (Area A) will be complete prior to the installation and works within the pink fenced area (Area B). Turn backs on the fencing will be necessary to ensure reptiles do not enter the development footprint. Area C is an additional area for reptile translocation, if required, for use within the works to Area B. NB The woodland edges act as a barrier, hence why fencing is not included within these edges.	3
Figure 2 – Wildlife Protection Zones.....	4
Figure 3 – Recommended bat box location (red squares).....	14
Figure 4 – Recommended bat box location (red squares).....	15
Figure 5 – The works will commence within the red area, followed in subsequent months/years by the yellow and purple areas, and then the camping pods and associated infrastructure.	18

List of tables

Table 1 - Phase 2 planting schedule.....	7
Table 2 - Phase 3 planting schedule.....	8
Table 3 – Timetable for Phase 2	9
Table 4 – Timetable for Phase 3	10
Table 5 – Timetable for post construction management of mitigation measures	11

1 INTRODUCTION

- 1.1 Wildwood Ecology was commissioned by Bike Park Wales (the client) to produce a Wildlife Protection Plan (WPP) for the approved planning of their masterplan development.
- 1.2 The site is subject of a planning application, reference P/19/0073 which has been granted planning permission with conditions.
- 1.3 The planning application is for the provision of 36 camping pods and 5 chalets, erection of shower/toilet block and creation of play and picnic area. It also includes construction of a new parking area (150 spaces) with overflow carpark (46 spaces), together with a trail maintenance yard, new highway access routes, ground profile works, drainage, infrastructure and landscape works at Bike Park Wales Gethin Woodland Centre Abercanaid Merthyr Tydfil CF48 1YZ.
- 1.4 The proposals are part of a phased approach, with the first phase (Phase 2) of works to be carried out in 2021. Originally, this phase included the construction of a ditch and sewage treatment plant, some of the camping pods (see plan), shower and toilet facilities, and a section of car park. Currently, in the light of Covid-19 impacts, the proposals will be further phased to have the camping pods and associated infrastructure, and overflow parking constructed at a later date.
- 1.5 Appendix III highlights the areas to be taken forward initially – the red section (Section A) will be progressed first, with further works to the area to the east of this red area also (within the overall proposed parking area).
- 1.6 The plans referred to are the Detailed Landscape Proposals Masterplan Rev E (19/461/09E) by Peter Quinn Associates.
- 1.7 This document should be read in conjunction with all other reports and survey information available, including;
 - Wildwood Ecology - Bike Park Wales - PEA report Final (WWE18125 EcIA Rev E, dated 24/10/2018)
 - Wildwood Ecology– Bike Park Wales – Habitat Management Plan Final (WWE19194 HMP Rev B, 10/10/2019)
 - Wildwood Ecology– Bike Park Wales – Woodland Management Plan (WWE20037 WMP)
 - Peter Quinn Associates - BPW 10 Year Landscape Maintenance Programme (dated 4/10/2019)
 - Treescene Arboricultural Consultants – Tree Protection Plan (dated 11/2019)

Planning Conditions

- 1.8 The purpose of this Wildlife Protection Plan is to fulfil the discharge of planning condition number six for the planning application P/19/0073:

No development shall take place until a Wildlife Protection Plan has been submitted to and approved in writing by the Local Planning Authority. The plan shall have regard to the recommendation of the Ecological Impact Assessment and shall include:

 - a. *An appropriate scale plan showing “Wildlife Protection Zones” where construction activities are restricted and where protective measure will be installed and implemented;*
 - b. *Details of protective measures (both physical and sensitive working practices) to avoid impacts during construction, including a pollution prevention plan to protect all watercourses and ponds within the site and surrounding areas;*
 - c. *A timetable to show phasing construction activities to avoid periods of the year when sensitive wildlife could be harmed (such as nesting bird season);*
 - d. *A timetable for the implementation of the mitigation measures set out in the Habitat Management Plan;*
 - e. *Details of the location for 5 bat boxes (Schwegler Type 2FN)*

f. Persons responsible for:

- i) Compliance with legal consent relating to nature conservation;*
- ii) Compliance with planning conditions relating to nature conservation;*
- iii) Installation of physical protection measures during construction;*
- iv) Regular inspection and maintain of physical protection measures and monitoring of working practices during construction;*
- v) Provision of training and information about the importance of the 'Wildlife Protections Zones' to all construction personnel on site.*

2 WILDLIFE PROTECTION ZONES

- 2.1 Plan showing “Wildlife Protection Zones” where construction activities are restricted and where protective measures will be installed and implemented. These are shown below in Appendix II (tree protection measures), Figure 1 (phased reptile fenced areas) and Figure 2 (longer term protected areas in relation to trees and woodland).
- 2.2 Protective fencing recommended as part of the tree protection plan will help create “Wildlife Protection Zones”. This will ensure construction activities are restricted in the most sensitive areas. These areas seek to protect biodiversity sites, habitats and/or species either through protective measures (e.g. fencing) or control measures (e.g. restricted areas for certain temporary activities or features).
- 2.3 Where the protection zone includes an active track (e.g. the pump track), it is the protection of the trees and ensuring these are retained as dark features which allows it to be classed as a wildlife protection zone.
- 2.4 The phasing of the works will require that the fencing is installed in stages to prevent access for construction related traffic, for storage of materials or other construction related activities within the Phase 3 area.
- 2.5 The reptile fencing is marked on the Figure 1 below, however, consideration will be needed to ensure that the existing access and trails are available for use, as appropriate. This especially pertains to the tree protection measures (see Appendix II).
- 2.6 Construction activities will be excluded from the fenced (tree protection) areas and the fences will remain in situ until after final landscaping has been carried out.

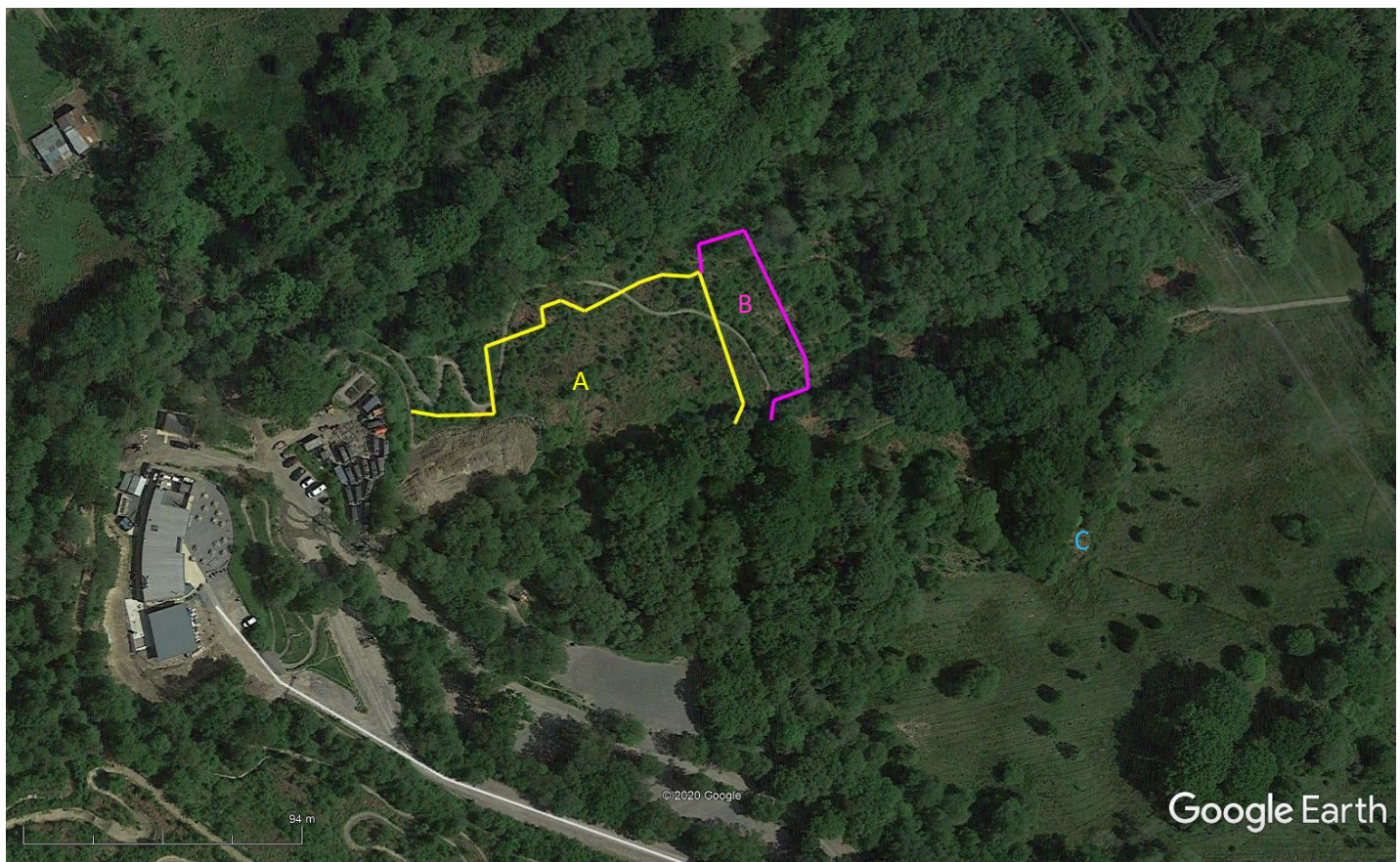
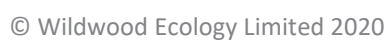


Figure 1 – Location of reptile fencing (yellow line) associated with the initial works to the main car park; and subsequent works to finalise the main car park (pink line). It is envisaged that the area within the yellow fencing (Area A) will be complete prior to the installation and works within the pink fenced area (Area B). Turn backs on the fencing will be necessary to ensure reptiles do not enter the development footprint. Area C is an additional area for reptile translocation, if required, for use within the works to Area B. NB The woodland edges act as a barrier, hence why fencing is not included within these edges.



3 PROTECTIVE MEASURES

- 3.1 Details of protective measures (both physical and sensitive working practices) to avoid impacts during construction, including a pollution prevention plan to protect all watercourses and ponds within the site and surrounding areas are described within this section.

Physical protective measures

Reptile fencing

- 3.2 This will be installed prior to the development commencing under the supervision of the onsite ecologist.
- 3.3 Reptile-proof exclusion fencing will be erected to enclose development footprint. The fencing will be constructed from strong polythene or woven geotextile secured with wooden stakes (NB the stakes need to be placed on the construction side of the fencing). The polythene or geotextile will be installed 250mm vertically below ground and 600mm vertically above ground. The positioning of the fencing can be seen in Figure 2.
- 3.4 Turn backs will be added at the ends of the fencing to minimise the risk of any animals entering the construction zone.

Tree protection fencing

- 3.5 As discussed in the tree survey provided by Treescene (2019), there is a high risk to established trees at the site and thus the installation of protective fencing is recommended. Trees will be protected using a scaffold frame supporting weld mesh panel fencing sited on the edge of the Root Protection Area as defined in BS5837:2012.
- 3.6 These fenced areas will not be used for the storage of any plant machinery or materials and personnel should be excluded at all times; fences will remain in situ until after final landscaping has been carried out, and removed by hand with great care to prevent compaction or root damage to established trees.

Pollution prevention plan

- 3.7 Silt fencing, or other similar pollution control measures, will be installed by the edges of the stream located in the south-east and northern parts of the site, as well as in any areas where significant soil erosion is considered likely as a result of the felling or other works planned at the site. This will be done prior to works commencing to prevent the discharge of soil into nearby watercourses and causing a subsequent decline in water quality.
- 3.8 Soil and bank erosion on the site will predominantly be caused by vegetation clearance and the movement of large construction vehicles, especially for works close to the stream in the south-east corner of the site. The consequence of increased soil erosion at the site may result in damage to mature, in situ trees, an increase in the time taken for newly planted trees to grow, or a failure for them to grow at all and pollution of nearby waterbodies via run off.
- 3.9 In order to control soil erosion at the site, tree felling and vegetation clearance will be managed appropriately to minimise impact on the soil structure. Additionally, there will be no large vehicular access to unstable track or ground to prevent accelerated erosion.
- 3.10 Ongoing erosion as a result of trail use by bikes and walkers is advised to be managed through the use of vegetated bunding, to encourage the use of the designated pathway/trail only. Planting of tussocky (or encouraging) species and structural diversity will aid this by both stabilising bunds/banks and discouraging unauthorised access/trespass.
- 3.11 Adequate protection of watercourses will be in place, with responsive action taken to changes in climate i.e. increased levels of water run-off due to more extreme weather events; and any other factors that may cause an increase in run off (cumulative effects of felling of offsite trees, for example). Protection measures (in terms of soil and bank erosion) will include widening the course to allow pooling, and resultant slowing of the flow.

- 3.12 All plant and machinery on site will carry an appropriate spill kit to ensure that if a pollution incident occurs then these kits will prevent contaminants from entering the adjacent waterbody. Contractors using such machines will be trained in how to use spill kits appropriately.
- 3.13 There will be no night working or illumination of the site above existing levels during the works, and no additional lighting will be installed as part of the early Phase 2 proposals at this time. Any additional lighting onsite will be documented subsequently as part of agreed lighting plans, in relation to discharge of Condition 7.

Sensitive working practices

- 3.14 An ecologist will be present onsite during all sensitive works. Weekly updates will be provided to the project team with respect to ecology and site progress, with these informed by onsite checks, supervision, or where these are not required (i.e. within later elements of the works) by phone/zoom meetings with the site manager (contractor). A record of these updates will be provided to the LPA ecologist and NRW as required, and by the end of each phase of works.
- 3.15 Works will be timed to avoid disturbance to nesting birds, reptiles and foraging/commuting bats as far as is reasonably practical. Works will commence between September and March within the year of development and will be sufficiently well advanced as to minimise any lag into periods where nesting birds may become active, reptiles start to emerge from brumation or bats from hibernation.
- 3.16 The first part of works are timed within the colder part of the year and during a sensitive time for reptiles. As such works being carried out within cold temperatures will require higher levels of ecological staff presence and destructive techniques undertaken to prevent any reptiles from being killed or injured.
- 3.17 Removal of vegetation to be undertaken outside of the bird breeding season (i.e. before March and after mid-September) with only above ground level vegetation removed in the winter period, following a licenced dormouse ecologist's check. If there are any rootballs present and suitable for use by small mammals, these will be left in situ until temperatures are regularly above 10°C (usually late Spring i.e. May). They may then be removed following a further ecologist-led check. If habitats suitable for nesting birds are removed within the bird breeding season, then this may occur, but only under direct ecological supervision and following a check by a suitably qualified ecologist.
- 3.18 In the unlikely event that a nesting bird is found onsite during works, the nest will be protected and allowed to progress. No works will occur in this area until the nest become inactive/chicks have fledged. The exclusion zone and fledging time will vary depending on species and so liaison with the ecologist will ensure that appropriate measures are taken.
- 3.19 All larger trees highlighted as having suitable roost features for bats will be retained and remain unlit. There will be no blocking or impede of potential flight lines to and from the roost features.
- 3.20 Standard working hours for all construction activity will be within daylight hours only to remove the need for artificial floodlighting.
- 3.21 All excavations or trenching will that are not covered will include a means of escape for any animals that may fall into them. This may be a plank set at 30° to allow escape.
- 3.22 All materials/ fuel chemicals will be stored away from natural habitats, preferably within a secure storage space within or close to one of the buildings onsite. This space should be properly secured to prevent animal access.

Compliance

- 3.23 All compliance reports and monitoring results (including management updates) will be provided to the LPA within six weeks of the relevant compliance/monitoring visits being undertaken.

4 PLANTING SCHEDULE

Ground flora management

- 4.1 After the first phase of vegetation management and tree felling has been completed, wildflower and grass seeds should be sown over the bare land. This will help to stabilise the soil and increase biodiversity at the site.
- 4.2 The seed mix used will focus on BS8M: woodland and heavy shade wildflowers to allow for continued presence once newly planted trees have grown up.
- 4.3 Mixes of BS7M: Hedgerow and light shade wildflowers may be preferred in some areas of the site at the edge of wooded areas or along newly planted lines of trees.
- 4.4 Sowing will be completed to nursery guidelines with approximately 5g per m², and will be completed in autumn or spring, between March and November, with seed hand-sown, and rolled or treaded in.
- 4.5 In the first year, the seed will be topped in March and May to promote target species growth with arisings removed immediately. A late summer (September) cut will be taken down to 150mm post-flowering and seed setting. Arisings will be allowed to remain on site for one week (to allow seed to drop) before removal.

Tree planting

- 4.6 For further information on tree planting and management, please refer to the Woodland Management Plan (WWE20037 WMP Rev A).
- 4.7 Trees will be planted within the appropriate growing season (i.e. winter, outside of frosts).
- 4.8 Each specimen will be provided with support and guard, as appropriate to the specimen and location.
- 4.9 Tree guards, stakes and bindings will be removed once they have become irrelevant to prevent them hindering growth or causing damage to the trees. This may be several years following planting, and will be dependent on growth.

Table 1 - Phase 2 planting schedule

Species	English Name	Number
Large feathered trees		
<i>Alnus glutinosa</i>	Common alder	19
<i>Quercus robur</i>	Pedunculate oak	30
<i>Sorbus aucuparia</i>	Rowan	32
Small feathered trees		
<i>Alnus glutinosa</i>	Common alder	85
<i>Betula pendula</i>	Silver birch	80
<i>Betula pubescens</i>	Hairy birch	60
<i>Quercus petraea</i>	Sessile oak	145
<i>Quercus robur</i>	Pedunculate oak	74
<i>Sorbus aucuparia</i>	Rowan	51
Transplants (within mass planting beds) total no 3,950		
<i>Alnus glutinosa</i>	Common alder	103
<i>Betula pendula</i>	Silver birch	78
<i>Betula pubescens</i>	Hairy birch	78
<i>Corylus avellana</i>	Hazel	335

<i>Crataegus monogyna</i>	Hawthorn	143
<i>Ilex aquifolium</i>	Holly	171
<i>Prunus spinosa</i>	Blackthorn	105
<i>Quercus petraea</i>	Sessile oak	180
<i>Quercus robur</i>	Pedunculate oak	104
<i>Sorbus aucuparia</i>	Rowan	27

Table 2 - Phase 3 planting schedule

Species	English Name	Number
Standard trees		
<i>Alnus glutinosa</i>	Common alder	24
Large feathered trees		
<i>Alnus glutinosa</i>	Common alder	11
<i>Quercus robur</i>	Pedunculate oak	27
<i>Sorbus aucuparia</i>	Rowan	17
Small feathered trees		
<i>Alnus glutinosa</i>	Common alder	43
<i>Betula pendula</i>	Silver birch	57
<i>Betula pubescens</i>	Hairy birch	75
<i>Quercus petraea</i>	Sessile oak	120
<i>Quercus robur</i>	Pedunculate oak	139
<i>Sorbus aucuparia</i>	Rowan	54
Transplants (within mass planting beds) total no 3,950		
<i>Alnus glutinosa</i>	Common alder	240
<i>Betula pendula</i>	Silver birch	180
<i>Betula pubescens</i>	Hairy birch	195
<i>Corylus avellana</i>	Hazel	612
<i>Crataegus monogyna</i>	Hawthorn	279
<i>Ilex aquifolium</i>	Holly	127
<i>Prunus spinosa</i>	Blackthorn	240
<i>Quercus petraea</i>	Sessile oak	209
<i>Quercus robur</i>	Pedunculate oak	212
<i>Sorbus aucuparia</i>	Rowan	148

5 TIMETABLE OF WORKS

5.1 This section includes timetable to show phasing construction activities to avoid periods of the year when protected wildlife could be harmed and timetables for the implementation of the mitigation measures set out in the Habitat Management Plan.

Table 3 – Timetable for Phase 2

Date	Activity	Details	Responsible persons
January 2021 (pre-construction phase)	Installation of protective fencing and root protection zones around retained trees	- Erection of fences around trees to create root protection zones, where appropriate and as highlighted by the Tree Protection Plan. - Fencing must be maintained throughout the construction phases.	Bike Park Wales appointed contractor under guidance of project ecologist and arboriculturalist
January 2021 (pre-construction phase)	Hibernacula construction	- Construction of 4 habitat piles (using brash from scrub clearance below) with two of these to be hibernacula (digging out a shallow area, infilling with rubble/loose hard core and brash, with further brash and soil covering). - These will be located outside of the construction footprint to the north of the main car park.	Bike Park Wales appointed contractor under guidance of project ecologist
January - March 2021 (pre-construction phase)	Scrub clearance in areas concerned with early Phase 2 works only (section of main car park area – i.e. area marked as Area A within Figure 1)	- Pre-commencement checks for nesting birds and other protected species, though timing removal early in the season will minimise the risk of impacts on nesting birds. Litter layers where present will be checked for hedgehogs also (with these if found relocated to safe areas outside the construction footprint). - If any nesting birds are found, these will be retained until young have fledged/the nest becomes inactive. If any EPS species are found, works will cease until a NRW licence can be obtained and mitigation is in place. - Larger branches and brash to be removed and used for log piles and hibernacula.	Bike Park Wales appointed contractor under guidance/supervision of project ecologist and arboriculturalist
January - February 2021 (pre-construction phase) – cold temperature precautionary approach	One phase vegetation clearance within main car park area	- Vegetation will be cleared in a one phase approach (assuming reptiles will be in hibernation). - Vegetation will be cleared using a hand-held brush cutter or strimmer (as appropriate) operated by a fully ecologically briefed contractor. - The vegetation will be cut to ground level from the east towards the west, with tussocks retained and checked. Tussocks will only be removed following ecological check and go ahead by onsite ecologist. - Full vigilance will be maintained by the operator. - Once ground level is reached, a check of the area will be made for signs of any below ground access (i.e. to hibernacula). Consideration of ground water levels (i.e. marshy areas will not be suitable for hibernation below ground) will be made, along with areas of compacted earth. - Any areas with suitable hibernation features will be searched using destructive techniques. - Any animals found will be placed within substrate/vegetation from the site within a cool box. Animals will then be relocated to hibernacula outside the construction footprint.	Bike Park Wales appointed contractor under guidance/supervision of project ecologist.

		- The surface will then be able to be excavated to form the trenching and car park. - Deep excavation or trenching will include a means of escape for animals.	
March -June 2021	Installation of 5x bat boxes	Installation of 5x bat boxes on existing mature trees	Bike Park Wales appointed contractor under guidance of project ecologist (as appropriate)
January 2021 - onwards	Construction phase; tree planting and wildflower seeding/planting – Phase 2 area only	- The appropriate avoidance measures, root protection measures and pollution control measures will be considered throughout the construction phase. - Planting will occur within the appropriate growing seasons (i.e. winter for new trees; spring/autumn for wildflower/grassland seeding)	Bike Park Wales appointed contractor under guidance of project ecologist (as appropriate)
Post Phase 2 completion	Compliance check	Measures within the HMP and this document will be checked for compliance, and remedial measures proposed and undertaken if necessary and appropriate.	Ecologist in liaison with Bike Park Wales management and contractor (as appropriate)

5.2 Phase 3 of the development is currently not scheduled to follow immediately after Phase 2, but will most likely commence 24 months after Phase 2 is completed. Therefore, the details of timings below are based around a theoretical calendar year, 2023. The year can be amended accordingly.

Table 4 – Timetable for Phase 3

Date	Activity	Details	Responsible persons
Pre-phase 3 commencing (any time)	Receptor site enhancement and creation of hibernacula	- Creation of 8 habitat piles (including 4 hibernacula) within receptor/retained areas - Structural management of vegetation to encourage tussocks	Bike Park Wales appointed contractor under guidance of project ecologist
Pre-phase 3	Installation of protective fencing for herpetofauna (pink fencing in Figure 1) and root protection zones around trees	- Erection of fences around trees to create root protection zones. - Fence must be maintained throughout the construction phase. - Installation of herpetofauna fencing	Bike Park Wales appointed contractor under guidance of project ecologist and arboriculturalist
February 2023 (pre-construction phase)	Check of receptor areas within site (including hibernacula)	Checks will be made and remedial measures as appropriate for enhancement of site	Bike Park Wales appointed project ecologist
February 2023 (pre-construction phase)	Check of protective fencing for herpetofauna and root protection zones around trees	- Checks will be made and remedial measures as appropriate - Fence must be maintained throughout the construction phase and throughout post-construction monitoring	Bike Park Wales appointed contractor under guidance of project ecologist and arboriculturalist
Prior to March 2023	Site preparation, including inspection of trees prior to felling	- This will include checks for nesting birds and roosting bats inside of any trees proposed for felling. - Precautionary check for dormice also. - If any EPS species are found, works will cease until a NRW licence can be obtained and mitigation is in place.	Bike Park Wales appointed project ecologist

March – May 2023	Translocation of onsite reptiles to receptor area (Area B in Figure 1, to north of yellow area/pink area; and Area C)	- Vegetation within translocation area will be trimmed in a two-phase cut to form islands within this area, under the direct guidance of the ecologist. - Vegetation will be cleared using a hand-held brush cutter or strimmer (as appropriate) operated by a fully ecologically briefed contractor. - The vegetation will be cut to 150mm on day 1 from the woodland at the south, towards the north (avoiding marked island areas). - Fully vigilance will be maintained by the operator. - The vegetation will then be cut to ground level on day 2, again from the south towards the north, and with full vigilance (and maintaining islands). - Reptile refugia will be deployed and retained until translocation is achieved. - Translocation will take place during the optimal period for reptile survey, with translocation continuing until 5 consecutive days of no reptiles being found.	Bike Park Wales appointed ecologist (translocation and supervision) and contractor (vegetation cut)
Spring 2023 – onwards (after reptile translocation is complete)	Construction phase; tree planting and wildflower seeding/planting	- The appropriate avoidance measures, root protection measures and pollution control measures will be considered throughout the construction phase. - Planting will occur within the appropriate growing seasons (i.e. winter for new trees; spring/autumn for wildflower/grassland seeding)	Bike Park Wales appointed contractor under guidance of project ecologist (as appropriate)
Immediately post-development	Protective fencing removal	Protective fencing will be removed.	Bike Park Wales appointed contractor under guidance of project ecologist (as appropriate)
Post Phase 3 completion (yearly in summer)	Compliance check	Measures within the HMP and this document will be checked for compliance, and remedial measures proposed and undertaken if necessary and appropriate.	Ecologist in liaison with Bike Park Wales management and contractor (as appropriate)

Table 5 – Timetable for post construction management of mitigation measures

Date	Activity	Details	Responsible persons
Spring and summer 2022 - 2026	Mowing of open grassland areas	Cuts to 150mm; directionally to minimise impacts on reptiles; using hand operated machinery (strimmers) with contractor maintaining good visual contact with ground to avoid impacting upon reptiles or other fauna. Arisings removed.	Bike Park Wales appointed contractor

Summer every other year post installation 2022, 2024, 2026	Checks of bat boxes and hibernacula	Remedial measures as appropriate	Bike Park Wales appointed contractor; ecologist
January every other year post planting 2023, 2024, 2026	Tree health check	Remedial measures as appropriate	Bike Park Wales appointed arboriculturalist
January 2026	Tree health and diversity check	A check to ensure the 10-year landscape maintenance programme does not require any adjustments; or adjustments made as required.	Bike Park Wales appointed arboriculturalist
Autumn 2030	Management plan review	Review and collation of the data accumulated in relation to the management plan; formulation of the next 10-year period 2029-2039; and agreement with the LPA.	Bike Park Wales management team; arboriculturalist; ecologist

6 ROLES AND RESPONSIBILITIES

- 6.1 This section aims to address item g) within the planning condition i.e. persons responsible for:
- vi) Compliance with legal consent relating to nature conservation;
 - vii) Compliance with planning conditions relating to nature conservation;
 - viii) Installation of physical protection measures during construction;
 - ix) Regular inspection and maintain of physical protection measures and monitoring of working practices during construction;
 - x) Provision of training and information about the importance of the 'Wildlife Protections Zones' to all construction personnel on site.
- 6.2 The client (Bike Park Wales manager) will be responsible for the compliance with legal consent relating to nature conservation, following advice from the retained ecologist.
- 6.3 The client will be also responsible for the compliance with planning conditions relating to nature conservation.
- 6.4 The client in liaison with an appropriate contractor and the ecologist, will be responsible for the installation of physical protection measures during construction.
- 6.5 The client in liaison with the contractor, will be responsible for the regular inspection and maintain of physical protection measures and monitoring of working practices during construction.
- 6.6 The client will be responsible for the provision of training and information about the importance of the 'Wildlife Protections Zones' to all construction personnel on site. The ecologist will provide this information (see 6.8).
- 6.7 The client will engage specialist contractors to ensure installation of physical protection measures and the regular inspection and maintain of physical protection measures and monitoring of working practices during construction.
- 6.8 The client will appoint an Ecological Clerk of Works (ECoW) (suitably qualified ecologist) to ensure compliance with legal consent and planning conditions relating to nature conservation.
- 6.9 The client will appoint an Ecological Clerk of Works (ECoW) to provide the provision of training and information about the importance of the 'Wildlife Protections Zones' to all construction personnel on site.
- 6.10 The client will be responsible for monitoring communications between all relevant parties to the project ensuring that all environmental matters to the project are discussed and managed.
- 6.11 As outlined in the HMP:
- Bike Park Wales is responsible for ensuring that all management and maintenance requirements are met, Furthermore, they are responsible for reviewing the management plans based on evidence gathered during regular inspections and, if necessary, make the appropriate changes to the plans to ensure continued functionality of the woodland.

7 BAT BOX LOCATIONS

- 7.1 Details of the location for 5 bat boxes are outlined below.
- 7.2 Five Schwegler Type 2FN bat boxes will be installed within wooded areas on trees that do not already have bat features on them (Figures 3 and 4). The project ecologist will provide on the ground guidance for the elevation and height of installation.
- 7.3 It is recommended the bat boxes are installed on trees in areas of woodland where public access is prevented or where they are least likely to experience disturbance.
- 7.4 Each bat box should be sited within a wooded area and is best positioned at a height of between 3 to 6 metres above the ground. Bat boxes should ideally be sited in open positions with a free flight access to the entry point to facilitate bat use. There will be no lighting of these areas.
- 7.5 The bat boxes installed at the site should be inspected every 2 years (between May and September) by a suitably qualified ecologist. Due to the opening on the bottom, this bat box does not require cleaning.
- 7.6 If any maintenance of the trees where the boxes are installed, or if the boxes themselves require repair/replacement, then the client will consult with the ecologist to ascertain if any mitigation and/or licensing (NRW) is required for the works to occur.

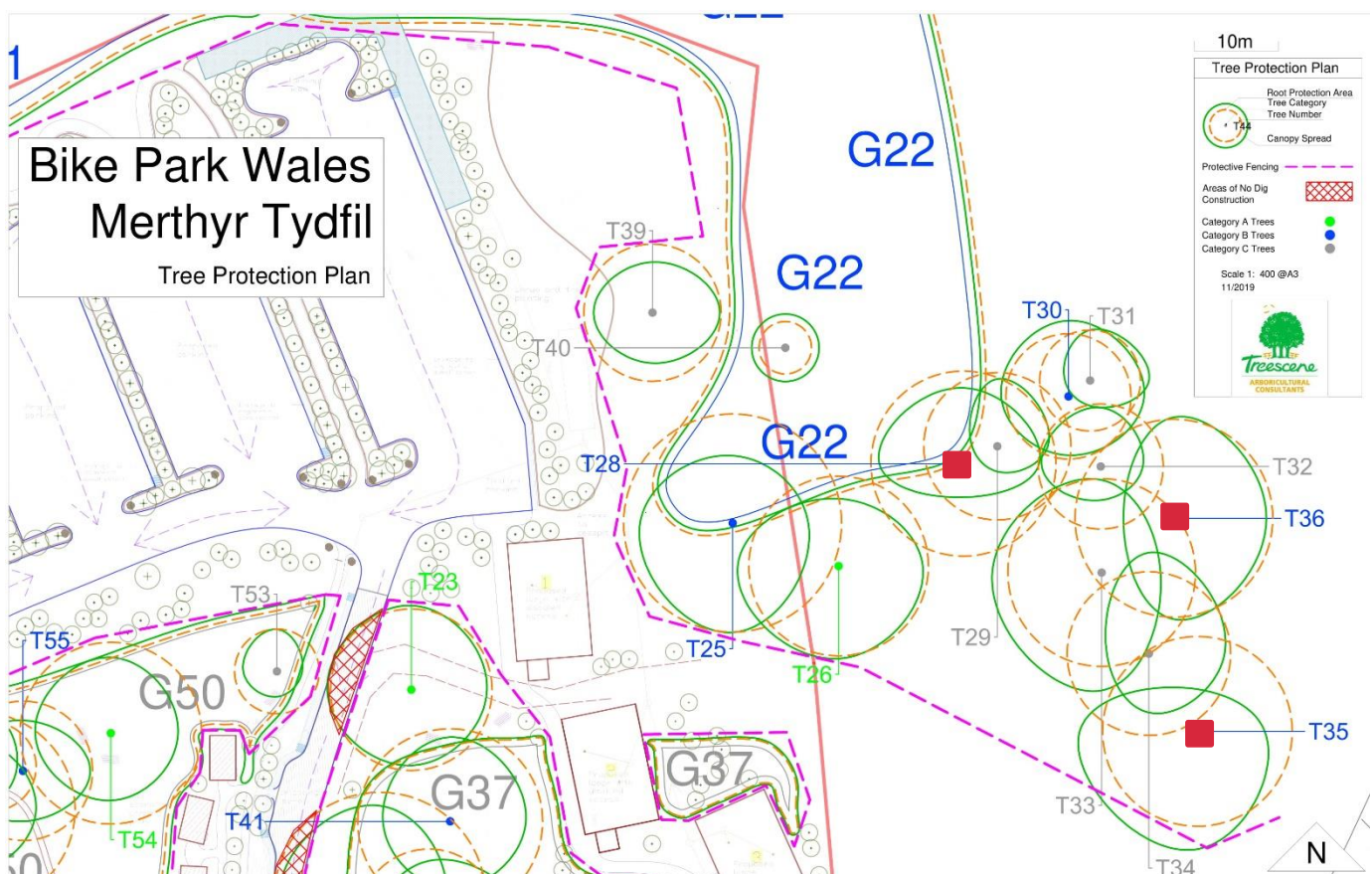


Figure 3 – Recommended bat box location (red squares)

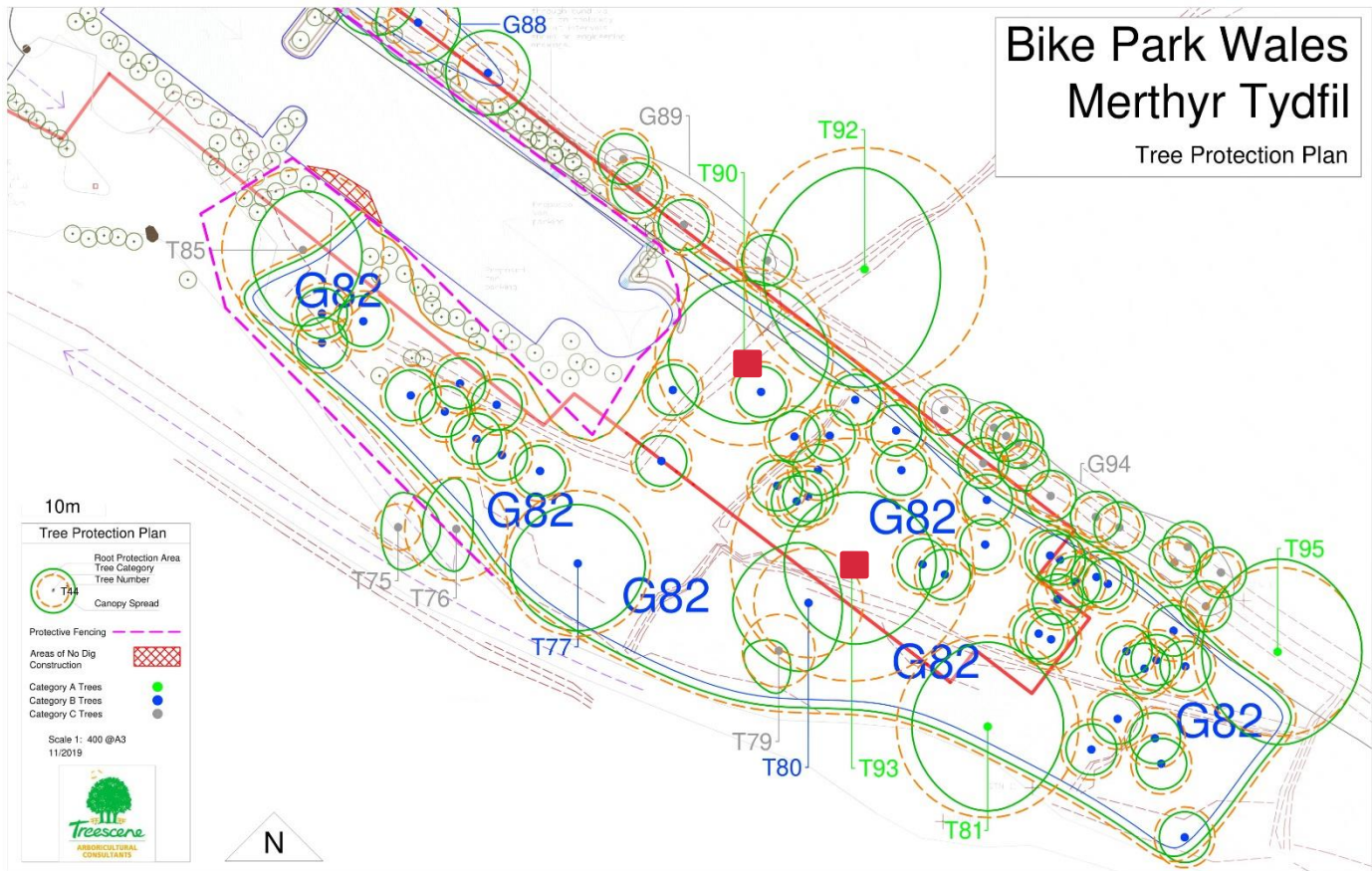


Figure 4 – Recommended bat box location (red squares)

APPENDIX I: LANDSCAPE PLAN



DETAILED LANDSCAPE PROPOSALS MASTERPLAN

NOTES ON THE DETAILED LANDSCAPE PROPOSALS MASTERPLAN

SCALE



APPENDIX III: PROPOSED SUB-PHASING OF PHASE 2 WORKS

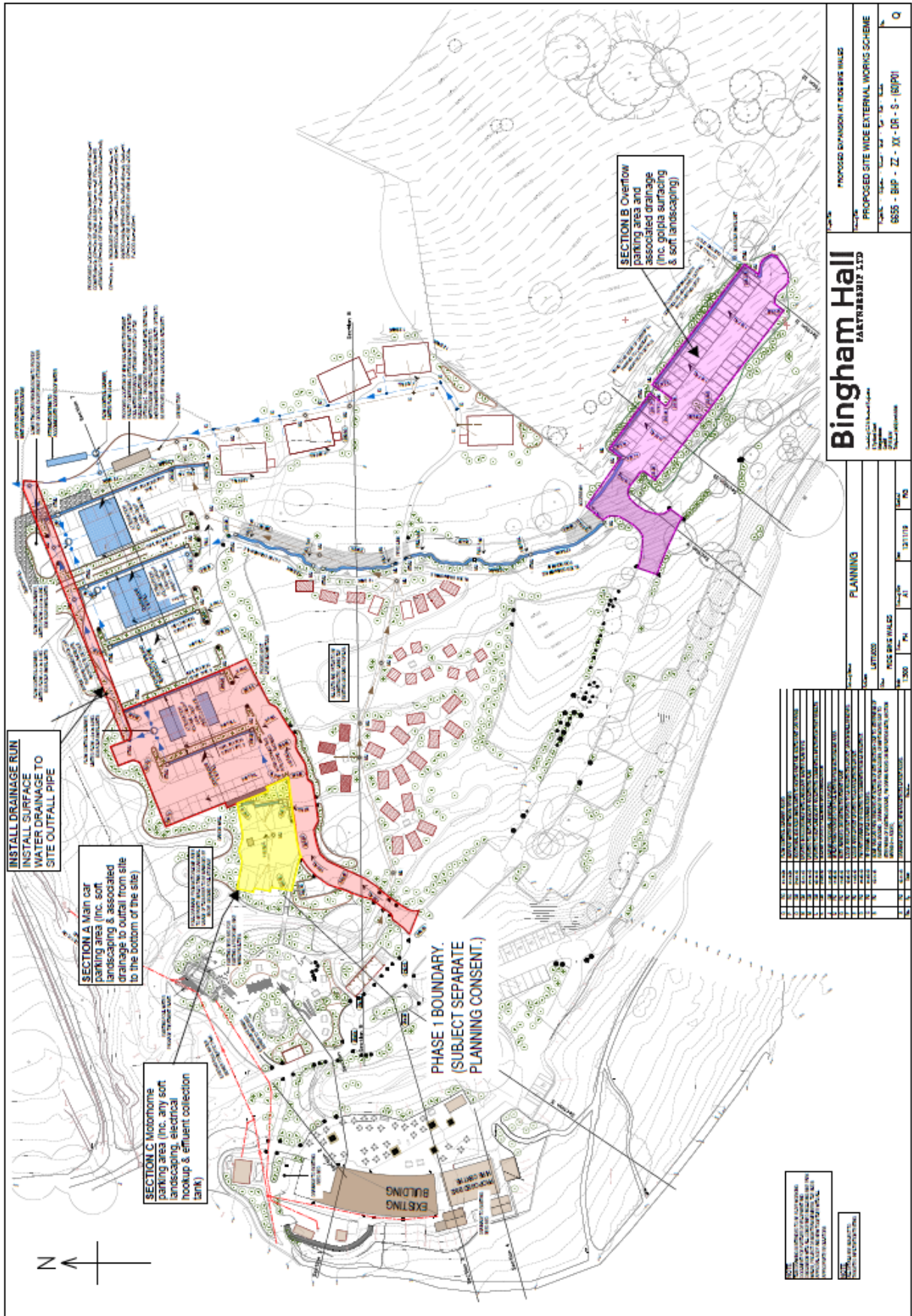


Figure 5 – The works will commence within the red area, followed in subsequent months/years by the yellow and purple areas, and then the camping pods and associated infrastructure.