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Quality Assurance

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Bat emergence survey	Lucy Boyett (Lead surveyor, Enfys Ecology Ltd)	10/05/22 & 31/05/22

Review Schedule				
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1.0	17/06/22	Max Ellson	Tom Knight	Tom Knight

This report has been prepared by Marches Ecology with all reasonable skill, care and diligence within the terms of the Contract with the client.

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The evaluation and assessment provided in this report is specific to the iteration of the proposal detailed in *Section 1*. It would no longer be valid should the layout be changed in anyway, should the report be used for a different proposal at the same site or should it be used a maximum of 12 months after the date of issue.

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Figure 1 – Extended Phase 1 Habitat Survey

1 INTRODUCTION

1.1 Project Background

1.1.1 Marches Ecology was commissioned by Mrs Helen Garrett to undertake an Ecological Appraisal of Silverdale, Tainant, Penycae, Wrexham, LL14 1UG (approximate OS Grid Ref. SJ 2720 4639). This Ecological Appraisal (EA) comprised an ecological background data search, Extended Phase 1 Habitat Survey and Preliminary (bat) Roost Assessment (PRA) of the existing domestic dwelling/ associated structures, and two subsequent bat emergence surveys. This report is provided as supporting information to a planning application to Wrexham County Borough Council (WCBC) for a replacement dwelling.

1.1.2 This report has three key aims:

- to provide an initial appraisal of the ecological value of the site and local ecological resource and thereby identify ecological constraints relevant to the proposal;
- to identify further surveys that may be required; and
- to identify potential mitigation/ compensation measures where possible along with opportunities to deliver ecological enhancement.

The structure of this Ecological Appraisal is based on the guidance provided in the Chartered Institute of Ecology and Environmental Management (CIEEM) documents CIEEM (2017a) and CIEEM (2017b).

1.2 Report Author

1.2.1 This report was produced by Max Ellson of Marches Ecology. Max Ellson is an ecologist with over twenty years of consultancy experience and has undertaken Extended Phase 1 Habitat Surveys on a wide range of sites. His relevant academic qualifications and professional memberships are as follows:

- Chartered Environmentalist (Society for the Environment).
- Full Member of the Chartered Institute of Ecology and Environmental Management (CIEEM).
- MSc Vegetation Survey and Assessment.
- BSc (Hons) Environmental Biology.

1.2.2 The bat survey/ reporting was led by Enfys Ecology Ltd. Reporting for the PRA by Rhian Hughes, reviewed by Keymar Wake. Reporting for the bat emergence surveys by Jane Kingsley, reviewed by Rhian Hughes.

1.3 Site Description and Context

1.3.1 The survey site extends to less than 0.1 hectares (ha); it is understood this reflects the 'redline planning boundary' (refer to *Section 1.4*). This comprises the existing domestic dwelling and associated garden curtilage of Silverdale. It is entirely surrounded by wooden fencing.

1.3.2 The survey site is located in a rural location, adjacent to an unnamed road to the west of Tainant, and approximately 1.4 km northwest of the centre of Penycae. The road abuts the eastern side of the survey site; further east lies agricultural fields. Another domestic dwelling/ garden is located to the north; further domestic dwellings are also located on the opposite side of the road to the northeast. A stream (Nant y Crogfryn) corridor is located to

the immediate west. A dry ditch corridor separates the survey site from an improved grassland field to the south.

1.4 The Development

1.4.1 The proposed development comprises demolition of the existing domestic bungalow and the construction of a subsequent replacement dwelling; it is illustrated on a series of Frame Architects plans as follows:

- Drawing no. 21-54_A001, dated 16.08.21 and entitled '*Location Plan*' (this indicates the redline planning boundary);
- Drawing no. 21-54_A002, dated 12.11.21 and entitled '*Existing Site Plan*' (again, this indicates the redline planning boundary);
- Drawing no. 21-54_A003, dated 06.11.21 and entitled '*Existing Ground Floor Plan*';
- Drawing no. 21-54_A004, dated 06.11.21 and entitled '*Existing Elevations*';
- Drawing no. 21-54_A101_RevB, entitled '*Proposed Site Plan*';
- Drawing no. 21-54_A102_RevA, entitled '*Proposed Floor Plans*'; and
- Drawing no. 21-54_A300_RevB, entitled '*Proposed Elevations*'.

1.4.2 These plans indicate the proposals in detail. Drawing no. 21-54_A101_RevB indicates that the replacement dwelling will be larger than the existing one, largely extending to the full north-south width of the site. The remaining land will be utilised as a garden with a remodelled driveway/ access point to the front and a patio to the rear. The exiting roadside fence will be replaced with a boundary wall with fencing panels.

1.4.3 No details on the approximate time scale/ duration of the construction phase have been provided to inform this report. No further detail with regards the proposed development has been provided at this stage.

1.5 Planning Policy

Introduction

1.5.1 This section provides a brief summary of key national and local planning policies. It is not a comprehensive review of all such planning policy, the intention being to identify those considered to be of most relevance to ecology and provide context for the proposal.

Wales

Planning Policy Wales

1.5.2 Planning Policy Wales (PPW) sets out national land use planning policies (Welsh Government 2021). Chapter 6 is of particular relevance (though it is complementary to other themes within the document) and is entitled 'Distinctive and Natural Places'.

With specific reference to development proposals the following key statement is made:

'Development plan strategies, policies and development proposals must consider the need to:

- *support the conservation of biodiversity, in particular the conservation of wildlife and habitats;*
- *ensure action in Wales contributes to meeting international responsibilities and obligations for biodiversity and habitats;*

- *ensure statutorily and non-statutorily designated sites are properly protected and managed;*
- *safeguard protected and priority species and existing biodiversity assets from impacts which directly affect their nature conservation interests and compromise the resilience of ecological networks and the components which underpin them, such as water and soil, including peat; and*
- *secure enhancement of and improvements to ecosystem resilience by improving diversity, condition, extent and connectivity of ecological networks’.*

Furthermore, it states that:

- *‘It is important that biodiversity and resilience considerations are taken into account at an early stage in both development plan preparation and when proposing or considering development proposals’.*
- *‘All reasonable steps must be taken to maintain and enhance biodiversity and promote the resilience of ecosystems and these should be balanced with the wider economic and social needs of business and local communities. Where adverse effects on the environment cannot be avoided or mitigated, it will be necessary to refuse planning permission’.*

Use of the mitigation hierarchy is emphasised:

‘Planning authorities must follow a stepwise approach to maintain and enhance biodiversity and build resilient ecological networks by ensuring that any adverse environmental effects are firstly avoided, then minimized, mitigated, and as a last resort compensated for; enhancement must be secured wherever possible’.

- 1.5.3 Areas that Chapter 6 covers include biodiversity and resilience of ecosystems duty, designated sites, maintaining and enhancing biodiversity, protected species, specific habitats/ areas, sustainable drainage systems (SuDS), green infrastructure, air quality, lighting, and de-risking development.

Technical Advice Note 5

- 1.5.4 PPW is supplemented by a series of Technical Advice Notes (TAN). TAN 5 covers 'Nature Conservation and Planning' (Welsh Government 2009). It provides advice to local planning authorities on how the land use planning system should contribute to protecting and enhancing biodiversity and geological conservation. It includes chapters covering the key principles of planning for nature conservation; the preparation and review of development plans; nature conservation in development control procedures; the conservation of internationally and nationally designated sites, habitats and local sites; and the conservation of protected and priority habitats and species.

- 1.5.5 In paragraph 2.4 it states that *‘...when deciding planning applications that may affect nature conservation, local planning authorities should:*
- *pay particular attention to the principles of sustainable development, including respect for environmental limits, applying the precautionary principle, using scientific knowledge to aid decision making and taking account of the full range of costs and benefits in a long term perspective (PPW 2.2.1¹);*

¹ References to the relevant part of PPW.

- *contribute to the protection and improvement of the environment, so as to improve the quality of life and protect local and global ecosystems, seeking to avoid irreversible harmful effects on the natural environment (PPW 2.3.2);*
- *promote the conservation and enhancement of statutorily designated areas and undeveloped coast (PPW 2.3.2);*
- *ensure that appropriate weight is attached to designated sites of international, national and local importance (PPW 5.3.2);*
- *protect wildlife and natural features in the wider environment, with appropriate weight attached to priority habitats and species in Biodiversity Action Plans (PPW 5.2);*
- *ensure that all material considerations are taken into account and decisions are informed by adequate information about the potential effects of development on nature conservation (PPW paragraphs 5.5.1 and 5.5.2);*
- *ensure that the range and population of protected species is sustained (PPW 5.2.3, 5.5.11 and 5.5.12);*
- *adopt a step-wise approach to avoid harm to nature conservation, minimise unavoidable harm by mitigation measures, offset residual harm by compensation measures and look for new opportunities to enhance nature conservation; where there may be significant harmful effects local planning authorities will need to be satisfied that any reasonable alternative sites that would result in less or no harm have been fully considered (PPW 5.2.2, 5.2.7 and 5.5.2).*

Wrexham

- 1.5.6 Local planning authorities will consider biodiversity/ nature conservation issues in accordance with adopted policies and plans. The following are considered of particular relevance to the proposal.

Wrexham Unitary Development Plan

- 1.5.7 The Wrexham Unitary Development Plan (UDP) was adopted in February 2005. It will be replaced by the Local Development Plan. The UDP '*...provides a framework for local decision making and the reconciliation of development and conservation interests...*'.

Relevant strategic and general development policies include:

- *Policy PS2. Development must not materially detrimentally affect countryside, landscape/townscape character, open space, or the quality of the natural environment.*
- *Policy PS11. Encouragement will be given to proposals which improve the biodiversity value of sites and to the establishment of local nature reserves where the nature conservation and landscape interest of the land will be protected and enhanced.*
- *Policy GDP1f). Ensure the safety and amenity of the public and safeguard the environment from the adverse effects of pollution of water, land or air, hazards from industry and quarrying, and associated noise, odour or vibration arising from development.*
- *Policy GDP1h). Safeguard sites and areas of nature conservation and wildlife interest, and to provide new habitats where there is an unavoidable loss of existing habitats and areas of wildlife interest.*

Section 5 of the UDP concerns 'Environment and Conservation'. The relevant policies listed are as follows:

- *Policy EC4. Development proposals should provide for the conservation and management of hedgerows, trees, orchards, woodland, wildlife and other natural landscape and water features, and include new planting in order to enhance the character of the landscape and townscape. Development which results in the loss or significant damage to valuable trees, important hedgerows or ancient woodland sites will not be permitted.*
- *Policy EC6. Development either within or close to sites of biodiversity interest will only be permitted where it can be clearly demonstrated that the need for the development outweighs the need to safeguard the intrinsic nature conservation value of the site. Where such development is permitted, damage should be kept to a minimum, and compensatory measures should be provided. Measures to improve the biodiversity value of sites and enhance their natural conservation interest and landscape quality including the establishment of local nature reserves, will be supported.*
- *Policy EC13. Development which would result in an unacceptable adverse impact on the water environment due to additional surface water run-off will not be permitted.*
- *Policy EC14. Development which would have an unacceptable adverse impact upon the capacity, flow, quality or availability of controlled waters and associated land will not be permitted.*

Local Planning Guidance

- 1.5.8 Wrexham County Borough Council (WCBC) has produced a series of supplementary planning guidance documents which set out detailed advice on the way in which Development Plan policies will be applied. Supplementary planning guidance is a material consideration in the determination of planning applications for development. The following Local Planning Guidance (LPG) notes are of particular relevance:
- LPG 17 Trees and Development. Adopted September 2000, Updated December 2012. Provides further advice in relation to UDP policy EC4.
 - LPG 32 Biodiversity and Development. Adopted March 2011. Provides further advice in relation to UDP policies PS2, PS11, EC4 and EC6. Of particular importance it details the requirements for ecological survey and reporting.
- 1.5.9 The Wrexham Biodiversity Action Plan (WBAP) is also listed as supplementary planning guidance on the WCBC website. This reference is out-of-date, the WBAP has been archived and is no longer available.

1.6 Legislation

Introduction

- 1.6.1 This sub-section provides a brief summary of key legislation relevant to ecology/ nature conservation and the development. It should not be considered a comprehensive review and is not meant to be so. It is provided here for information only and is not intended to replace specialised legal advice. It does not replace the text of the legislation but summarises the salient points. Further information on how this legislation affects the protection of particular species is provided in *Appendix 1*.

***The Conservation of Habitats and Species Regulations 2017 (The Regulations)*²**

- 1.6.2 Transposed the *EC Directive 92/43/EEC on the Conservation of Natural Habitats and of Wild Fauna and Flora 1992* into UK law. The Regulations provide for the protection of sites in the UK that support habitats and species of European importance (e.g. Special Protection Areas (SPAs) and Special Areas of Conservation (SACs)). The Regulations also provide full protection for certain species which are frequently referred to as European Protected Species (EPS). EPS of potential relevance to the site include bats and Great Crested Newt (*Triturus cristatus*).

The Wildlife and Countryside Act 1981, as amended (WCA)

- 1.6.3 The WCA strengthened protection for nature conservation sites of at least national importance and provides varying levels of protection for a number of species within the UK. This protection may include prohibition of some or all of: killing, injuring, disturbing, taking, sale/barter or possession of species and also protection of breeding/ sheltering places. The following species/ species groups that receive some level of protection under the WCA and are of potential relevance to the proposal include Badger (*Meles meles*), bats, Great Crested Newts, reptiles and birds. The WCA also prohibits the spread of certain non-native invasive species.

The Countryside and Rights of Way Act 2000 (The CROW Act)

- 1.6.4 The CROW Act includes legislation in relation to the Biodiversity Action Plan; more stringent management, protection and consenting measures for SSSIs; greater penalties for wildlife crime; and greater protection for species listed in the WCA. Some of this legislation was superseded by the NERC Act.

The Natural Environment and Rural Communities Act 2006 (The NERC Act)

- 1.6.5 Sections 40 to 42 of the NERC Act replace Section 74 of the CROW Act. Section 40 of the NERC Act extends to all public authorities (including local planning authorities) the existing Section 74 duty to have regard to biodiversity as far as is consistent with the proper exercise of their functions. In addition, Sections 41 (England) and 42 (Wales) provide a list of species and habitats of principal importance for conservation of biological diversity. Government has a statutory duty to promote steps "to further the conservation" of habitats and species listed in Sections 41 and 42.

Environment (Wales) Act 2016

- 1.6.6 The Environment Act enhances and replaces the current NERC Act (Section 40) duty to require all public authorities, when carrying out their functions in Wales, to seek to 'maintain

² Amended in line with EU Exit by *The Conservation of Habitats and Species (Amendment) (EU Exit) Regulations 2019*.

and enhance biodiversity' where it is within the proper exercise of their functions. In doing so, public authorities must also seek to 'promote the resilience of ecosystems'. *Section 7* of the Environment Act provides a list of the living organisms and habitats of principal importance for the purpose of maintaining and enhancing biodiversity in Wales. This list replaces that previously provided in *Section 42* of the NERC Act.

The Protection of Badgers Act 1992 (The Badgers Act)

- 1.6.7 The Badgers Act provides for the protection of Badgers and their setts. This legal protection is provided for welfare rather than the conservation value of the species.

2 METHODOLOGY

2.1 Desk Study

2.1.1 A desk study was undertaken to provide background information on the ecological status of the survey site and its surroundings (a 1 km search area centred on the site was defined). Information was requested from Cofnod. Information sought included designated (nature conservation) sites, Ancient Woodland/ other habitats, legally protected species and other species of nature conservation interest. In addition, contextual information available on the MAGIC environmental database (<http://magic.defra.gov.uk/>) was consulted.

2.1.2 Cofnod provide two sets of records – a ‘Confidential’ set which is not authorised for release into the public domain, and a ‘Public Version’ where the accuracy of some of the grid references has been reduced. The Confidential data set has been issued to the client as part of this study; ‘Public Version’ records are utilised in this document (the full report of which is provided as *Appendix 2*).

2.2 Field Survey

Extended Phase 1 Habitat Survey

2.2.1 The Extended Phase 1 Habitat Survey was carried out on 25th November 2021 by Max Ellson of Marches Ecology. The Extended Phase 1 Habitat plan is provided as *Figure 1*. The survey focussed on land within the site boundary (the ‘survey site’, refer to *Figure 1*), this is understood to correspond to the ‘redline planning boundary’. Immediately adjacent habitat was considered where deemed appropriate and viewed from the survey site boundary where possible. The weather during the survey was sunny and cold; there had been a frost overnight.

2.2.2 Phase 1 Habitat Survey involves identifying areas or features of particular interest either in terms of their botanical interest, and/or habitat potential for protected or other notable species that are likely to occur in the region and within the survey site. The Phase 1 Habitat Survey has been adapted in this instance as an ‘extended’ Phase 1 Habitat Survey, where more information has been obtained to inform site assessment. The methods used centre on the Phase 1 Habitat Survey approach (JNCC 2010) as extended for use in Environmental Impact Assessment (Institute of Environmental Assessment 1995). Extended Phase 1 Habitat Survey involves the following elements:

- Habitat mapping using a set of standard colour codes to indicate habitat types on a Phase 1 Habitat map.
- Description of features of ecological or nature conservation interest in notes relating to numbered locations on the Phase 1 Habitat map, called target notes.

2.2.3 In addition to the habitat map and target notes, a plant species list was compiled³ (provided in *Table 3, Section 8*). Plant nomenclature in this report follows Stace (2010). Although November is outside the accepted survey period for Extended Phase 1 Habitat Surveys, it is unrealistic to suppose that walk-through surveys can generate completely exhaustive species lists at any time of year. It is considered that the list in this report indicates the character of the vegetation and the ecological value of the area inspected.

³ This should not be deemed a comprehensive record of ornamental/ garden plants/ varieties.

2.2.4 Further information describing the assessment conducted during the Extended Phase 1 Habitat Survey for particular species is provided briefly below:

- Badger. Areas within the survey site that might be used by Badger for foraging and sett building were assessed. Incidental foraging signs, tree scratching, paths, latrines and setts were recorded if found (Harris *et al.*, 1989).
- Bats. The potential value of the habitat for foraging/ commuting and roosting was assessed in accordance with *Table 4.1* provided in Collins (2016).
- Otter. The assessment method was adapted from that described in JNCC (2004a).
- Great Crested Newts. The quality of terrestrial and aquatic habitat for Great Crested Newts was assessed. The assessment of aquatic habitat was based on the Habitat Suitability Index (Oldham, *et al.* 2000).
- Reptiles. A qualitative assessment of the habitat for reptiles was undertaken. The survey involved identifying potential basking areas, hibernation sites and foraging habitat. English Nature (2004) provides information on the distribution and ecology of the four widespread species. Habitat requirements differ between species but are summarised in Edgar *et al.* (2010).
- Birds. The habitat within the survey site was assessed for its potential value for breeding birds based on guidance provided in *e.g.* JNCC (2004).

Preliminary Roost Assessment

2.2.5 The PRA was carried out on 25th November 2021 by Rhian Hughes (Natural Resources Wales (NRW) Bat licence number S087351/1). It was carried out following best practice guidelines (Collins, 2016). Photographic evidence was taken where necessary.

2.2.6 The domestic bungalow (*Target Note 2, Figure 1*), and associated outbuildings (2 no. sheds at *Target Notes 1 and 1a*) were assessed for any signs of bats (such as droppings, feeding remains, and scratches/ other indicative marks). Features of potential use to bats such as crevices, cracks and other holes, and any potential access points were also looked for. A high-powered torch was used to inspect any identified features, and an endoscope was used to investigate any gaps or crevices, where appropriate. Both the interior and exterior of the main building was examined; no internal access was provided to the sheds (see *Section 2.3*).

Bat Emergence Surveys

2.2.7 Two dusk emergence surveys were carried out on 10th May 2022 and 31st May 2022, within the peak bat survey months of May to August (inclusive). This focused on the domestic bungalow (*Target Note 2, Figure 1*), and associated outbuildings (2 no. sheds at *Target Notes 1 and 1a*).

2.2.8 During the emergence surveys, the buildings were monitored by two surveyors on the first survey and three surveyors on the second survey, led by Lucy Boyett (accredited agent under NRW Bat licence number S090407/1). Records were taken of any bats that were observed emerging from the buildings, and of any other bat activity taking place in the area during the survey. The surveyors used Batbox Duet, Anabat Scout and Anabat Express detectors to record any bat calls for further analysis. As per best practice guidelines (Collins, 2016), the dusk emergence survey began approximately 30 minutes before sunset and continued for approximately 90 minutes after sunset.

- 2.2.9 The PRA/ dusk emergence survey data is deemed to be valid for a period of 18 months from May 2022, in accordance with best practice.

2.3 Survey Limitations

- 2.3.1 The following may be considered survey limitations:

Extended Phase 1 Habitat Survey

- This was undertaken outside the recognised survey period. Some flowering plants will not have been visible or were otherwise difficult to identify.
- No access to areas outside the survey site boundary was provided.

PRA

- No internal access was provided to the 2 no. sheds at *Target Notes 1* and *1a*.

No specific limitations to the bat emergence surveys were noted.

None of the survey limitations listed above significantly affected the findings of the survey and therefore the conclusions. The surveys were conducted in accordance with a Covid-19 Risk Assessment. This did not give rise to any limitations at this site.

- 2.3.2 It should be noted that Bats are a difficult group to survey. They are highly mobile animals. Therefore, it cannot be guaranteed that bats will not move into the buildings following the PRA/ emergence surveys.

2.4 Evaluation

- 2.4.1 The ecological importance (value) of habitats and/or species is often assessed according to a number of widely used criteria of which perhaps the most frequently used are naturalness, extent, rarity, and diversity. For the purpose of this report the ecological importance of the habitat and species present on the site has been determined using the approach detailed in CIEEM (2018). Geographical context is used as a frame of reference for identifying the importance of ecological features. The frame of reference has the following categories: International/ European - National - Regional - Metropolitan/County/Vice-county/ other local-authority wide area - Local. Within this report Local is defined as relating to district or parish; less than local refers to features of value at a Site level.
- 2.4.2 Broadly speaking habitat importance should be determined by identifying designated sites, 'priority habitats' (as defined in CIEEM, 2017a) or by using published, ideally local, site selection criteria. The ecological importance of a species considers its distribution and legal or conservation status, the latter is mostly due to inherent rarity. 'Priority species' are also defined in CIEEM (2017a) and include legally protected species as well as those identified on various conservation lists.

3 BASELINE ECOLOGICAL CONDITIONS

3.1 Protected Sites

Statutory

- 3.1.1 There is a single combined statutory site within 1 km of the survey site: Ruabon/ Llantysilio Mountains and Minera Site of Special Scientific Interest (SSSI)/ Berwyn and South Clwyd Mountains Special Area of Conservation (SAC) located approximately 867 m to the west.
- 3.1.2 Ruabon/ Llantysilio Mountains and Minera SSSI extends to 4795 ha and *'is notified firstly on biological grounds⁴, for its heather moor, limestone and neutral grassland habitats and for its species interest comprising a range of upland breeding birds, rare and uncommon plants and the use of mines and caves by bats. as it contains three sites of special interest within its boundaries'*.
- 3.1.3 *Annex I* habitats given as a primary reason for selection of Berwyn and South Clwyd Mountains SAC, or as a qualifying feature, include European dry heaths, blanket bog, semi-natural dry grasslands and scrubland facies on calcareous substrates, transition mires and quaking bogs, calcareous and calcshist screes of the montane to alpine levels, and calcareous rocky slopes. No *Annex II* species are given as a primary reason for selection or as a qualifying feature.

Non-statutory

- 3.1.4 There is one non-statutory protected sites within 1 km of the survey site: Yew Tree Dingle Wildlife Site (WS) (Wrexham W223). This comprises the Nant y Crogfryn corridor to the west/ south of the survey site, and is located to the immediate west, within approximately 5-10 m at its closest point. The site is described as supporting *'Semi-natural broad-leaved woodland on the steep banks of the Nant y Croyfryn [sic.]. The canopy is dominated by ash, sycamore and sessile oak. Holly, hazel and wych elm are the most frequent shrubs in the understorey. The ground flora is species rich but bramble and dog's mercury are abundant. There are many wet flushes with marsh hawksbeard'*.
- 3.1.5 5 no. Ancient Semi-natural Woodland (ASNW) sites and 1 no. Restored Ancient Woodland (RAW) sites are located within the 1 km search area. The closest of these is a ASNW to the immediate west of the survey site which broadly corresponds with the Yew Tree Dingle WS at this location.

Bats

- 3.1.6 There are not known to be any protected sites for bats within 2 km of the survey site, although Ruabon/ Llantysilio Mountains and Minera Site SSSI supports *'A number of ... disused mines [which] are used by hibernating bats including the nationally uncommon lesser horseshoe bat....'*.

⁴ The site is also notified on geological grounds.

3.2 Habitats and Flora

Introduction

- 3.2.1 The Extended Phase 1 Habitat map is provided as *Figure 1*. The Target Notes (numbered 1 to 5 for the survey site and 6/ 7 for immediately adjacent land) are provided in *Section 6* and shown on *Figure 1*.

Amenity Grassland

- 3.2.2 The curtilage of Silverdale supports three small areas of garden lawn (amenity grassland). It is species-poor throughout. At *Target Note 4* this resource appears to be infrequently managed to 0.2 to 0.3 m high; it appears to be frequently disturbed. The sward is dominated by grasses including *Lolium perenne* (Perennial Rye-grass), *Holcus lanatus* (Yorkshire-fog) and *Festuca rubra* (red Fescue) with lesser amounts of *Dactylis glomerata* (Cock's-foot). Common grassland forbs scattered throughout at low levels of abundance include Creeping Buttercup and Common Dandelion, with occasional tall-herbs such as Common Nettle and *Senecio jacobaea* (Common Ragwort).
- 3.2.3 At *Target Note 4a* the resource is similar although the grass resource appears to be dominated by Perennial Rye-grass. There is various garden play equipment here (slide, trampoline).
- 3.2.4 The grass at *Target Note 4b* appears to be largely unmanaged and comprises long vegetation to 1 m high. There is various garden debris scattered here. The sward appears to be dominated by Yorkshire-fog with other grasses including *Agrostis capillaris* (Common Bent), *Elytrigia repens* (Common Couch), *Poa pratensis* (Smooth Meadow-grass) and *Anisantha sterilis* (Barren Brome). It is locally tussocky but remains species-poor; forbs and tall-herbs include Creeping Buttercup, Common Nettle, *Rumex obtusifolius* (Broad-leaved Dock) and *Anthriscus sylvestris* (Cow Parsley).



Amenity grass (lawn) at *Target Note 4a*.



Amenity grass (lawn) at the rear of the property (*Target Note 4*).

Other Habitats

3.2.5 Other habitats are restricted to the following resources:

- the domestic dwelling at *Target Note 2* and associated outbuildings (2 no. sheds) at *Target Notes 1* and *1a* (refer to PRA below);
- very small areas of ephemeral/ short-perennial vegetation (*Target Note 3*);
- hard-standing/ bare ground (e.g. *Target Note 5*); and
- boundary fences.

Immediately Adjacent Land

3.2.6 To the immediate south of the survey site, a narrow band of shrubs/ young trees (including *Fraxinus excelsior* (Ash), *Corylus avellana* (Hazel), *Rosa canina* agg. (Dog-rose) and *Ilex aquifolium* (Holly)) tall-herbs and a dry ditch are located (*Target Note 6*). Further south is an improved grassland field.



Dry ditch at Target Note 6.

- 3.2.7 A steep bank is located to the immediate west of the survey site at Target Note 7. This supports tall-herbs (*Urtica dioica* (Common Nettle) dominated?) and (near the survey site boundary) occasional shrubs/ young trees (Ash and *Sambucus nigra* (Elder)). The Nant y Crogfryn stream is located at the base of this slope, approximately 20 m from the survey site boundary. It was difficult view this area from the survey site boundary.



Target Note 7 to the immediate west of the survey site.

Flora

- 3.2.8 No notable plants were recorded during the survey (for example Locally Rare/ Scarce in Williams (2014), listed as above 'Least Concern' in Dines (2008), or listed in *Schedule 9* of the *Wildlife and Countryside Act 1981*).
- 3.2.9 None of the plant records provided by Cofnod are from within the survey site or immediately adjacent habitat. Several species of plant listed in *Schedule 9* of the *Wildlife and Countryside Act 1981* have been recorded from the 1 km search area: Cofnod provided records of *Cotoneaster horizontalis* (Wall Cotoneaster), *Lamium galeobdolon* subsp. *argenteum* (Variegated Yellow Archangel), *Rhododendron ponticum* (Rhododendron) and *Crocus x crocosmiflora* (Montbretia) (Variegated Yellow Archangel recorded from the same 1 km grid square as the survey site).

3.3 Species/ Species Groups**Badgers**

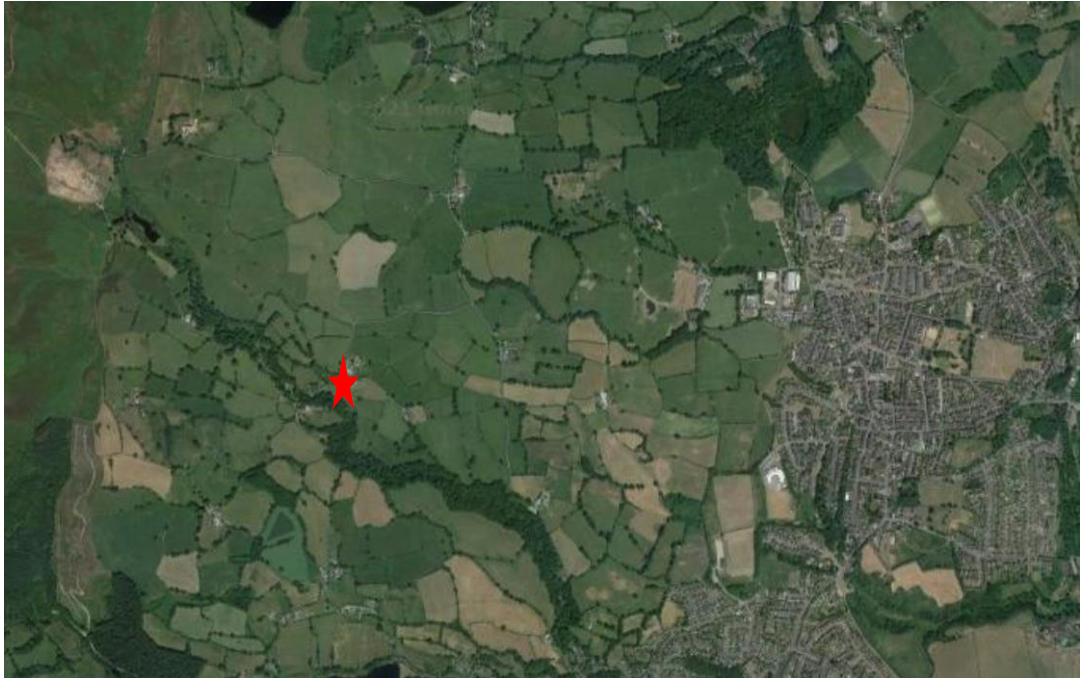
- 3.3.1 Cofnod provided two records of Badger from the 1 km search area, the closest of which is for a sett located approximately 550 m from the survey site.
- 3.3.2 No setts or evidence of Badger were recorded from the survey site. Opportunities for sett excavation are absent from the survey site itself, it being a small, well-used, domestic garden surrounded by wooden fences. Immediately adjacent habitats to the south, and particularly the west (sloping bank down to the Nant y Crogfryn stream) provide potential sett construction opportunities however. The wider agricultural land also provides foraging potential.

Bats*Contextual Information*

- 3.3.3 Cofnod provided one bat record for the 1 km search area: a 2005 record of *Chiroptera* 'bat' over 700 m from the survey site, no further information was provided.

Site Description

- 3.3.4 The survey site is located within a rural area. The wider area comprises pasture fields and hedgerows and a wooded valley with Nant Crogfryn running through, this is adjacent to the property and runs a total of 2 km from the north-west to Stryt Issa to the south-east.



The approximate location of the survey site (red star), and the surrounding habitat.
Base Image © Google 2021.

- 3.3.5 The bungalow at *Target Note 2* is highlighted with a solid red line in the photo below. The area immediately surrounding the building is a garden for the property, it comprises amenity grassland and hard-standing car parking areas with two sheds present. A wooded valley is located to the west of the site.



Aerial view of the building at *Target Note 2* and immediate surroundings.
Base Image © Google 2021.

Extended Phase 1 Habitat Survey

3.3.6 No trees with bat roost potential are located in/ immediately adjacent to the survey site.

3.3.7 The limited variety and complexity of habitats afforded by the survey site is considered to be of low (potential) value for commuting/ foraging bats (in accordance with Collins (2016)). However adjacent habitats/ the wider landscape at this location is of high potential value, particularly the Nant y Crogfryn corridor to the west.

Preliminary Roost Assessment

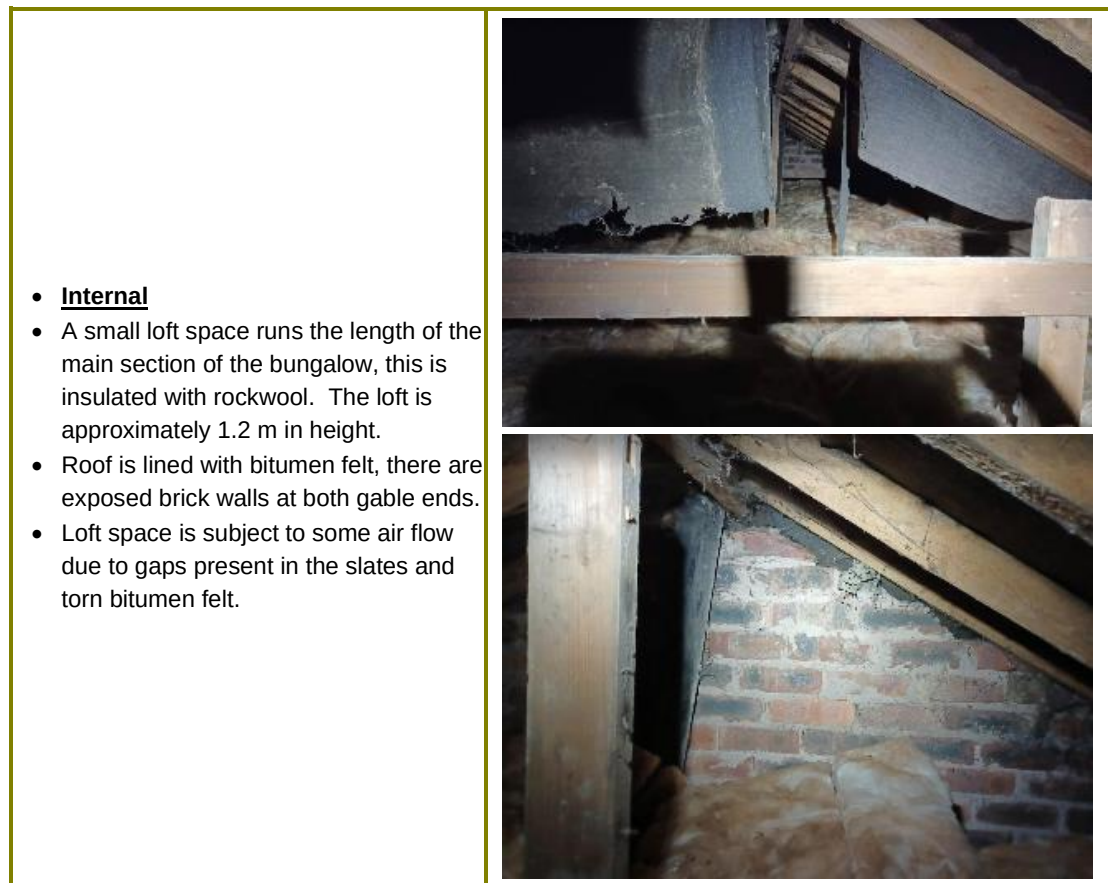
3.3.8 The main dwelling at *Target Note 2* is a rendered bungalow with a pitched slate roof and two sections of flat roof, one the eastern elevation (front porch) and a large flat roofed section to the rear/ west. *Tables 1a* and *1b* provide a general description and photos of the building/ structures at *Target Notes 1, 1a* and *2*.

Table 1a – Structures at Target Notes 1 and 1a.

Description	Photos
• Shed at <i>Target Note 1</i>. • A traditional timber shed with flat bitumen felt roof. • No windows present.	
• Shed at <i>Target Note 1a</i>. • A traditional timber shed with flat bitumen felt roof. • Windows present/ door present. • Used for storage.	

Table 1b – Building at Target Note 2.

Description	Photos
• External. • Approximately 8 x 5 m (main section) and 3 x 5 m for the western flat roofed section. • Rendered walls. • Fascias run along all sections of the building, apart from the gable ends. • Roof of the main section is a pitched slate roof.	 Eastern elevation.  North-western elevation.  Southern elevation.



3.3.9 The bungalow at *Target Note 2* has a number of Potential Roosting Features (PRFs) and or features which provide access into the building and loft space. The sheds at *Target Notes 1/1a* have limited PRFs in gaps behind the felt roofing.

3.3.10 Potential access points and roosting areas are described in *Table 2a* for the sheds, and *Table 2b* for the main bungalow (according to the following locations):

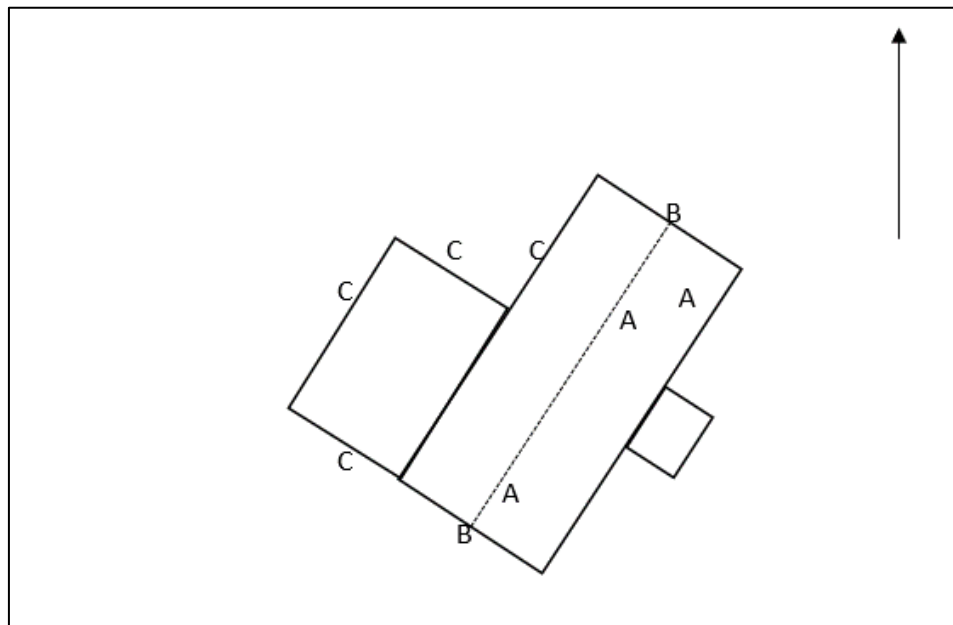


Table 2a – Potential Roosting Features & Access Points; Target Notes 1/1a

Location & Description	Photos
• <u>Sheds (example)</u> • Gaps behind felt.	

Table 2b – Potential Roosting Features & Access Points; Target Note 2

Location & Description	Photos
• <u>Loft -internal</u> • Ripped bitumen felt with exposed slates behind.	

• <u>Location A</u> • Small gaps present under ridge tiles and some raised slates.	
• <u>Location B</u> • Missing mortar from end of the gable.	



- 3.3.11 Evidence of bats was found in the bungalow at *Target Note 2*, both internally in the loft space, and also externally behind the fascias (see photos below). Bat droppings were found in both instances; in the loft there was a small collection of droppings towards the northern gable, these did not appear to be fresh.



Bat droppings in the loft.

- 3.3.12 Externally the droppings were located to the west of the property with droppings behind the fascia board and also on the wall. The void behind the fascia board appeared to be the height of the board but did not appear to gain access into the flat roof area.



Bat droppings behind the fascia.

- 3.3.13 From the evidence found, and the number of bat droppings present, it is considered that the bungalow is in use by a small number of bats. Neither of the roost areas identified suggest that the building is used as a maternity roost. The bat droppings were sent away for DNA analysis and the results show that they are Soprano Pipistrelle (*Pipistrellus pygmaeus*) – this was the case for both the samples from within the loft and behind the fascia.

Bat Emergence Surveys

- 3.3.14 *Table 3a* provides details of the 2 no. dusk surveys at Silverdale, including timing and weather conditions. *Table 3b* provides details of any emergences and general activity during both surveys; no emergence was recorded from the two sheds at *Target Notes 1/1a*.

Table 3a – Timing & Weather Conditions

Date	Sunset time	Temperature at start	End time	General weather conditions
10/05/22	20.55 hrs	12°C (20.25 hrs)	22.25 hrs	Dry, breezy.
31/05/22	21.26 hrs	12°C (20.56 hrs)	22.56 hrs	Dry, still, mild.

Table 3b – Dusk Survey Results

Date	Results
10/05/22	Summary: No bat emergence from buildings for the duration of the survey. 21:14 hrs. The first bat to be detected was a Soprano Pipistrelle that was seen but not heard. 21:19 and 21:31 hrs. Call on each occasion recorded from a Common Pipistrelle (<i>Pipistrellus pipistrellus</i>). 21:33 hrs. Two Soprano Pipistrelles heard and observed passing over the house from south to north. 21:51 hrs. A Common Pipistrelle observed flying south-west to north-east and back 22:04 hrs. Noctule bat (<i>Nyctalus noctula</i>) heard but not seen.
31/05/22	Summary: Single Soprano Pipistrelle emergence from bungalow. 21:25 hrs. 1 no. Soprano Pipistrelle emerged from under the fascia board of the flat roofed section on the south-west elevation (where droppings had been found during PRA) of the bungalow. An Anabat placed close by confirmed the species. It flew directly into the woodland to the south-west.



21:51 and 22:09 hrs. Four Common Pipistrelle calls heard.

21.59 to 22.45 hrs. Four Soprano Pipistrelle calls heard.

22.02 hrs. 1 no. Soprano Pipistrelle observed passing west to east down the side of the bungalow.

22:08 hrs: Noctule bat heard.

22:38 hrs. *Myotis* bat heard.

22.45 hrs. A number of Soprano Pipistrelle foraging calls heard.

Otter

- 3.3.15 Cofnod provided two Otter records for Penrycae reservoir (located approximately 900 m to the south of the survey site), dated 2018/19. No Otter records have been provided for the Nany y Crogfryn which runs to the west of the survey site. This minor watercourse was not subject to survey and was only viewed from the survey site boundary. It is located approximately 20 m from the survey site boundary at the base of a steep slope which is characterised by tall-herb vegetation in the vicinity of the survey site. It is possible that Otter could use this watercourse/ associated habitat corridor but if animal(s) do any such use is likely to be sporadic only.

Great Crested Newts

- 3.3.16 No Great Crested Newt (or other amphibian) records were provided by Cofnod for the 1 km search area.
- 3.3.17 There is no aquatic habitat (suitable for breeding amphibians) within the survey site and or immediately adjacent land.
- 3.3.18 An initial review of the OS map 1:25, 000 scale and relevant internet-based mapping including aerial photography⁵ has not located any waterbodies within approximately 250 m of the survey site. A detailed pond scoping exercise has not been undertaken to confirm this; and for example there may be ponds in nearby private gardens.
- 3.3.19 Given the above, the likelihood of this species being present in the survey site is considered to be negligible. As such no further survey and or specific mitigation/ enhancement

⁵ <https://www.google.com/maps/place/Penrycae/@53.0103822,-3.0867211,490m/data=!3m1!1e3!4m5!3m4!1s0x487ab7e0963badcb:0x14331cbeb18978a0!8m2!3d53.000067!4d-3.082745>

measures with regards reptiles are considered necessary. This species group will not be dealt with further in this report.

Reptiles

- 3.3.20 Cofnod provided records of Grass Snake (*Natrix natrix*), Slow-worm (*Anguis fragilis*), Adder (*Vipera berus*) and Common Lizard (*Zootoca vivipara*) from the 1 km search area. These are largely from 1 km (or more) away from the survey site; the closest record is a 2021 record of Slow-worm from Trefechan, Penycae, approximately 600 m to the south of the survey site.
- 3.3.21 The habitats present within the survey site are of negligible potential value for reptiles, it being a well-used garden being dominated by lawn (only a small area of which is infrequently managed) and hard-standing; there are no features such as compost piles which may provide potential higher quality features. Although the lawn at *Target Note 4b* appeared unmanaged in the recent past it appears frequently disturbed. Although immediately adjacent habitats, particularly to the west (*Target Note 7*)/ habitats associated with the stream corridor provide significantly greater potential value, the garden is largely surrounded by fences with concrete kickboard bases.
- 3.3.22 Given the above, the likelihood of this species group being present in the survey site is considered to be negligible. As such no further survey and or specific mitigation/ enhancement measures with regards reptiles are considered necessary. This species group will not be dealt with further in this report.

Birds

- 3.3.23 Cofnod provided a large number of bird records from within 1 km of the survey site (though none from within/ immediately adjacent to it) largely with four-figure grid references. Records of possible relevance to the survey site include Blue Tit (*Cyanistes caeruleus*), Dunnock (*Prunella modularis*), Great Tit (*Parus major*), House Sparrow (*Passer domesticus*), House Martin (*Delichon urbicum*) and Starling (*Sturnus vulgaris*).
- 3.3.24 The survey site provides nesting opportunities for species of bird associated with buildings/ structures only. A bird's nest was found within the loft space of the bungalow (*Target Note 2*) during the PRA. There were also bird droppings underneath the fascia board on the southern aspect of the building suggesting birds may nest in this location.



Bird's nest within the loft space.

Other Species

- 3.3.25 Cofnod provided a small number of butterfly/ other invertebrate records within 1 km of the survey site (though none from within it). None are of any particular relevance.
- 3.3.26 A small number of other mammal records were supplied by Cofnod, again none of which are particularly relevant to the survey site.

4 EVALUATION, ASSESSMENT AND RECOMMENDATIONS

4.1 Introduction

4.1.1 Brief details regarding the proposal are provided in *Section 1.4*. An assessment of ecological issues based on the information provided is detailed below and considers:

- potential ecological constraints relevant to the proposal;
- further survey requirements; and
- potential mitigation/ compensation measures along with opportunities for ecological enhancement.

These are dealt with in turn for protected sites, habitats and flora, and specific species groups in the section below. Potential impacts have been considered with reference to the information/ plans provided only. This assessment considers the survey site and immediately surrounding area.

4.1.2 Technical Advice Note 5 (Nature Conservation and Planning) (Welsh Assembly Government, 2009) seeks developments to achieve net biodiversity gain. The requirement to secure net benefit for biodiversity was reinforced in a letter issued by the Chief Planner (Welsh Government) to all planning departments in October 2019.

4.2 Evaluation, Assessment and Recommendations

Protected Sites

4.2.1 Taking into account the small-scale nature of the proposal, no (in)direct impacts are predicted on Ruabon/ Llantysilio Mountains and Minera SSSI/ Berwyn and South Clwyd Mountains SAC, which is located approximately 867 m to the west.

4.2.2 Yew Tree Dingle WS is located to the immediate west of Silverdale, within approximately 5-10 m of the western boundary fence at its closest point. No direct impacts will occur to this site as a result of the proposal. With regards potential in-direct impacts, taking into account the small-scale nature of the proposal, and assuming best practice (with regards protective fencing and dust/ diffuse pollution *etc.*, refer to '*Habitat*' section below), none are deemed likely to occur. This is also deemed to be the case with regards the ASNW which broadly corresponds to Yew Tree Dingle WS.

Habitat

4.2.3 Habitat resources within the survey site are restricted to the following features:

- amenity grassland (species-poor lawns);
- very small areas of species-poor ephemeral/ short-perennial vegetation;
- the existing domestic dwelling/ associated 2 no. sheds;
- hard-standing/ bare-ground; and
- boundary fences.

Due to the size, quality and geographical location of the habitat resources listed above they may be considered individually and as a unit to be of no more than site value⁶.

4.2.4 No further survey of the habitat resource is considered necessary at this time.

⁶ In accordance with CIEEM (2018).

- 4.2.5 The proposal is deemed likely to impact the whole of the survey site, with all features either being lost or temporarily disturbed. Taking into account the quality of the habitats to be impacted and the small areas concerned, this would not give rise to a significant impact. No particular mitigation measures are proposed (other than the avoidance/ best practice measures, and fauna species-specific led requirements, as detailed below).
- 4.2.6 To minimise impacts on adjacent ecological resources, largely the adjacent band of shrubs/ young trees/ tall-herbs and a dry ditch to the south (*Target Note 6*) and the steep bank supporting tall-herbs at *Target Note 7*, either the existing fences will be retained in situ for the duration of the preparatory/ demolition and construction works, or temporary protective fencing (e.g. heras) will be installed around the works footprint in advance. Either way fences will remain in-situ until the completion of the construction. No access/ storage of materials/ construction work, etc. will be allowed beyond them. Should heras fencing be installed it shall be in such a way as to prevent clods of soil/ other materials passing under the base. These measures are also designed to protect the adjacent Yew Tree Dingle WS and associated Nant y Crogfryn stream from indirect impacts.
- 4.2.7 In addition, general best practice measures will be implemented during preparatory works and the demolition/ construction phases to avoid any indirect impacts (e.g., dust, diffuse pollution, etc) on adjacent habitat (including Yew Tree Dingle WS and associated Nant y Crogfryn stream). The general advice contained in the Guidance for Pollution Prevention (GPP) leaflets produced by SEPA, EA and the Environment and Heritage Service (Northern Ireland) will be adhered to, particularly the following:
- PPG1: Understanding Your Environmental Responsibilities - Good Environmental Practices.
 - PPG6: Working at Construction and Demolition Sites.
- 4.2.8 Assuming the appropriate installation and maintenance of (the temporary protective) fencing along with the adoption of best practice measures, no significant impact is anticipated on valued habitat resources located within or close to the proposed works, including Yew Tree Dingle WS and associated Nant y Crogfryn stream.
- 4.2.9 The following enhancements will form part of the scheme:
- A native hedgerow will be planted along both the southern and western boundaries. Shrub species of ideally local, but minimum British provenance are to be used. The hedgerow will comprise a double staggered row of planting using bare-rooted whips. Appropriate advice on planting (including ground preparation) will be sought from the supplier. The woody species-mix utilised will be chosen by an appropriately qualified ecologist and reflect species found in existing hedgerows in the wider countryside at this locality. Further to establishment the hedgerow will be managed appropriately in the long-term.
 - Any new lawns will be established with a 'Flowering lawn' mix⁷ or turf⁸. Once established, this habitat can be mown regularly as a lawn. Ideally mowing should be to a minimum height of 0.04 m, with mowing suspended in spring to allow Cowslips to flower, and again from June for a period of 4-8 weeks to allow flowering of other species. All arisings will be removed after mowing.

⁷ for example: <http://wildseed.co.uk/mixtures/view/56/flowering-lawn-mixture>

⁸ for example: <https://www.wildflowerturf.co.uk/products/wildflower-turf/species-rich/>

- 4.2.10 Any tree or shrub planting within the garden should ideally involve utilising native species of ideally local, but minimum British provenance, and/ or species which have a recognised biodiversity value⁹.

Flora

- 4.2.11 No species of plant listed in categories (above Least Concern) in the most recent Vascular Plant Red Data List for Wales (Dines 2008) or in Williams (2014) were recorded from the proposed development/ survey site. No plants listed in *Schedule 9 to the Wildlife and Countryside Act 1981* (as amended) were recorded. As such no issues with regards flora have been determined and no further survey and or mitigation measures are deemed necessary.

Fauna

Badger

- 4.2.12 As a precautionary approach, as immediately adjacent habitats to the south, and particularly the west (sloping bank down to the Nant y Crogfryn stream) provide potential sett construction opportunities, a Badger pre-works sett check will be undertaken. This will be completed by a suitably qualified ecologist and focus on potential sett construction habitats within 30 m of the site boundary. This check should be completed in sufficient time in advance of any potentially licensable activities being initiated (including site clearance/ demolition works) to allow for licensing should it subsequently be required. It would be necessary to design and implement appropriate mitigation based on the results of this check.

Bats

PRA

- 4.2.13 The PRA concluded the following:
- A number of PRFs were identified within and around the bungalow during the PRA, with several access points into the loft space; however the evidence found suggests that these features are only used by a small number of crevice dwelling bats.
 - In accordance with the Collins (2016), considering the PRFs identified and the surrounding high potential quality (foraging/ commuting) habitat, the bungalow at *Target Note 2* is deemed to be of moderate potential suitability for roosting bats. The associated sheds at *Target Notes 1* and *1a* are of low potential.
 - As such at least two bat emergence survey visits must be carried out during May to August (inclusive), prior to any works to the bungalow.

Day Roost

- 4.2.14 The two emergence surveys were subsequently completed in May 2022. No bats were seen to emerge during the first emergence survey. During the second emergence survey, a single Soprano Pipistrelle was seen to emerge from under the fascia board by the flat roof section on the south-west elevation of the bungalow (*Target Note 2*). Soprano Pipistrelle droppings had previously been found under the fascia board and inside the loft space during the PRA. Closer inspection under the fascia board where the bat emerged show a small gap at the top of the wall where the bat is most likely gaining access under the flat roof.

⁹ for example: <https://www.rhs.org.uk/science/pdf/conservation-and-biodiversity/wildlife/plants-for-pollinators-garden-plants.pdf>

- 4.2.15 The bungalow is therefore used by at least one Soprano Pipistrelle as a day roost; the main loft space has been used by Soprano Pipistrelle in the past.
- 4.2.16 No bat use of the sheds at *Target Notes 1 and 1a* has been recorded. As such no further consideration of these structures with regards bats is required. However, as bat(s) are using the bungalow, and can move into any structure at any time, the sheds should be dismantled by hand and with caution. As a precautionary approach the sheds will be included in the NRW licence application as detailed below. Therefore, if a bat, or evidence of bats, is found during the dismantling works then works would not need to stop.

Impact Assessment

- 4.2.17 The proposal includes demolition of the bungalow at *Target Note 2* and subsequent construction of a replacement dwelling. Such works will destroy a confirmed bat roost and will also cause disturbance (to bats).
- 4.2.18 The Bat Mitigation Guidelines (Mitchell-Jones, 2004) state that the roost status for a small number of common bats (not a maternity site), is considered to be of low conservation significance. The proposed demolition of the bungalow will result in the temporary loss of a roost of a small number of bats. Compensatory roosting areas will be provided (refer below). The works will be carried out according to a licenced Method Statement to reduce the risk to individual bats that are using the site. It is therefore not perceived that the proposal will have a negative impact on the favourable conservation status Soprano Pipistrelle at a local or national level.

Mitigation, Compensation & Enhancement

- 4.2.19 As the bungalow at *Target Note 2* incorporates a known bat roost, no works to the roof or roofline (including barge boards/ fascias) can commence until a licence has been issued by NRW. A licence can only be applied for following the granting of planning permission and the discharge of any ecology related conditions. Once submitted the licence application takes up 40 working days to be processed.
- 4.2.20 To reduce the scale of impact, mitigation, compensation and enhancement measures will need to be in place, as well as specific working methods. These will be provided in detail within the licence Method Statement, but an indicative approach is provided below.

Mitigation – Destructive Works

- ❖ Once a licence has been obtained, any destructive works such as removal of fascia's/ soffits/ barge boards and/ or works to the roof can take place at any time of the year. However, it is preferable that they are undertaken between mid-September and 30th April, when it is least likely for bats to be present. Within this timeframe, it is preferable for the works to be undertaken in a) mid-September – October (so if any bats are found they will not be in hibernation but they will have finished breeding) or b) in April (prior to breeding).
- ❖ Prior to the start of works, a toolbox talk will be given to all personnel involved in the project and a log of this will be kept.
- ❖ Any works to the roof including the removal of fascia's and soffits and some areas of tiles will be supervised by a suitably qualified ecologist. At this time, a bat box will be available and if a bat is found during works, the box will be erected for the bat to be placed in. If work is carried out over winter and a hibernating bat is found, work must

stop until the bats have dispersed naturally if possible. If this is not possible then the bat must be placed in a box suitable for hibernation erected on the property.

- ❖ Dismantling of the sheds at *Target Notes 1/1a* will not require ecological supervision, but will be completed by hand/ with care and will be included within the licenced Method Statement.

Compensation & Enhancement – Roost Replacement

- ❖ The Bat Mitigation Guidelines (Mitchell-Jones, 2004) recommend that for roosts of low conservation significance, new roost facilities should be provided where possible. The guidelines further state that the new roost need not be exactly like-for-like, but should be suitable, and be based on species' requirements. TAN 5 (refer to *paragraph 4.1.2*) must also be taken account of.
- ❖ The proposed works will result in the loss of a Soprano Pipistrelle day roost; this will need to be compensated for within the proposed new dwelling. The site will be enhanced by the use of bat boxes and crevices behind the barge boards.
- ❖ 3 no. bat boxes (such as the Habibat bat box¹⁰ if integrated, or Beaumaris Maxi¹¹ if not integrated) will be included within the new dwelling. The bat boxes will be fitted to the west and south elevations (see below). If none of these are available, a suitable bat box design will be agreed with the licenced ecologist. Boxes are ideally placed at least 5 m high but, due to the immediate vegetation and the bats current roosting location, the locations below should be followed.
- ❖ Creation of 6 no. gaps behind the barge boards on the southern gable (see below) – the gaps will be 10mm x 200 mm allowing bats to use the area behind them.

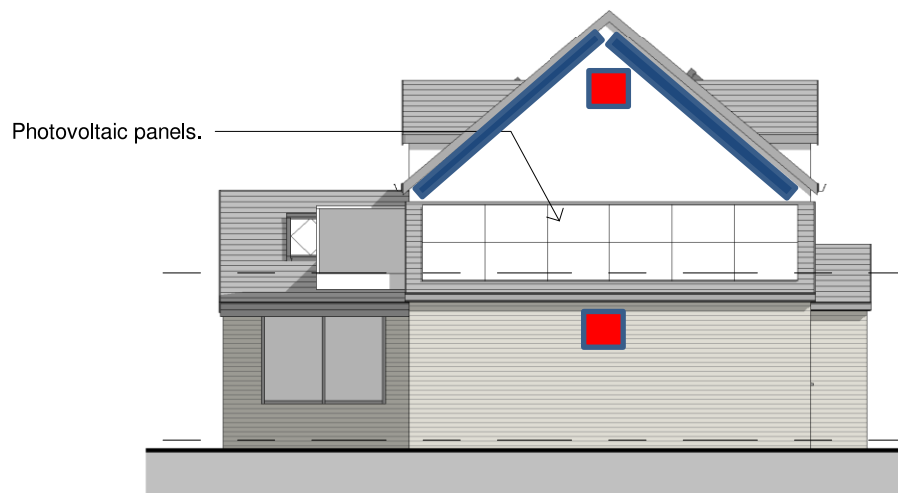


West Elevation

Proposed positioning of bat boxes (red square) on new dwelling.

¹⁰ <http://www.habibat.co.uk/category/bat-boxes>

¹¹ e.g., <https://www.nhbs.com/beaumaris-woodstone-bat-box>



South Elevation

Proposed positioning of bat boxes (red square) and gaps behind soffits (blue shading) on new dwelling.

Monitoring

- ❖ Due to the low number of bats, monitoring of the new bat boxes will not be necessary assuming the licence is followed, and the required mitigation is in place.
- ❖ Mitigation will be considered a success if all measures detailed in the licence are implemented.

Mitigation Contingencies

- ❖ If when carrying out the pre-works checks or during works, it becomes apparent that a higher number of bats, or different species of bats, are to be affected by the works than anticipated, works will be stopped until the working method and type/ scale of compensation measures can be reviewed and agreed with NRW. The licence would need to be amended accordingly. Further surveys may be required.

Persons responsible for implementing the works

- ❖ During the construction phase, a named representative of the construction company will be responsible for implementing the works as detailed in the bat licence. Post construction, the responsibility for the site will be handed back to the homeowners.

Auditing

- ❖ Work will be supervised where appropriate throughout the project by licenced ecologist (either the nominated ecologist or an accredited agent on the licence). All mitigation measures will be inspected by the ecologist to ensure compliance with measures detailed in the licence method statement.
- ❖ The licensed ecologist will be available throughout the project to provide advice on more detailed points as the project progresses.
- ❖ A record of visits will be kept and a toolbox talk will be given to all those who will be involved in the project.

- ❖ The works will be audited through the formal licencing process, to include the submission of the NRW licence report form (which is required to include evidence of the implementation of the detailed mitigation and compensation measures) within four weeks of the licence expiry. As monitoring is not deemed necessary for this scheme no licence monitoring report forms will be submitted. However, if required by the bat licence an NRW ecological compliance audit form will be completed.

Lighting

General Measures

- 4.2.21 Any lighting associated with the proposal, during and after the works, has the potential to impact bats utilising adjacent habitats. To reduce the potential impact of any light spillage on commuting/ foraging bats (especially associated with the immediately adjacent habitats to the south and west) the following measures will be incorporated into the lighting design.
- ❖ There must be no lights focused on the new bat boxes/ entrances provided for bats (or bird boxes) and any lighting should also avoid trees and linear features such as hedgerows, particularly along the south and western boundary.
 - ❖ Dark 'buffer zones', where there will no illumination, will be created during and after the works (see below), extending from the south-east corner of the new dwelling along to the south-west corner and north along the western boundary.
 - ❖ Works should start at least one hour after dawn and finish at least one hour before dusk during the summer months (May – August) to prevent light and noise levels disturbing any bats using the site.
 - ❖ Any external or security lighting should be limited to provide some dark periods during the night. Ideally the lighting should be motion activated, and not stay on longer than one minute, in order to provide maximum darkness when not needed as well as providing safe lighting conditions when required.



Location of dark 'buffer zones' on the southern and western elevations. Base image ©Google 2022

Detailed Measures

4.2.22 The following luminaire specifications are provided by Bat Conservation Trust and Institute of Lighting Professionals (2018) and must be incorporated into a lighting plan:

- ❖ All luminaires should lack UV elements when manufactured. Metal halide, fluorescent sources should not be used.
- ❖ LED luminaires should be used where possible due to their sharp cut-off, lower intensity, good colour rendition and dimming capability.
- ❖ A warm white spectrum (ideally <2700Kelvin) should be adopted to reduce blue light component.
- ❖ Luminaires should feature peak wavelengths higher than 550nm to avoid the component of light most disturbing to bats.
- ❖ Column heights should be carefully considered to minimise light spill.
- ❖ Only luminaires with an upward light ratio of 0% and with good optical control should be used.
- ❖ Luminaires should always be mounted on the horizontal, i.e. no upward tilt.
- ❖ Any external security lighting should be set on motion-sensors and short (1minute) timers.
- ❖ As a last resort, accessories such as baffles, hoods or louvres can be used to reduce light spill and direct it only to where it is needed.

Assuming that a sympathetic lighting arrangement is installed, no significant impact on (potential) adjacent foraging/ commuting resources is anticipated.

Otter

4.2.23 Taking into account the nature of the proposals and the distance from the adjacent stream no impacts on Otters are deemed likely. The requirement to retain a fenced boundary along the western side of Silverdale throughout the works will be also of use in ensuring the 'status-quo' with regards Otters potentially accessing the site.

Birds

4.2.24 The bungalow at *Target Note 2* is the only known and or potential nesting feature in the survey site which will be impacted by the proposals.

4.2.25 No further survey for birds is deemed necessary (other than a pre-work check should work be undertaken during the nesting season as detailed below).

4.2.26 The destruction of any bird nests that are in use is illegal. The simplest option to avoid issues arising from the presence of nesting birds is to schedule work that affects nesting habitat (e.g. building demolition) outside the nesting period (March to August inclusive). If habitat/ features that could be used by nesting birds is affected during this period it will be the subject of a pre-work check by a suitably qualified ecologist (no more than 48 hours beforehand) to ensure that no active nests will be affected. If active nests are found then work must be delayed until all chicks have fledged.

4.2.27 3 no. bird boxes are to be installed on the new building as follows:

- 2 no. 1SP Schwegler Sparrow Terraces (for example: <https://www.nhbs.com/1sp-schwegler-sparrow-terrace>). These can be installed externally, or fitted into the fabric of the building; and
- 1 no. 9A Schwegler House Martin Nest (for example <https://www.nhbs.com/9a-schwegler-house-martin-nest>).

They will be installed by or under the advice of an ecologist. The boxes will require annual maintenance/ cleaning out. These features are provided as mitigation for the loss of the existing resource as well as an enhancement.

Other Species

4.2.28 No significant impact on any other species of conservation interest is currently anticipated, and no particular mitigation measures are proposed. As a precautionary approach however a 'watching brief' for Hedgehogs will be maintained by site personnel during any external works. Any hedgehogs located should be removed to suitable dense habitat outside of the works footprint. Any such works should seek to avoid the hibernation period (October/ November to March/ April). However, if it is necessary to undertake the work at this time periods of cold weather should be avoided. Should a hibernating Hedgehog be found it should be covered back up and left where it is until the end of the hibernation period. Any open trenches should be inspected for Hedgehogs on a daily basis.

5 SUMMARY CONCLUSIONS

5.1.1 This report concludes the following with regards existing (on- and off-site) ecological resources:

- No statutory protected sites would be (in)directly impacted by the proposal.
- Yew Tree Dingle WS is located appropriately 5-10 m to the west of Silverdale. Considering the small-scale nature of the proposal, and assuming best practice (with regards protective fencing and dust/ diffuse pollution etc.) no in-direct impacts on this non-story site (or other adjacent habitats) are deemed likely to occur.
- No ASNW or RAWs would be (in)directly impacted.
- Direct impacts to habitats associated with the proposal are negligible – largely limited to amenity grassland, the existing dwelling and associated areas of hard-standing. This would not give rise to a significant impact.
- No issues with regards flora have been determined.
- Opportunities for Badger sett excavation are absent from the survey site itself, but are afforded by immediately adjacent habitats to the south, and particularly the west.
- A number of PRFs were identified within and around the bungalow at *Target Note 2* during the PRA, with several access points into the loft space. Evidence suggests that these features are only used by a small number of crevice dwelling bats. Bat droppings were found both internally and externally – these were sent away for DNA analysis and confirmed as being Soprano Pipistrelle.
- Considering this and the surrounding high potential quality (foraging/ commuting) habitat, the bungalow is deemed to be of moderate potential suitability for roosting bats. The associated sheds at *Target Notes 1* and *1a* are of low potential.
- One Soprano Pipistrelle emerged from the bungalow during the second survey. As such it has been concluded that the flat roofed section of the bungalow is used by at least one Soprano Pipistrelle as a day roost, and the main roof space has been used by a soprano pipistrelle in the past. No bat use of the sheds has been recorded.
- No impacts on Otter are deemed likely.
- Potential impacts on Great Crested Newts and reptiles have been discounted.
- A bird's nest was found within the loft space of the bungalow (*Target Note 2*) during the PRA. There were also bird droppings underneath the fascia board. No other nesting opportunities are provided by the site.

5.1.2 This report recommends the following avoidance/ mitigation/ enhancement measures:

- Existing boundary fences will be retained in situ or protective fencing will be installed to protect adjacent habitats/ Yew Tree Dingle WS/ Nant y Crogfryn stream during preparatory (including demolition)/ construction works. This measure will also ensure the 'status-quo' with regards Otters potentially accessing the site.
- General best practice measures will be implemented during preparatory (including demolition)/ / construction works to avoid any indirect impacts on adjacent habitat/ Yew Tree Dingle WS/ Nant y Crogfryn stream.
- As enhancements a native hedgerow will be planted along both the southern and western boundaries, and new lawns will be established with a 'Flowering lawn' mix or turf. Advice/ guidance from an ecologist will be sought.
- A precautionary pre-works Badger sett check will be undertaken, focusing on potential sett construction habitats within 30 m of the site boundary.

- A known bat roost will be lost due to the demolition of the bungalow. As a bat roost has been identified, no works to the roofline or roof (including fascias, bargeboards, soffits), can be undertaken until a licence has been obtained from NRW and works to these areas will be supervised by the licenced ecologist. As a precautionary approach the sheds will be included for within the licenced works, although the demolition of these structures can proceed without direct ecological supervision (albeit by dismantling by hand and with caution).
- 3 no. bat boxes will be erected in/ on the replacement dwelling to provide compensation and enhance the site for bats.
- Any external (temporary or permanent) lighting should be designed to minimise impacts to bats and will follow published guidance.
- A precautionary Hedgehog watching brief will be undertaken.
- Demolition of the building at *Targe Note 2*, which may potentially impact nesting birds, should be undertaken outside the bird nesting season. Should this not be possible then suitable features would need to be checked by a qualified ecologist prior to the commencement of work.
- 3 no. bird-boxes will be installed on the new building as specified. They will be installed by or under the advice of an ecologist and will be managed appropriately in the long-term.

5 TARGET NOTES

Target Note 1. A wooden shed of apparently recent construction. There is another shed at *Target Note 1a*. Not assessed in detail during Extended Phase 1 Habitat Survey; refer to Preliminary Roost Assessment (PRA).

Target Note 2. A domestic bungalow dwelling. Not assessed in detail during Extended Phase 1 Habitat Survey; refer to PRA.

Target Note 3. Ephemeral plants scattered throughout an area of bare ground and hard-standing which is characterised by garden debris and equipment. The ephemeral plants include for example, *Epilobium montanum* (Broad-leaved Willowherb), *Cirsium vulgare* (Spear Thistle), *Ranunculus repens* (Creeping Buttercup), *Taraxacum* sect. *Ruderalia* (Common Dandelion), *Urtica dioica* (Common Nettle) and various grasses.

Target Note 4. There are three small areas of garden lawn (amenity grassland) within the survey site. It is species-poor throughout. At *Target Note 4* this resource appears to be infrequently managed to 0.2 to 0.3 m high; it appears to be frequently disturbed. The sward is dominated by grasses including *Lolium perenne* (Perennial Rye-grass), *Holcus lanatus* (Yorkshire-fog) and *Festuca rubra* (red Fescue) with lesser amounts of *Dactylis glomerata* (Cock's-foot). Common grassland forbs scattered throughout at low levels of abundance include Creeping Buttercup and Common Dandelion, with occasional tall-herbs such as Common Nettle and *Senecio jacobaea* (Common Ragwort). At *Target Note 4a* the resource is similar although the grass resource appears to be dominated by Perennial Rye-grass, and with *Trifolium repens* (White Clover) present. There is various garden play equipment here (slide, trampoline).

The grass at *Target Note 4b* appears to be largely unmanaged and comprises long vegetation to 1 m high. There is various garden debris scattered here. The sward appears to be dominated by Yorkshire-fog with other grasses including *Agrostis capillaris* (Common Bent), *Elytrigia repens* (Common Couch), *Poa pratensis* (Smooth Meadow-grass) and *Anisantha sterilis* (Barren Brome). It is locally tussocky but remains species-poor; forbs and tall-herbs include Creeping Buttercup, Common Nettle, *Rumex obtusifolius* (Broad-leaved Dock) and *Anthriscus sylvestris* (Cow Parsley). It has been mapped as lawn as it is deemed likely to have resulted from lack of mowing of such a resource.

Target Note 5. A hard-standing area with various garden debris present.

Target Note 6. [Outside the survey site]. A narrow band of shrubs/ young trees (including *Fraxinus excelsior* (Ash), *Corylus avellana* (Hazel), *Rosa canina* agg. (Dog-rose) and *Ilex aquifolium* (Holly))/ tall-herbs and a dry ditch immediately adjacent to the survey site.

Target Note 7. [Outside the survey site]. A steep bank supporting tall-herbs (Common Nettle dominated?) and (near the survey site boundary) occasional shrubs/ young trees (Ash and *Sambucus nigra* (Elder)). There is a small stream (Nant y Crogfryn) at the base of the slope, approximately 20 m from the survey site boundary.

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8 DATA

Table 3 – Vascular plant species recorded within the survey site

Plant Species	
	<i>Galium aparine</i> (Cleavers)
<i>Acer pseudoplatanus</i> (Sycamore)	<i>Hedera helix</i> agg. (Ivy)
<i>Fraxinus excelsior</i> (Ash)	<i>Holcus lanatus</i> (Yorkshire-fog)
	<i>Hypochaeris radicata</i> (Cat's-ear)
<i>Agrostis capillaris</i> (Common Bent)	<i>Lapsana communis</i> (Nipplewort)
<i>Anagallis arvensis</i> (Scarlet Pimpernel)	<i>Lolium perenne</i> (Perennial Rye-grass)
<i>Anisantha sterilis</i> (Barren Brome)	<i>Poa annua</i> (Annual Meadow-grass)
<i>Anthriscus sylvestris</i> (Cow Parsley)	<i>Poa pratensis</i> (Smooth Meadow-grass)
<i>Bellis perennis</i> (Daisy)	<i>Plantago major</i> (Greater Plantain)
<i>Cardamine</i> cf. <i>hirsuta</i> (Hairy Bittercress)	<i>Ranunculus repens</i> (Creeping Buttercup)
<i>Cerastium fontanum</i> (Common Mouse-ear)	<i>Rubus fruticosus</i> agg. (Bramble)
<i>Chamerion angustifolium</i> (Rosebay Willowherb)	<i>Rumex obtusifolius</i> (Broad-leaved Dock)
<i>Cirsium vulgare</i> (Spear Thistle)	<i>Senecio jacobaea</i> (Common Ragwort)
<i>Dactylis glomerata</i> (Cock's-foot)	<i>Senecio vulgaris</i> (Groundsel)
<i>Digitalis purpurea</i> (Fox-glove)	<i>Sonchus oleraceus</i> (Smooth Sow-thistle)
<i>Elytrigia repens</i> (Common Couch)	<i>Taraxacum</i> sect. <i>Ruderalia</i> (Common Dandelion)
<i>Epilobium montanum</i> (Broad-leaved Willowherb)	<i>Trifolium repens</i> (White Clover)
<i>Festuca rubra</i> (Red Fescue)	<i>Urtica dioica</i> (Common Nettle)

9 APPENDIX 1 - SPECIES-SPECIFIC LEGISLATION

9.1 Introduction

- 9.1.1 The species-specific legislation below is presented here due either to the actual or suspected/ possible presence of each species on the site or within the zone of influence and is therefore considered to be relevant for this study.
- 9.1.2 This sub-section provides a brief summary of key relevant species legislation. It should not be considered a comprehensive review and is not meant to be so. It is provided here for information only and is not intended to replace specialised legal advice. It does not replace the text of the legislation, but summarises the salient points.

9.2 Bats

- 9.2.1 All species of British bat are listed on *Schedule 5* of the *Wildlife and Countryside Act 1981* (as amended), and receive full protection under *Section 9*. They are also listed as European Protected Species on *Schedule 2* of *The Conservation of Habitats and Species Regulations 2017* which gives them full protection under *Regulation 42(1)*. Protection was extended by the *Countryside and Rights of Way Act 2000* (the *CRoW Act 2000*).
- 9.2.2 Under the above legislation it is an offence to intentionally or recklessly:
- kill, injure or take an individual of such a species;
 - possess any part of such species either alive or dead;
 - damage, destroy or obstruct access to any place or structure used by such species for shelter, rest, protection or breeding;
 - disturb such a species whilst using any place of shelter or protection; or
 - sell or attempt to sell any such species.
- 9.2.3 Several species of bat are included on *Section 7* of the *Environment Act 2016*.
- 9.2.4 All species of British bat are also protected under *Schedule 6* of the *Wildlife and Countryside Act 1981* (as amended). This protection relates specifically to trapping and direct pursuit of the species.

9.3 Birds

- 9.3.1 All species of bird are protected under *Section 1* of the *Wildlife and Countryside Act 1981* (as amended). The protection was extended by the *CRoW Act 2000*.
- 9.3.2 The legislation makes it an offence to intentionally or recklessly:
- kill, injure or take any wild bird;
 - take, damage or destroy the nest of any wild bird while that nest is in use or being built; or
 - take or destroy an egg of any wild bird.
- 9.3.3 Certain species of bird are listed on *Schedule 1* of the *Wildlife and Countryside Act 1981* (as amended) and receive protection under *Sections 1(4)* and *1(5)* of the Act. The legislation confers special penalties where the above mentioned offences are committed for any such bird and also make it an offence to intentionally or recklessly:

- disturb any such bird, whilst building its nest or it is in or near a nest containing dependant young; or
- disturb the dependant young of such a bird.

9.3.4 Section 7 of the *Environment Act 2016* includes several birds.

Cofnod Environmental Information Search (PUBLIC VERSION)

Our Reference	CO/E09491
Your Reference	C470 Silverdale
Requested By	Max Ellson, Marches Ecology LLP
Data Users	Max Ellson, Marches Ecology LLP; Tom Knight, Marches Ecology LLP; Rhian Hughes, Enfys Ecology; Saskia Webster, Enfys Ecology; Tim Yardley, Enfys Ecology ; Lucy Boyett, Enfys Ecology; Keymar Wake, Enfys Ecology; Geraint Edwards, Arkify; Helen & Gareth Garrett
Search Date	18/11/2021 15:45
Expiry Date	18/05/2022 (may be extended on request)
Search Type	Chargeable

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Notes

- Records with 1km, 2km, 5km, 10km or 100km grid references (where present) are highlighted with, for example, (1km) next to the distance to indicate that the distance should not be considered to be exact given the vague nature of the grid reference.
- Records shown in **bold** typeface are sensitive species records, and some details have been restricted in this public version of the report.

Verification Levels

- **UA**: Unassessed
- **PC**: Probably Correct
- **KC**: Known Correct
- **NA**: Not Required

Species Categories

- **All Other Species**: Any species not included in other categories
- **Category 1 Species**: Species with European and/or UK Legal Protection, Section 7 Species or UK BAP Priority Species
- **Category 2 Species**: Global Red List, British Red Data Book, Nationally Rare & Scarce, Welsh Red and Amber Birds & Welsh Vascular Plant Red Data List, not identified in Category 1
- **Category 3 Species**: LBAP Species not identified under Categories 1 & 2, Locally Important species as specified by local experts

Abbreviations

BAP - UK Biodiversity Action Plan Priority Species, **BDir1** - EU Birds Directive Annex 1 - Birds which are the subject of special conservation measures, **BDir2.1** - EU Birds Directive Annex 2.1 - Birds which may potentially be hunted, **BDir2.2** - EU Birds Directive Annex 2.2 - Birds which may potentially be hunted within certain member states, **Bern2** - Bern Convention on the Conservation of European Wildlife and Natural Habitats, Appendix 2 - Strictly protected fauna species, **Bern3** - Bern Convention on the Conservation of European Wildlife and Natural Habitats, Appendix 3 - Protected fauna species, **Bonn2** - Bonn Convention on the Conservation of Migratory Species of Wild Animals, Appendix 2 - Migratory Species to be the subject of agreements, **CHS2** - The Conservation of Habitats and Species Regulations 2010, Schedule 2 - European Protected Species of Animals, **CHS4** - The Conservation of Habitats and Species Regulations 2010, Schedule 4 - Animals which may not be captured or killed in certain ways, **CITES-A** - Convention on International Trade in Endangered Species, Annex A - Species threatened with extinction, **CITES-C** - Convention on International Trade in Endangered Species, Annex C - Species subject to regulation, **GBNNSIP** - Great Britain Non-native Species Inventory Portal Checklist of Non-native Species, **HDir2** - Habitats Directive, Annex II - Species requiring designation of Special Areas of Conservation, **HDir4** - Habitats Directive, Annex IV - Species in need of strict protection, **HDir5** - Habitats Directive, Annex V - Species where population management is decided by individual countries, **INNS** - Invasive Non-native Species, **LBAP-A** - Anglesey Local Biodiversity Action Plan, **LBAP-C** - Conwy Local Biodiversity Action Plan, **LBAP-D** - Denbighshire Local Biodiversity Action Plan, **LBAP-F** - Flintshire Local Biodiversity Action

Plan, **LBAP-G** - Gwynedd Local Biodiversity Action Plan, **LBAP-S** - Snowdonia National Park Authority Local Biodiversity Action Plan, **LBAP-T** - North and Mid Wales Trunk Road Agent Biodiversity Action Plan, **LBAP-W** - Wrexham Local Biodiversity Action Plan, **PBA** - Protection of Badgers Act 1992, **RD1-CR** - Red Data Book listing (based on IUCN guidelines) - Critically Endangered, **RD1-DD** - Red Data Book listing (based on IUCN guidelines) - Data Deficient, **RD1-EN** - Red Data Book listing (based on IUCN guidelines) - Endangered, **RD1-NT** - Red Data Book listing (based on IUCN guidelines) - Near Threatened, **RD1-PX** - Red Data Book listing (based on IUCN guidelines) - Possibly Extinct, **RD1-VU** - Red Data Book listing (based on IUCN guidelines) - Vulnerable, **RD2-NR** - Red Data Book Listing (not based on IUCN guidelines) - Nationally Rare, **RD2-NS** - Red Data Book Listing (not based on IUCN guidelines) - Nationally Scarce, **S7** - Environment (Wales) Act 2016 (Section 7), **UKBA** - RSPB/BTO Birds of Conservation Concern - Amber list (not based on IUCN criteria), **UKBR** - RSPB/BTO Birds of Conservation Concern - Red list (not based on IUCN criteria), **WBA** - RSPB/BTO Birds of Conservation Concern in Wales - Amber list (not based on IUCN criteria), **WBR** - RSPB/BTO Birds of Conservation Concern in Wales - Red list (not based on IUCN criteria), **WCA1.1** - Wildlife & Countryside Act 1981 Schedule 1.1 - Birds which are protected at all times, **WCA1.2** - Wildlife & Countryside Act 1981 Schedule 1.2 - Birds which are protected during the close season, **WCA5** - Wildlife & Countryside Act 1981 Schedule 5 - Animals which are protected, **WCA8** - Wildlife & Countryside Act 1981 Schedule 8 - Plants which are protected, **WCA9** - Wildlife & Countryside Act 1981 Schedule 9 - Animals and plants which may not be released/planted or allowed to escape/grow in the wild

Data Description

Distance	Indicates the distance, in metres, between the grid reference of the record (using the central point of the grid square) and the search location. For any Sensitive Species Records, this should not be released into the Public Domain.
Species Name	Name of the taxon (usually identified to species level) using the binomial system.
Date	Date on which the record was made. In some cases this might be a date range, or a vague date such as 'Summer 2010'.
Recorder(s)	One or more people who made the original observation and recorded it in some way. It may have subsequently been included in a data collation by another person or it may have been submitted to the LERC directly.
Abundance	Number of individuals recorded. Where not specified it is assumed that at least one was present.
Record Type	A description of the type of record.
Site Name	The site name (if one has been supplied). For any Sensitive Species Records, this cannot be released into the Public Domain.
Notes	Any additional notes about the sighting. For any Sensitive Species Records, this cannot be released into the Public Domain.
Dataset ID	ID of this dataset. See 'Important Issues' for more details.
Lists	Any local, national or international conservation statuses or legal protection which apply to this species and whether it is included in any Local Biodiversity Action Plans. See 'Abbreviations' for more details.
V	An indicator showing the level of confidence held in the record's correct identification.

Dataset Information

The records in these results are drawn from the following datasets. Use the Dataset ID next to each record to find its dataset.

Dataset ID	Title
D0035/002/01	Vice-County dataset - Reptile records from Denbighshire and Flintshire Vice-counties (50 and 51)
D0036/001/04	Raptor, owl, raven and chough breeding records from North East Wales
D0059/001/03	North Wales badger records held by Clwyd Badger Group (including some historic data) - CBG Historic sett data
D0062/008/01	Vice-County dataset - Bird records from Flintshire and Denbighshire Vice-counties (50 and 51) - All records up to 2018
D0062/010/01	Vice-County dataset - Bird records from Flintshire and Denbighshire Vice-counties (50 and 51) - 2019 records
D0108/001/03	Brown Hare records collated by North Wales Wildlife Trust - Brown Hare records
D0132/001/02	Green Shoots North Wales records
D0217/001/04	Welsh Invertebrate Database (WID) - Records from within the Cofnod boundary
D0967/002/01	Miscellaneous species records by John Lawton Roberts (and a small number of third party records submitted to him). - 2007 records
D0967/003/01	Miscellaneous species records by John Lawton Roberts (and a small number of third party records submitted to him). - 2008 records
D0967/004/01	Miscellaneous species records by John Lawton Roberts (and a small number of third party records submitted to him). - 2011 records
D0967/005/01	Miscellaneous species records by John Lawton Roberts (and a small number of third party records submitted to him). - 2010 records
D0967/008/01	Miscellaneous species records by John Lawton Roberts (and a small number of third party records submitted to him). - Mammal and Herptile records, 2014
D0967/009/01	Miscellaneous species records by John Lawton Roberts (and a small number of third party records submitted to him). - Mammal & Herptile records 2015
D0967/012/01	Miscellaneous species records by John Lawton Roberts (and a small number of third party records submitted to him). - Mammal and herptile records 2016
D0967/014/01	Miscellaneous species records by John Lawton Roberts (and a small number of third party records submitted to him). - Mammal and Herptile records 2017
D0967/017/01	Miscellaneous species records by John Lawton Roberts (and a small number of third party records submitted to him). - Mammal and Herptile records 2018
D0967/019/01	Miscellaneous species records by John Lawton Roberts (and a small number of third party records submitted to him). - 2019 records
D0967/020/01	Miscellaneous species records by John Lawton Roberts (and a small number of third party records submitted to him). - 2020 records
D0969/001/05	Miscellaneous species records submitted to rECOrd
D1075/001/06	Bryophyte data for Great Britain from the British Bryological Society held by BRC: Atlas 2014 - North Wales data
D1081/001/03	Caddisfly (Trichoptera) records from Britain' held by UK Trichoptera (Caddisfly) Recording Scheme
D1117/001/01	ad hoc Cofnod Online Recording System records

D1169/004/02	Vice-County dataset - Vascular plant records from Denbighshire Vice-county (50). - Complete dataset
D1285/001/03	Vice-County dataset - Moth records from Denbighshire and Flintshire Vice-counties (50 and 51)
D1295/001/04	Dragonfly records from the British Dragonfly Society Recording Scheme - Records from the Cofnod area
D1297/020/01	BirdTrack records - 2015 records from within the Cofnod boundary
D1297/021/01	BirdTrack records - 2016 records from within the Cofnod boundary
D1297/025/01	BirdTrack records - 2004-2018 data from Vice-Counties 50 & 51 (Denbighshire & Flintshire)
D1297/026/01	BirdTrack records - 2019 data from Vice-County 50 (Denbighshire)
D1373/001/05	Historic Vice-County dataset - Butterfly records from Denbighshire and Flintshire Vice-counties (50 and 51)
D1480/001/01	Wales Online Amphibian & Reptile Atlas Ad-hoc Records
D1486/001/01	Natural Resources Wales North Wales Bat Roosts
D1650/001/02	Miscellaneous invertebrate species records by Bryan Formstone and others - Aculeata records from Vice-counties 50 and 51
D1814/001/01	Records of Curlew and Lapwing collected as part of the Curlew Cymru Project
D1847/001/01	Hogwatch and Rural Landowner surveys
D1852/001/01	RSPB Big Garden Birdwatch winter sightings in the UK in 2008 - 2008 records
D1852/002/01	RSPB Big Garden Birdwatch winter sightings in the UK in 2008 - 2009 records
D1949/001/01	Records submitted by RSPB to Vice-County Recorder for Birds for Flintshire and Denbighshire Vice-counties (50 and 51) - Records from 2004 - 2017

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Search Location	Grid Reference
Silverdale, Tainant	SJ2720546388

Category 1 Species										
Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Acanthis cabaret</i> (Lesser Redpoll)	SJ2745	12 records, between 27/01/2006 and 15/04/2019	JA Jackson; John Lawton Roberts; J.A.Jackson	1; 3; 5; 7; 11; 12; 14; 25; cc 10	Reported to recorder	Penycae	First on feeders for some months. Survey: Observer data; on feeders. Survey: Observer data; Survey: Observer data; Now 5 on feeders. Survey: Observer data; Maximum on feeders. Survey: Observer data; In Birches by feeders. Survey: Observer data; After snow, on feeders in garden. Survey: Observer d...	D0062/008/01 , D0062/010/01	BAP, LBAP-C, LBAP-D, S7, UKBR, WBR	NA
<i>Acanthis cabaret</i> (Lesser Redpoll)	SJ2645	2 records, between 01/04/2012 and 17/04/2012	Neil Hughes	1; 2	Reported to recorder	Penycae, Trefechan	Survey: Observer data	D0062/008/01	BAP, LBAP-C, LBAP-D, S7, UKBR, WBR	NA
<i>Acanthis cabaret</i> (Lesser Redpoll)	SJ2647	4 records, between 15/04/2007 and 24/07/2018	Jason Newton; John Lawton Roberts; Neil Sumner; Trevor B Taylor	2; 1	Reported to recorder	Penycae, Cae Llwyd Reservoir	Survey: Observer data; BirdTrack. Activity: F	D0062/008/01 , D1297/025/01	BAP, LBAP-C, LBAP-D, S7, UKBR, WBR	NA, PC
<i>Acanthis cabaret</i> (Lesser Redpoll)	SJ2845	3 records, between 28/04/2008 and 09/04/2011	Teresa Wright; Peter Lawton	2; 1		Penycae, E	Birdtrack; Birdtrack;; BirdTrack	D1297/025/01	BAP, LBAP-C, LBAP-D, S7, UKBR, WBR	PC
<i>Aix galericulata</i> (Mandarin Duck / Hwyaden Gribog)	SJ2645	17/05/2016	JA Jackson	2	Reported to recorder	Penycae, Trefechan	Prospecting for nest site. Survey: Observer data	D0062/008/01	Bonn2, GBNSIP, INNS, WCA9	NA
<i>Alauda arvensis</i> (Skylark / Ehedydd)	SJ2745	2 records, between 15/10/2010 and 16/10/2011	JA Jackson	15; 75	Reported to recorder	Penycae	Moving W. Survey: Observer data; Moving S in parties of 20-30. Survey: Observer data	D0062/008/01	BAP, BDir2.2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, RD1-VU, S7, UKBR, WBA	NA
<i>Alauda arvensis</i> (Skylark / Ehedydd)	SJ2647	25/06/2012	Neil Sumner			Penycae, Cae Llwyd Reservoir	BirdTrack. Activity: S	D1297/025/01	BAP, BDir2.2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, RD1-VU, S7, UKBR, WBA	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Alauda arvensis</i> (Skylark / Ehedydd)	SJ2646	21/05/2014	John Rushton	2		Penycae, NW	BirdTrack	D1297/025/01	BAP, BDir2.2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, RD1-VU, S7, UKBR, WBA	PC
<i>Alcedo atthis</i> (Kingfisher / Glas y Dorlan)	SJ2747	2 records, between 08/11/2006 and 03/11/2016	Mr P E Miller; JA Jackson	1; 2	Reported to recorder	Mawr Reservoir, Bronwyl fa	ca 1 week, incl/ this date. Survey: Observer data	D1297/021/01 , D0062/008/01	BDir1, Bern2, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-T, UKBA, WBA, WCA1.1	PC, NA
<i>Alcedo atthis</i> (Kingfisher / Glas y Dorlan)	SJ2745	9 records, between 10/07/2005 and 02/09/2017	JA Jackson	1; 2	Reported to recorder	Penycae	Survey: Observer data	D0062/008/01	BDir1, Bern2, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-T, UKBA, WBA, WCA1.1	NA
<i>Alcedo atthis</i> (Kingfisher / Glas y Dorlan)	SJ2746	24/09/2019	J.A. Jackson	3		Penycae, Tainant	3 seen regularly	D0062/010/01	BDir1, Bern2, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-T, UKBA, WBA, WCA1.1	NA
<i>Anguis fragilis</i> (Slow-worm / Neidr Ddefaid)	SJ2745	2 records, between 21/05/2014 and 08/07/2014	J. A. Jackson	1		Penycae Reservoir	Seen being killed by jackdaw; Seen being taken by magpie	D0967/008/01	BAP, Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, LBAP-T, S7, WCA5	PC
<i>Anguis fragilis</i> (Slow-worm / Neidr Ddefaid)	SJ274454 (Supplied by Original Recorder (Checked))	2 records, between 25/03/2018 and 22/04/2018	J.A. Jackson	1		Pen-y-Cae reservoir	Jackdaw pecking at and pulling tail of one in stony area of garden, Pen-y-cae Reservoir – SJ274.454, as in 2017; 1 attacked by Jackdaw	D0967/017/01	BAP, Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, LBAP-T, S7, WCA5	PC
<i>Anguis fragilis</i> (Slow-worm / Neidr Ddefaid)	SJ27174577 (Selected from Interactive Map)	30/05/2021	Kim Norman	1 Adult		Penycae	1st record at this location	D1480/001/01	BAP, Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, LBAP-T, S7, WCA5	KC
<i>Asplenium trichomanes</i> (Maidenhair Spleenwort / Duegredynen Gwallt y Forwyn)	SJ2745	04/06/2015	Stead.M.O.			Penycae		D1169/004/02	RD1-NT, RD2- NR, S7	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Branta canadensis</i> (Canada Goose / Gwydd Canada)	SJ2645	29 records, between 02/07/2005 and 30/05/2019	Mr P Lawton; JA Jackson; John Rushton; John Lawton Roberts; Neil Hughes; Steven Davies; Anne Brenchley; Trevor B Taylor; J.A.Jackson	11; 2; 3; 4; 12; 13; 25; 400; 1 Adult; 1 Female; 1 Male; 11 Adult; 3 Juvenile; 37 Juvenile; 50+; 65+ Juvenile; 120; 7; 20; ca 200	Reported to recorder	Penycae, Newtown Forest	First of spring. Survey: Observer data; Survey: Observer data; First sighting of goslings from moor. Survey: Observer data; Other 11 ads not involved. Survey: Observer data; 3 downy yng with 1 ad pr. 34 with other!. Survey: Observer data; On reservoir, prior to breeding on moor. Survey: Observe...	D1297/020/01 , D0062/008/01 , D1297/025/01 , D0062/010/01	BDir2.1, Bonn2, GBNNSIP, INNS, WCA9	PC, NA
<i>Branta canadensis</i> (Canada Goose / Gwydd Canada)	SJ2747	11 records, between 22/09/2008 and 06/04/2019	Mr P E Miller; JA Jackson; Steven Davies; Anne Brenchley; Neil Hughes; Mr Steven Davies	40; 250; 12; 5; 18; 52+; 17; 22; 80+; c10	Reported to recorder	Mawr Reservoir, Bronwylfa	Survey: Observer data; BirdTrack; Bird Track	D1297/021/01 , D0062/008/01 , D1297/025/01 , D1297/026/01	BDir2.1, Bonn2, GBNNSIP, INNS, WCA9	PC, NA
<i>Branta canadensis</i> (Canada Goose / Gwydd Canada)	SJ2647	16 records, between 09/03/2004 and 06/04/2019	John Lawton Roberts; Jason Newton; Steven Davies; Trevor B Taylor; Mr Steven Davies	2; 27; 59; 61; 10+ Juvenile; 65+; 71 Adult; 13; 58; 110+; 65; 4; 11; 100+; 7; c210	Reported to recorder	Penycae, Cae Llwyd Reservoir	Survey: Observer data; Activity: FL. Survey: Observer data; Activity: FF. Survey: Observer data; On field by reservoir. Survey: Observer data; BirdTrack; Bird Track	D0062/008/01 , D1297/025/01 , D1297/026/01	BDir2.1, Bonn2, GBNNSIP, INNS, WCA9	NA, PC
<i>Branta canadensis</i> (Canada Goose / Gwydd Canada)	SJ2745	9 records, between 23/02/2004 and 15/04/2015	John Rushton; John Lawton Roberts; JA Jackson; John D Gambles	5; 9; 20; 87; 7 Female; 7 Male; 6; 2	Reported to recorder	Penycae	Survey: Observer data; Flying west. Survey: Observer data; BirdTrack; Bird Track	D0062/008/01 , D1297/025/01	BDir2.1, Bonn2, GBNNSIP, INNS, WCA9	NA, PC
<i>Branta canadensis</i> (Canada Goose / Gwydd Canada)	SJ2646	3 records, between 29/04/2014 and 08/04/2015	John Rushton	2; 3		Penycae, NW	BirdTrack. Activity: ON; Bird Track	D1297/025/01	BDir2.1, Bonn2, GBNNSIP, INNS, WCA9	PC
<i>Ceramica pisi</i> (Broom Moth / Gwyfyn Banadl)	SJ263467	21/07/2006	M.D.Rogers	2 Larval		Top y Tainant	Habitat: Grassland; marshy, upland. Method: Daytime observation	D1285/001/03	BAP, LBAP-G, S7	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Cerastium fontanum</i> (Common Mouse-ear / Clust-y-Llygoden Gulddail)	SJ2645	06/06/2015	Stead.M.O.			Penycae		D1169/004/02	BAP, RD1-VU, RD2-NR	NA
<i>Cerastium fontanum</i> (Common Mouse-ear / Clust-y-Llygoden Gulddail)	SJ2646	28/09/2014	Stead, M.O.			Tainant		D1169/004/02	BAP, RD1-VU, RD2-NR	NA
<i>Cerastium fontanum</i> (Common Mouse-ear / Clust-y-Llygoden Gulddail)	SJ2647	2 records, between 17/09/2011 and 28/09/2014	Shanklin, J.; Stead, M.O.			Tainant		D1169/004/02	BAP, RD1-VU, RD2-NR	NA
<i>Cerastium fontanum</i> (Common Mouse-ear / Clust-y-Llygoden Gulddail)	SJ2745	2 records, between 17/09/2011 and 04/06/2015	Stead.M.O.; Shanklin, J.			Penycae		D1169/004/02	BAP, RD1-VU, RD2-NR	NA
<i>Cerastium fontanum</i> (Common Mouse-ear / Clust-y-Llygoden Gulddail)	SJ2845	02/09/2014	Stead, M.O.			Stryt-issa		D1169/004/02	BAP, RD1-VU, RD2-NR	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Chiroptera</i> (Bat / Ystlum)	SJ2845	24/07/1998	Anon			-Withheld-	-Withheld-	D1486/001/01	Bern2, Bonn2, CHS2, HDir4, LBAP-T, WCA5	NA
<i>Chiroptera</i> (Bat / Ystlum)	SJ2747 (Estimated (Centroid of Site))	~ 2005	BASC Recorder (12086738-1)			-Withheld-	-Withheld-	D0132/001/02	Bern2, Bonn2, CHS2, HDir4, LBAP-T, WCA5	PC
<i>Chroicocephalus ridibundus</i> (Black-headed Gull / Gwylan Benddu)	SJ2747	3 records, between 01/11/2014 and 02/11/2015	Steven Davies	18; 10+; 1		Penycae, Bryn Goleu	BirdTrack; Bird Track	D1297/025/01	BDir2.2, LBAP-G, RD1-VU, S7, UKBA, WBR	PC
<i>Chroicocephalus ridibundus</i> (Black-headed Gull / Gwylan Benddu)	SJ2845	6 records, between 06/01/2007 and 03/02/2015	Peter Lawton	1; 20; 3; 4; 2; 12		Penycae, E	Birdtrack; Birdtrack;; Bird Track	D1297/025/01	BDir2.2, LBAP-G, RD1-VU, S7, UKBA, WBR	PC
<i>Circus cyaneus</i> (Hen Harrier / Boda Tinwyn)	SJ24	17/12/2008	John Rushton	1 Male	Reported to recorder	-Withheld-	-Withheld-	D0062/008/01	BDir1, Bonn2, CITES-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, RD1-VU, S7, UKBR, WBR, WCA1.1	NA
<i>Coccothraustes coccothraustes</i> (Hawfinch / Gylfinbraff)	SJ2745	2 records, between 30/10/2010 and 11/04/2018	JA Jackson	1; 1 Adult	Reported to recorder	Penycae	Survey: Observer data; Below feeders. Stayed 1 hour. Survey: Observer data	D0062/008/01	BAP, Bern2, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RD1-EN, S7, UKBR, WBA	NA
<i>Coccothraustes coccothraustes</i> (Hawfinch / Gylfinbraff)	SJ2747	09/10/2011	JA Jackson	3	Reported to recorder	Penycae, Bryn Goleu	Moving N. Survey: Observer data	D0062/008/01	BAP, Bern2, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RD1-EN, S7, UKBR, WBA	NA
<i>Coccothraustes coccothraustes</i> (Hawfinch / Gylfinbraff)	SJ2645	28/11/2005	JA Jackson	4	Reported to recorder	Penycae, Trefechan	Probably this species. Survey: Observer data	D0062/008/01	BAP, Bern2, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RD1-EN, S7, UKBR, WBA	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Cotoneaster horizontalis</i> (Wall Cotoneaster / Cotoneaster Asgwrn Pysgodyn)	SJ2745	17/09/2011	Shanklin, J.			Penycae		D1169/004/02	GBNNSIP, INNS, WCA9	NA
<i>Crocasmia pottsii</i> <i>x aurea</i> = <i>C. x crocosmiiflora</i> (Montbretia / Crib-y-Ceiliog)	SJ2746	30/07/2015	Jonathan Shanklin			Tainant		D1169/004/02	GBNNSIP, INNS, WCA9	NA
<i>Cuculus canorus</i> (Cuckoo / Cog)	SJ2747 (Selected from Interactive Map)	5 records, between 04/05/2014 and 21/07/2018	Kim Norman; Mr P E Miller; JA Jackson	1 Full-Grown; 1; 1 Juvenile	Reported to recorder	Ty Mawr reservoir	Only heard the calling; Survey: Observer data	D1117/001/01 , D1297/021/01 , D0062/008/01	BAP, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RD1-VU, S7, UKBR, WBR	PC, NA
<i>Cuculus canorus</i> (Cuckoo / Cog)	SJ2745	4 records, between 23/04/2006 and 08/06/2014	JA Jackson	1; 1 Male	Reported to recorder	Penycae	1st song of year. Survey: Observer data; first song of spring. Survey: Observer data; Survey: Observer data; Also on 6,7.vi. First there in ages. Activity: S. Survey: Observer data	D0062/008/01	BAP, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RD1-VU, S7, UKBR, WBR	NA
<i>Cuculus canorus</i> (Cuckoo / Cog)	SJ2647	02/05/2007	John Rushton	1 Male	Reported to recorder	Penycae, Cae Llwyd Reservoir	Survey: Observer data	D0062/008/01	BAP, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RD1-VU, S7, UKBR, WBR	NA
<i>Cuculus canorus</i> (Cuckoo / Cog)	SJ2645	5 records, between 17/06/2014 and 07/05/2019	John Lawton Roberts; JA Jackson; John Rushton; J.A.Jackson	1; 1 Male	Reported to recorder	Penycae, Trefechan	Activity: S. Survey: Observer data; BirdTrack; Breeding activity: Singing male	D0062/008/01 , D1297/025/01 , D0062/010/01	BAP, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RD1-VU, S7, UKBR, WBR	NA, PC
<i>Cuculus canorus</i> (Cuckoo / Cog)	SJ263469 (Selected from Interactive Map)	10/05/2020	Kim Norman	1 Adult		Newtown forest	Heard calling and seen flying	D1117/001/01	BAP, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RD1-VU, S7, UKBR, WBR	PC
<i>Cuculus canorus</i> (Cuckoo / Cog)	SJ2646	3 records, between 29/04/2014 and 21/05/2014	John Rushton	1; 2		Penycae, NW	BirdTrack; BirdTrack. Activity: S	D1297/025/01	BAP, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RD1-VU, S7, UKBR, WBR	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Dryobates minor</i> (Lesser Spotted Woodpecker / Cnocell Fraith Leiaf)	SJ2745	7 records, between 26/06/2006 and 02/04/2018	JA Jackson	1; 1 Adult	Reported to recorder	Penycae	Near feeders. Survey: Observer data; near feeders - only record in my study area this year. Survey: Observer data; Survey: Observer data; With birds near but not on feeders. Survey: Observer data; Near bird feeders. Survey: Observer data	D0062/008/01	BAP, Bern2, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RD1-EN, S7, UKBR, WBR	NA
<i>Dryobates minor</i> (Lesser Spotted Woodpecker / Cnocell Fraith Leiaf)	SJ2645	4 records, between 16/01/2004 and 11/04/2016	John Lawton Roberts; JA Jackson	1	Reported to recorder	Penycae, Trefechan	Survey: Observer data	D0062/008/01	BAP, Bern2, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RD1-EN, S7, UKBR, WBR	NA
<i>Dryobates minor</i> (Lesser Spotted Woodpecker / Cnocell Fraith Leiaf)	SJ2746	29/09/2019	J.A.Jackson	1		Penycae, Tainant	Seen clearly	D0062/010/01	BAP, Bern2, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RD1-EN, S7, UKBR, WBR	NA
<i>Emberiza schoeniclus</i> (Reed Bunting / Bras y Cyrs)	SJ2747	26/05/2016	Mr P E Miller	4		Mawr Reservoir, Bronwylfa		D1297/021/01	BAP, Bern2, LBAP-C, LBAP-D, LBAP-F, LBAP-G, S7, UKBA, WBA	PC
<i>Emberiza schoeniclus</i> (Reed Bunting / Bras y Cyrs)	SJ2745	14/03/2018	JA Jackson	1	Reported to recorder	Penycae	With Sis at feeders. Survey: Observer data	D0062/008/01	BAP, Bern2, LBAP-C, LBAP-D, LBAP-F, LBAP-G, S7, UKBA, WBA	NA
<i>Emberiza schoeniclus</i> (Reed Bunting / Bras y Cyrs)	SJ2646	3 records, between 16/04/2012 and 27/03/2015	Hilary Nash; John Rushton	1 Male; 2; 3	Reported to recorder	Penycae, NW	Survey: Observer data; Bird Track; Bird Track	D0062/008/01 , D1297/025/01	BAP, Bern2, LBAP-C, LBAP-D, LBAP-F, LBAP-G, S7, UKBA, WBA	NA, PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Emberiza schoeniclus</i> (Reed Bunting / Bras y Cyrs)	SJ2647	2 records, between 25/06/2012 and 24/07/2018	Neil Sumner; Trevor B Taylor	1		Penycae, Cae Llwyd Reservoir	BirdTrack. Activity: H	D1297/025/01	BAP, Bern2, LBAP-C, LBAP-D, LBAP-F, LBAP-G, S7, UKBA, WBA	PC
<i>Entephria caesiata</i> (Grey Mountain Carpet / Brychan Llwyd y Mynydd)	SJ264465	23/06/1987	J.B. Formstone	1 Adult		Top y Tainant	Habitat: Heathland. Method: Netted	D1285/001/03	BAP, LBAP-G, S7	NA
<i>Erinaceus europaeus</i> (Hedgehog / Draenog)	SJ2645 (Estimated (Centroid of Site))	10/08/2007	J.A. Jackson	1 Juvenile		Pen-y-Cae Reservoir Cottage	Youngster, 'squeaking', given food and 'put in safe place.'	D0967/002/01	BAP, Bern3, LBAP-A, LBAP-C, LBAP-F, LBAP-G, RD1-VU, S7	PC
<i>Erinaceus europaeus</i> (Hedgehog / Draenog)	SJ2745	2 records, between 12/02/2015 and 26/06/2017	J.A. Jackson; J.A. Jackson	1		Penycae	Near house, by hibernation site; 1 under bird feeders at Penycae	D0967/009/01 , D0967/014/01	BAP, Bern3, LBAP-A, LBAP-C, LBAP-F, LBAP-G, RD1-VU, S7	UA
<i>Erinaceus europaeus</i> (Hedgehog / Draenog)	SJ2845	2006	Anon	1 adult				D1847/001/01	BAP, Bern3, LBAP-A, LBAP-C, LBAP-F, LBAP-G, RD1-VU, S7	UA
<i>Erinaceus europaeus</i> (Hedgehog / Draenog)	SJ274454 (Supplied by Original Recorder (Checked))	25/04/2018	J.A. Jackson	1		Pen-y-Cae		D0967/017/01	BAP, Bern3, LBAP-A, LBAP-C, LBAP-F, LBAP-G, RD1-VU, S7	UA
<i>Falco columbarius</i> (Merlin / Cudyll Bach)	SJ24	15/11/2010	JA Jackson	1 Female	Reported to recorder	-Withheld-	-Withheld-	D0062/008/01	BDir1, Bern2, Bonn2, CITES-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RD1-DD, RD1- EN, UKBR, WBA, WCA1.1	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Falco columbarius</i> (Merlin / Cudyll Bach)	SJ24	2 records, between 31/12/2007 and 28/03/2011	Per John Lawton Roberts; JA Jackson	1 Male	Reported to recorder	-Withheld-	-Withheld-	D0062/008/01	BDir1, Bern2, Bonn2, CITES-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RD1-DD, RD1-EN, UKBR, WBA, WCA1.1	NA
<i>Falco columbarius</i> (Merlin / Cudyll Bach)	SJ24	03/04/2005	JA Jackson	1 Male	Reported to recorder	-Withheld-	-Withheld-	D0062/008/01	BDir1, Bern2, Bonn2, CITES-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RD1-DD, RD1-EN, UKBR, WBA, WCA1.1	NA
<i>Falco peregrinus</i> (Peregrine / Hebog Tramor)	SJ24	2 records, between 14/03/2015 and 12/05/2016	JA Jackson; Steven Davies	3; 1	Reported to recorder	-Withheld-	-Withheld-	D0062/008/01 , D1297/025/01	BDir1, Bern2, Bonn2, CITES-A, GBNN SIP, LBAP-A, LBAP-C, LBAP-G, WCA1.1	NA, PC
<i>Falco peregrinus</i> (Peregrine / Hebog Tramor)	SJ24	06/11/2012	John Rushton	1		-Withheld-	-Withheld-	D1297/025/01	BDir1, Bern2, Bonn2, CITES-A, GBNN SIP, LBAP-A, LBAP-C, LBAP-G, WCA1.1	PC
<i>Falco subbuteo</i> (Hobby / Hebog yr Ehedydd)	SJ24	39 records, between 14/05/2005 and 14/08/2019	JA Jackson; J.A.Jackson	1; 2; 1 Adult; 1+ Adult	Reported to recorder	-Withheld-	-Withheld-	D0062/008/01 , D0062/010/01	Bern2, Bonn2, CITES-A, LBAP-C, LBAP-G, WBA, WCA1.1	NA
<i>Falco subbuteo</i> (Hobby / Hebog yr Ehedydd)	SJ24	5 records, between 08/07/2005 and 04/07/2009	JA Jackson; Jason Newton	1; 1 Firstsummer; 1 Secondyear	Reported to recorder	-Withheld-	-Withheld-	D0062/008/01	Bern2, Bonn2, CITES-A, LBAP-C, LBAP-G, WBA, WCA1.1	NA
<i>Falco subbuteo</i> (Hobby / Hebog yr Ehedydd)	SJ24	13/06/2006	JA Jackson	1	Reported to recorder	-Withheld-	-Withheld-	D0062/008/01	Bern2, Bonn2, CITES-A, LBAP-C, LBAP-G, WBA, WCA1.1	NA
<i>Falco tinnunculus</i> (Kestrel / Cudyll Coch)	SJ2647	3 records, between 16/04/2007 and 02/11/2015	Neil Sumner; Steven Davies	1		Penycae, Cae Llwyd Reservoir	Birdtrack; BirdTrack; Bird Track	D1297/025/01	Bern2, Bonn2, CITES-A, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RD1-VU, S7, UKBA, WBR	PC
<i>Falco tinnunculus</i> (Kestrel / Cudyll Coch)	SJ2845	6 records, between 17/02/2007 and 10/07/2015	Peter Lawton	1; 2		Penycae, E	Birdtrack; Bird Track	D1297/025/01	Bern2, Bonn2, CITES-A, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RD1-VU, S7, UKBA, WBR	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Ficedula hypoleuca</i> (Pied Flycatcher / Gwybedog Brith)	SJ2645	04/05/2007	John Rushton	1	Reported to recorder	Penycae, Trefechan	Survey: Observer data	D0062/008/01	Bonn2, LBAP-C, LBAP-G, LBAP-S, RD1-VU, S7, UKBR, WBR	NA
<i>Ficedula hypoleuca</i> (Pied Flycatcher / Gwybedog Brith)	SJ2647	15/04/2007	John Lawton Roberts	1 Male	Reported to recorder	Penycae, Cae Llwyd Reservoir	1st of spring near Llangollen. Survey: Observer data	D0062/008/01	Bonn2, LBAP-C, LBAP-G, LBAP-S, RD1-VU, S7, UKBR, WBR	NA
<i>Ficedula hypoleuca</i> (Pied Flycatcher / Gwybedog Brith)	SJ2746	2 records, between 11/05/2011 and 21/05/2011	John Lawton Roberts	1 Male	Reported to recorder	Penycae, Tainant	Survey: Observer data	D0062/008/01	Bonn2, LBAP-C, LBAP-G, LBAP-S, RD1-VU, S7, UKBR, WBR	NA
<i>Fringilla montifringilla</i> (Brambling / Pinc y Mynydd)	SJ2745	26 records, between 09/02/2006 and 05/12/2019	JA Jackson; John Lawton Roberts; J.A.Jackson	1; 2; 3; 7; 10; 12; 20; 2 Female; 2 Male; 30+; 40+; 8+; 1 male	Reported to recorder	Penycae	1st of autumn. Survey: Observer data; 1st of autumn, very late. Survey: Observer data; First of autumn, heard among Chaffinches. Survey: Observer data; Moving SW, 1+. Survey: Observer data; Moving SW, 1+, 1st of autumn. Survey: Observer data; First of autumn. Survey: Observer data; First at feeders	D0062/008/01 , D0062/010/01	LBAP-C, WCA1.1	NA
<i>Fringilla montifringilla</i> (Brambling / Pinc y Mynydd)	SJ2747	11/10/2007	JA Jackson		Reported to recorder	Penycae, Bryn Goleu	1st of autumn, amongst 14 Chaffinches flying over. Survey: Observer data	D0062/008/01	LBAP-C, WCA1.1	NA
<i>Fringilla montifringilla</i> (Brambling / Pinc y Mynydd)	SJ2845	2 records, between 10/02/2008 and 14/02/2013	Peter Lawton	1		Penycae, E	Birdtrack; BirdTrack	D1297/025/01	LBAP-C, WCA1.1	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Hyacinthoides non-scripta</i> (Bluebell)	SJ2645	06/06/2015	Stead.M.O.			Penycae		D1169/004/02	LBAP-A, LBAP-C, LBAP-F, LBAP-S, LBAP-T, WCA8	NA
<i>Hyacinthoides non-scripta</i> (Bluebell)	SJ2646	2 records, between 17/09/2011 and 28/09/2014	Stead, M.O.; Shanklin, J.			Tainant		D1169/004/02	LBAP-A, LBAP-C, LBAP-F, LBAP-S, LBAP-T, WCA8	NA
<i>Hyacinthoides non-scripta</i> (Bluebell)	SJ2745	2 records, between 17/09/2011 and 04/06/2015	Stead.M.O.; Shanklin, J.			Penycae		D1169/004/02	LBAP-A, LBAP-C, LBAP-F, LBAP-S, LBAP-T, WCA8	NA
<i>Lamiastrum galeobdolon</i> subsp. <i>argentatum</i> (Variegated Yellow Archangel)	SJ2746	30/07/2011	Shanklin, J.			Tainant	1st for SJ 24?	D1169/004/02	GBNNSIP, INNS, WCA9	NA
<i>Larus argentatus</i> (Herring Gull / Gwylan y Penwaig)	SJ2747	6 records, between 04/07/2009 and 30/03/2018	Jason Newton; Steven Davies; Anne Brenchley	1; 50; 20+; 22	Reported to recorder	Penycae, Bryn Goleu	Ty-Mawr Reservoir. Survey: Observer data; BirdTrack; Bird Track. Activity: X; Bird Track	D0062/008/01 , D1297/025/01	BAP, BDir2.2, LBAP-C, LBAP-G, RD1-DD, RD1-EN, S7, UKBR, WBR	NA, PC
<i>Larus argentatus</i> (Herring Gull / Gwylan y Penwaig)	SJ2645	08/02/2015	Peter Lawton	1		Penycae, Trefechan	Bird Track	D1297/025/01	BAP, BDir2.2, LBAP-C, LBAP-G, RD1-DD, RD1-EN, S7, UKBR, WBR	PC
<i>Lasiommata megera</i> (Wall / Gweirlöyn y Cloddiau)	SJ273454	2 records, both on 27/08/2006	J. L. Roberts	1 Adult		Pen y Cae, Bottom Reservoir		D1373/001/05	BAP, LBAP-G, RD1-NT, S7	NA
<i>Lepus europaeus</i> (Hare / Ysgyfarnog)	SJ2745 (Estimated Centroid of Site))	3 records, between Summer 2011 and 27/06/2015	V.H. Whittaker; J. A. Jackson; J.A. Jackson	1; 1 leveret	Live Sighting	Pen Y Cae, Wrexham	Seen 3/4 times running in open fields and on nearby B road; Seen in area where 2 adults seen earlier; Close to house	D0108/001/03 , D0967/008/01 , D0967/009/01	BAP, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, S7	PC, UA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Lepus europaeus</i> (Hare / Ysgyfarnog)	SJ2645	2 records, between 26/04/2015 and 06/03/2017	J.A. Jackson; John Lawton Roberts and J.A.Jackson	4/5; 2		Newtown Mountain	On field by conifer planting; On field and into forest	D0967/009/01 , D0967/014/01	BAP, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, S7	UA
<i>Lepus europaeus</i> (Hare / Ysgyfarnog)	SJ267454	2 records, between 16/02/2019 and 11/11/2020	J.A.Jackson; J. A. Jackson	1; 1 adult		Field beside top Penycae Reservoir	On field	D0967/019/01 , D0967/020/01	BAP, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, S7	PC
<i>Linaria cannabina</i> (Linnet / Llinos)	SJ2747	3 records, between 23/05/2004 and 29/04/2016	Mr P E Miller; Norman Hallas; Jason Newton	3; 2; 1	Reported to recorder	Mawr Reservoir, Bronwylfa	Survey: Observer data; Bryn Golem. Activity: H. Survey: Observer data	D1297/021/01 , D0062/008/01	BAP, Bern2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RD1-EN, RD1-NT, S7, UKBR, WBR	PC, NA
<i>Linaria cannabina</i> (Linnet / Llinos)	SJ2645	2 records, between 27/03/2004 and 25/08/2011	John Rushton; John Lawton Roberts	5; 33	Reported to recorder	Penycae, Trefechan	Survey: Observer data	D0062/008/01	BAP, Bern2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RD1-EN, RD1-NT, S7, UKBR, WBR	NA
<i>Linaria cannabina</i> (Linnet / Llinos)	SJ2647	5 records, between 02/05/2005 and 24/07/2018	John Lawton Roberts; Jason Newton; Neil Sumner; Trevor B Taylor	14; 2; 20+	Reported to recorder	Penycae, Cae Llwyd Reservoir	On moor edge. Survey: Observer data; Activity: H. Survey: Observer data; Birdtrack; BirdTrack. Activity: H	D0062/008/01 , D1297/025/01	BAP, Bern2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RD1-EN, RD1-NT, S7, UKBR, WBR	NA, PC
<i>Linaria cannabina</i> (Linnet / Llinos)	SJ2745	13/08/2016	JA Jackson	2 Juvenile	Reported to recorder	Penycae	Under bird feeders. Survey: Observer data	D0062/008/01	BAP, Bern2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RD1-EN, RD1-NT, S7, UKBR, WBR	NA
<i>Linaria cannabina</i> (Linnet / Llinos)	SJ2646	11/07/2009	Jason Newton	1	Reported to recorder	Penycae, NW	Activity: H. Survey: Observer data	D0062/008/01	BAP, Bern2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RD1-EN, RD1-NT, S7, UKBR, WBR	NA
<i>Linaria cannabina</i> (Linnet / Llinos)	SJ2845	11/01/2011	Peter Lawton	1		Penycae, E	BirdTrack	D1297/025/01	BAP, Bern2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RD1-EN, RD1-NT, S7, UKBR, WBR	PC
<i>Linaria flavirostris</i> (Twite / Llinos y Mynydd)	SJ24	10/04/2014	John Rushton	1		-Withheld-	-Withheld-	D1297/025/01	BAP, Bern2, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, RD1-NT, RD1-VU, S7, UKBR, WBR	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Locustella naevia</i> (Grasshopper Warbler / Troellwr Bach)	SJ2646	04/05/2010	John Lawton Roberts	1	Reported to recorder	Penycae, NW	Survey: Observer data	D0062/008/01	BAP, LBAP-C, LBAP-D, LBAP-F, LBAP-G, S7, UKBR, WBR	NA
<i>Locustella naevia</i> (Grasshopper Warbler / Troellwr Bach)	SJ2647	04/05/2010	John Lawton Roberts	1 Male	Reported to recorder	Penycae, Cae Llwyd Reservoir	Survey: Observer data	D0062/008/01	BAP, LBAP-C, LBAP-D, LBAP-F, LBAP-G, S7, UKBR, WBR	NA
<i>Loxia curvirostra</i> (Crossbill / Gylfingroes)	SJ2645	6 records, between 02/04/2005 and 02/02/2014	JA Jackson; John Lawton Roberts	1; 2; 4; 1 Female; 1 Male; 50+	Reported to recorder	Penycae, Trefechan	Survey: Observer data; Identical spot to last record. Survey: Observer data; displaying pair. Survey: Observer data; Tight flock. Survey: Observer data	D0062/008/01	Bern2, LBAP-C, WCA1.1	NA
<i>Loxia curvirostra</i> (Crossbill / Gylfingroes)	SJ2745	9 records, between 27/01/2006 and 01/11/2017	JA Jackson	3; 7; 10; 11; 20; 25; 30; 40	Reported to recorder	Penycae	Near feeders. Survey: Observer data; Survey: Observer data; Flew due W. Survey: Observer data; Moving W, towards mountain edge. Survey: Observer data; Moving NW. Survey: Observer data; Flew due W. Few seen this winter. Survey: Observer data	D0062/008/01	Bern2, LBAP-C, WCA1.1	NA
<i>Loxia curvirostra</i> (Crossbill / Gylfingroes)	SJ2646	25/03/2005	John Lawton Roberts		Reported to recorder	Penycae, NW	Survey: Observer data	D0062/008/01	Bern2, LBAP-C, WCA1.1	NA
<i>Loxia curvirostra</i> (Crossbill / Gylfingroes)	SJ2647	02/11/2015	Steven Davies	2		Penycae, Cae Llwyd Reservoir	Bird track. flying south	D1297/025/01	Bern2, LBAP-C, WCA1.1	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Lutra lutra</i> (Otter / Dyfrgi)	SJ2745 (Supplied by Original Recorder)	09/10/2010	J. A. Jackson		Tracks/Trail	-Withheld-	-Withheld-	D0967/005/01	BAP, Bern2, CHS2, CITES-A, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	PC
<i>Lutra lutra</i> (Otter / Dyfrgi)	SJ2745	2 records, between 02/04/2018 and 25/04/2019	J.A. Jackson; Anon (Many Observers)	1	Tracks/Trail	-Withheld-	-Withheld-	D0967/017/01 , D0967/019/01	BAP, Bern2, CHS2, CITES-A, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	UA
<i>Lutra lutra</i> (Otter / Dyfrgi)	SJ2845	25/04/2019	Anon (Many Observers)	1		-Withheld-	-Withheld-	D0967/019/01	BAP, Bern2, CHS2, CITES-A, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	UA
<i>Meles meles</i> (Badger / Mochyn Daeear)	SJ2746	29/09/2001	Clwyd Badger Group		Badger Sett	-Withheld-	-Withheld-	D0059/001/03	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-W, PBA	NA
<i>Meles meles</i> (Badger / Mochyn Daeear)	SJ2646	1970 to 1979	Clwyd Badger Group		Badger Sett	-Withheld-	-Withheld-	D0059/001/03	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-W, PBA	NA
<i>Milvus milvus</i> (Red Kite / Barcud)	SJ24	28/06/2006	JA Jackson	1	Reported to recorder	-Withheld-	-Withheld-	D0062/008/01	BDir1, Bonn2, CITES-A, LBAP-C, LBAP-G, WBA, WCA1.1	NA
<i>Milvus milvus</i> (Red Kite / Barcud)	SJ24	9 records, between 18/08/2007 and 28/06/2016	JA Jackson	1; 1 Adult	Reported to recorder	-Withheld-	-Withheld-	D0062/008/01	BDir1, Bonn2, CITES-A, LBAP-C, LBAP-G, WBA, WCA1.1	NA
<i>Milvus milvus</i> (Red Kite / Barcud)	SJ24	25/04/2018	JA Jackson	1	Reported to recorder	-Withheld-	-Withheld-	D0062/008/01	BDir1, Bonn2, CITES-A, LBAP-C, LBAP-G, WBA, WCA1.1	NA
<i>Milvus milvus</i> (Red Kite / Barcud)	SJ24	2 records, between 17/03/2011 and 07/05/2017	Per John Lawton Roberts; JA Jackson	2; 1 Adult	Reported to recorder	-Withheld-	-Withheld-	D0062/008/01	BDir1, Bonn2, CITES-A, LBAP-C, LBAP-G, WBA, WCA1.1	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Muscicapa striata</i> (Spotted Flycatcher / Gwybedog Mannog)	SJ2746	3 records, between 15/05/2010 and 21/05/2011	John Lawton Roberts	1 Adult; 1 Male; 3 Male	Reported to recorder	Penycae, Tainant	1st of year. Survey: Observer data; My first of year. Survey: Observer data; Survey: Observer data	D0062/008/01	BAP, Bern2, Bonn2, LBAP-C, LBAP-D, LBAP-F, LBAP-G, S7, UKBR, WBR	NA
<i>Muscicapa striata</i> (Spotted Flycatcher / Gwybedog Mannog)	SJ2645	2 records, between 27/05/2004 and 16/06/2014	John Lawton Roberts; JA Jackson	1 Male; 2	Reported to recorder	Penycae, Trefechan	Singing. Survey: Observer data; Activity: FF. Survey: Observer data	D0062/008/01	BAP, Bern2, Bonn2, LBAP-C, LBAP-D, LBAP-F, LBAP-G, S7, UKBR, WBR	NA
<i>Muscicapa striata</i> (Spotted Flycatcher / Gwybedog Mannog)	SJ2745	24/05/2016	John Rushton	1		Penycae	BirdTrack	D1297/025/01	BAP, Bern2, Bonn2, LBAP-C, LBAP-D, LBAP-F, LBAP-G, S7, UKBR, WBR	PC
<i>Muscicapa striata</i> (Spotted Flycatcher / Gwybedog Mannog)	SJ2845	16/06/2011	Peter Lawton	1		Penycae, E	BirdTrack	D1297/025/01	BAP, Bern2, Bonn2, LBAP-C, LBAP-D, LBAP-F, LBAP-G, S7, UKBR, WBR	PC
<i>Mustela putorius</i> (Polecat / Ffwlbart)	SJ274456 (Supplied by Original Recorder)	2 records, between 2008 and ~ 26/03/2008	J A Jackson	2; 1 Adult; 1 Juvenile		Penycae Reservoir	Week up to 26th March	D0967/003/01	BAP, Bern3, CHS4, GBNN SIP, HDir5, LBAP-C, LBAP-F, LBAP-G, LBAP-S, S7	PC
<i>Mustela putorius</i> (Polecat / Ffwlbart)	SJ275456 (Supplied by Original Recorder)	2008	J A Jackson	5		Penycae Reservoir house	Brood of 5 in woodpile	D0967/003/01	BAP, Bern3, CHS4, GBNN SIP, HDir5, LBAP-C, LBAP-F, LBAP-G, LBAP-S, S7	PC
<i>Mustela putorius</i> (Polecat / Ffwlbart)	SJ2745	03/01/2014	J. A. Jackson	1		Penycae Reservoir	Smallish animal, 40 sheep ticks, clearly weak.	D0967/008/01	BAP, Bern3, CHS4, GBNN SIP, HDir5, LBAP-C, LBAP-F, LBAP-G, LBAP-S, S7	UA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Mustela putorius</i> (Polecat / Ffwlbart)	SJ273454	10/10/2016	J. A. Jackson	1		Penycae	Dead. 10+ bloated sheep ticks, 3-4 at chitiny stage	D0967/012/01	BAP, Bern3, CHS4, GBNSIP, HDir5, LBAP-C, LBAP-F, LBAP-G, LBAP-S, S7	UA
<i>Natrix helvetica</i> (Grass Snake / Neidr y Gwair)	SJ2647	2003	Anon.			Ruabon Mountain		D0035/002/01	BAP, Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, LBAP-T, S7, WCA5	PC
<i>Natrix helvetica</i> (Grass Snake / Neidr y Gwair)	SJ2645	2 records, between 03/06/2007 and 14/07/2015	JL Roberts; J.A. Jackson	2; 1		Pen-y-cae	By Top Reservoir; 4ft long	D0035/002/01 , D0967/009/01	BAP, Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, LBAP-T, S7, WCA5	KC, PC
<i>Natrix helvetica</i> (Grass Snake / Neidr y Gwair)	SJ273454	28/03/2011	JA Jackson	1 Adult Female		Penycae Reservoir	Record via John Lawton Roberts	D0035/002/01	BAP, Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, LBAP-T, S7, WCA5	PC
<i>Natrix helvetica</i> (Grass Snake / Neidr y Gwair)	SJ2745	14/07/2015	J.A. Jackson	1		Penycae Church	3ft on road beside Penycae Church. Moved to safety	D0967/009/01	BAP, Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, LBAP-T, S7, WCA5	PC
<i>Neovison vison</i> (American Mink / Minc)	SJ274456 (Supplied by Original Recorder)	~ 26/03/2008	J A Jackson	2		Penycae Reservoir	Week up to 26th March	D0967/003/01	GBNSIP, INNS, WCA9	PC
<i>Neovison vison</i> (American Mink / Minc)	SJ274454 (Supplied by Original Recorder)	19/02/2011	J. A. Jackson	1 Male		Penycae Lower Reservoir	A large male	D0967/004/01	GBNSIP, INNS, WCA9	PC
<i>Neovison vison</i> (American Mink / Minc)	SJ273454	09/10/2016	J. A. Jackson	1		Penycae		D0967/012/01	GBNSIP, INNS, WCA9	UA
<i>Numenius arquata</i> (Curlew / Gylfinir)	SJ272471 (Estimated Centroid of Site))	~ 2005	BASC Recorder (12086738-1)				Shoot Size Range: 0-3km	D0132/001/02	BAP, BDir2.2, Bonn2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, RD1-EN, S7, UKBR, WBR	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Numenius arquata</i> (Curlew / Gylfinir)	SJ2747	15 records, between 03/05/2004 and 06/04/2019	Mr P E Miller; Kevin J Smith; JA Jackson; Per John Lawton Roberts; Steven Davies; Neil Hughes; Paul E Miller; Mr Steven Davies	c20; 2; 4; 1; 30+; 40 Adult; 5+; 26; 14; 4+; 6	Reported to recorder	Mawr Reservoir, Bronwylfa	Survey: Observer data; First on uplands in study area. Survey: Observer data; Flock by rushy pool off moor. Survey: Observer data; 1st arrival on uplands. Survey: Observer data; Bird track. Marshy field south of reservoir; BirdTrack	D1297/021/01 , D0062/008/01 , D1297/025/01 , D1297/026/01	BAP, BDir2.2, Bonn2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, RD1-EN, S7, UKBR, WBR	PC, NA
<i>Numenius arquata</i> (Curlew / Gylfinir)	SJ27154573 (Estimated (Centroid of Site))	April 2018	Victoria Knight	1 Adult		Pen-y-Cae	Heard their 'pee-wit' call on nearby fields when I've been with my horses at Trefechan, Pen-y-Cae LL14 1UE. When out riding in previous years I've seen them in a field in nearby Tainant. heard their 'pee-wit' call on nearby fields when I've been with my horses at Trefechan, Pen-y-Cae LL14 1UE. ...	D1814/001/01	BAP, BDir2.2, Bonn2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, RD1-EN, S7, UKBR, WBR	PC
<i>Numenius arquata</i> (Curlew / Gylfinir)	SJ264470 (Selected from Interactive Map)	14/05/2019	David Williams	4 Adult		Pant Glas Reservoir	2 pairs near Pant Glas reservoir Penycae. Curlews have been here for at least 60 years.	D1814/001/01	BAP, BDir2.2, Bonn2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, RD1-EN, S7, UKBR, WBR	PC
<i>Numenius arquata</i> (Curlew / Gylfinir)	SJ2646	7 records, between 23/05/2004 and 08/04/2015	Norman Hallas; Peter Lawton; John Rushton	1; 2; 3	Reported to recorder	Penycae, NW	Survey: Observer data; BirdTrack; Bird Track	D0062/008/01 , D1297/025/01	BAP, BDir2.2, Bonn2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, RD1-EN, S7, UKBR, WBR	NA, PC
<i>Numenius arquata</i> (Curlew / Gylfinir)	SJ2647	6 records, between 11/03/2007 and 25/03/2016	John Lawton Roberts; Per John Lawton Roberts; Neil Sumner; Steven Davies	3; 1 Pair; 55+; 2; 4; 24	Reported to recorder	Penycae, Cae Llwyd Reservoir	1st on RM itself. Survey: Observer data; Clearly with loose young. Survey: Observer data; Flying onto moor from fields below. Survey: Observer data; Birdtrack; BirdTrack. Activity: H; BirdTrack	D0062/008/01 , D1297/025/01	BAP, BDir2.2, Bonn2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, RD1-EN, S7, UKBR, WBR	NA, PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Numenius arquata</i> (Curlew / Gylfinir)	SJ2745	3 records, between 15/05/2010 and 05/03/2017	JA Jackson	10; 1 Adult; 1 Male	Reported to recorder	Penycae	Flying high to S, as 5 pairs. Survey: Observer data; Spring upland arrival. Survey: Observer data; Survey: Observer data	D0062/008/01	BAP, BDir2.2, Bonn2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, RD1-EN, S7, UKBR, WBR	NA
<i>Numenius arquata</i> (Curlew / Gylfinir)	SJ2645	4 records, between 15/05/2010 and 07/05/2019	JA Jackson; John Lawton Roberts; John Rushton	75; 1 Male; 1	Reported to recorder	Penycae, Trefechan	Moving NW, very high. Survey: Observer data; Survey: Observer data; BirdTrack; Breeding activity: Singing male	D0062/008/01 , D1297/025/01 , D0062/010/01	BAP, BDir2.2, Bonn2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, RD1-EN, S7, UKBR, WBR	NA, PC
<i>Numenius arquata</i> (Curlew / Gylfinir)	SJ2746	10/03/2014	John Rushton	1		Penycae, Tainant	BirdTrack	D1297/025/01	BAP, BDir2.2, Bonn2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, RD1-EN, S7, UKBR, WBR	PC
<i>Numenius phaeopus</i> (Whimbrel / Coegyfinir)	SJ24	2 records, between 04/05/2016 and 20/04/2017	Mr P E Miller; Paul E Miller	25; 2		-Withheld-	-Withheld-	D1297/021/01 , D1297/025/01	BDir2.2, Bonn2, LBAP-C, LBAP-G, RD1-CR, UKBR, WBA, WCA1.1	PC
<i>Numenius phaeopus</i> (Whimbrel / Coegyfinir)	SJ24	21/05/2007	John Lawton Roberts	1	Reported to recorder	-Withheld-	-Withheld-	D0062/008/01	BDir2.2, Bonn2, LBAP-C, LBAP-G, RD1-CR, UKBR, WBA, WCA1.1	NA
<i>Pandion haliaetus</i> (Osprey / Gwalch y Pysgod)	SJ24	2 records, between 16/04/2016 and 17/04/2016	JA Jackson	1	Reported to recorder	-Withheld-	-Withheld-	D0062/008/01	BDir1, Bonn2, CITES-A, LBAP-G, RD1-NT, UKBA, WBA, WCA1.1	NA
<i>Pandion haliaetus</i> (Osprey / Gwalch y Pysgod)	SJ24	5 records, between 08/06/2006 and 13/07/2017	JA Jackson	1; 2	Reported to recorder	-Withheld-	-Withheld-	D0062/008/01	BDir1, Bonn2, CITES-A, LBAP-G, RD1-NT, UKBA, WBA, WCA1.1	NA
<i>Pandion haliaetus</i> (Osprey / Gwalch y Pysgod)	SJ24	2 records, between 02/04/2004 and 07/09/2008	JA Jackson; John Lawton Roberts	1	Reported to recorder	-Withheld-	-Withheld-	D0062/008/01	BDir1, Bonn2, CITES-A, LBAP-G, RD1-NT, UKBA, WBA, WCA1.1	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Passer domesticus</i> (House Sparrow / Aderyn y To)	SJ2745	6 records, between 26/01/2008 and 13/08/2016	Anon; JA Jackson; Steven Davies; John Rushton	90+; 1; 3	Reported to recorder	Wrexham Denbighshire	Occurrence ID: NBN-GA000567-BGBW2008-22135325-139462167; Occurrence ID: NBN-GA000656-BGBW2009-16440957-106609154; roosting in laurels and cypresses in garden. Survey: Observer data; BirdTrack; Bird Track	D1852/001/01 , D1852/002/01 , D0062/008/01 , D1297/025/01	BAP, LBAP-C, LBAP-F, LBAP-G, S7, UKBR, WBA	PC, NA
<i>Passer domesticus</i> (House Sparrow / Aderyn y To)	SJ2845	36 records, between 28/01/2007 and 25/01/2017	Anon; Peter Lawton; Teresa Wright	2; 4; 3; 1; 6; 8; 14; 9; 5; 20; 10; 25; 23		Wrexham Denbighshire	Occurrence ID: NBN-GA000567-BGBW2008-22135369-139547731; Occurrence ID: NBN-GA000656-BGBW2009-16441714-106608868; Birdtrack; Birdtrack;; BirdTrack; Bird Track	D1852/001/01 , D1852/002/01 , D1297/025/01	BAP, LBAP-C, LBAP-F, LBAP-G, S7, UKBR, WBA	PC
<i>Passer domesticus</i> (House Sparrow / Aderyn y To)	SJ2846	2 records, between 26/01/2008 and 04/07/2009	Anon; Jason Newton	3	Reported to recorder	Wrexham Denbighshire	Occurrence ID: NBN-GA000567-BGBW2008-22135373-139489554; Activity: H. Survey: Observer data	D1852/001/01 , D0062/008/01	BAP, LBAP-C, LBAP-F, LBAP-G, S7, UKBR, WBA	PC, NA
<i>Passer domesticus</i> (House Sparrow / Aderyn y To)	SJ2746	4 records, between 11/07/2009 and 27/03/2015	John Rushton; Jason Newton	6; 2; 5; 10	Reported to recorder	Penycae, Tainant	Survey: Observer data; Activity: H. Survey: Observer data; BirdTrack; Bird Track	D0062/008/01 , D1297/025/01	BAP, LBAP-C, LBAP-F, LBAP-G, S7, UKBR, WBA	NA, PC
<i>Passer domesticus</i> (House Sparrow / Aderyn y To)	SJ2646	2 records, between 11/07/2009 and 21/05/2014	Jason Newton; John Rushton	3; 4	Reported to recorder	Penycae, NW	Activity: H. Survey: Observer data; BirdTrack	D0062/008/01 , D1297/025/01	BAP, LBAP-C, LBAP-F, LBAP-G, S7, UKBR, WBA	NA, PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Passer domesticus</i> (House Sparrow / Aderyn y To)	SJ2747	7 records, between 04/07/2009 and 14/04/2017	Jason Newton; Steven Davies	6; 2+; 10+; 2; 6+; 1	Reported to recorder	Penycae, Bryn Goleu	Bryn Golem. Activity: H. Survey: Observer data; BirdTrack; Bird Track	D0062/008/01 , D1297/025/01	BAP, LBAP-C, LBAP-F, LBAP-G, S7, UKBR, WBA	NA, PC
<i>Passer domesticus</i> (House Sparrow / Aderyn y To)	SJ2647	02/03/2013	Steven Davies			Penycae, Cae Llwyd Reservoir	BirdTrack	D1297/025/01	BAP, LBAP-C, LBAP-F, LBAP-G, S7, UKBR, WBA	PC
<i>Passer domesticus</i> (House Sparrow / Aderyn y To)	SJ2645	8 records, between 02/03/2013 and 21/03/2018	John Rushton; Steven Davies; Peter Lawton; Trevor B Taylor	9; 2; 4; 10; 3; 8		Penycae, Trefechan	BirdTrack; Bird Track	D1297/025/01	BAP, LBAP-C, LBAP-F, LBAP-G, S7, UKBR, WBA	PC
<i>Perdix perdix</i> (Grey Partridge / Petrisen)	SJ2745	09/02/2006	John Rushton	2	Reported to recorder	Penycae	Survey: Observer data	D0062/008/01	BAP, BDir2.1, GBNNSIP, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RD1-VU, S7, UKBR, WBR	NA
<i>Pernis apivorus</i> (Honey-buzzard / Boda'r Môl)	SJ	26/05/2016	Mr P E Miller	1		-Withheld-	-Withheld-	D1297/021/01	BDir1, Bonn2, CITES-A, RD1-EN, UKBA, WBA, WCA1.1	PC
<i>Phylloscopus sibilatrix</i> (Wood Warbler / Telor y Coed)	SJ2745	01/05/2008	John Lawton Roberts	1 Male	Reported to recorder	Penycae	Survey: Observer data	D0062/008/01	BAP, LBAP-C, LBAP-G, LBAP-S, RD1-VU, S7, UKBR, WBR	NA
<i>Phylloscopus sibilatrix</i> (Wood Warbler / Telor y Coed)	SJ2746	21/05/2014	John Rushton	1		Penycae, Tainant	BirdTrack	D1297/025/01	BAP, LBAP-C, LBAP-G, LBAP-S, RD1-VU, S7, UKBR, WBR	PC
<i>Pluvialis apricaria</i> (Golden Plover / Cwtiad Aur)	SJ2647	21/03/2017	Per John Lawton Roberts	2	Reported to recorder	Penycae, Cae Llwyd Reservoir	By rushy area off moor, one pair. Survey: Observer data	D0062/008/01	BDir1, BDir2.2, Bonn2, LBAP-C, LBAP-F, LBAP-G, LBAP-S, S7, WBR	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Prunella modularis</i> (Dunnock / Llwyd y Gwrych)	SJ2845	36 records, between 06/01/2007 and 23/03/2017	Anon; Peter Lawton	2; 1; 3; 4; 5			Occurrence ID: NBN-GA000656-BGBW2009-16441830-106179834; Birdtrack; Birdtrack;; BirdTrack; Bird Track	D1852/002/01 , D1297/025/01	BAP, Bern2, LBAP-C, S7, UKBA	PC
<i>Prunella modularis</i> (Dunnock / Llwyd y Gwrych)	SJ2745	2 records, between 24/01/2009 and 02/03/2013	Anon; Steven Davies	1			Occurrence ID: NBN-GA000656-BGBW2009-16440957-106179895; BirdTrack	D1852/002/01 , D1297/025/01	BAP, Bern2, LBAP-C, S7, UKBA	PC
<i>Prunella modularis</i> (Dunnock / Llwyd y Gwrych)	SJ2645	6 records, between 25/04/2011 and 21/03/2018	John Rushton; Peter Lawton; Trevor B Taylor	2; 1	Reported to recorder	Penycae, Trefechan	Activity: H. Survey: Observer data; BirdTrack	D0062/008/01 , D1297/025/01	BAP, Bern2, LBAP-C, S7, UKBA	NA, PC
<i>Prunella modularis</i> (Dunnock / Llwyd y Gwrych)	SJ2746	3 records, between 04/07/2009 and 27/03/2015	Jason Newton; John Rushton	1; 2; 3	Reported to recorder	Penycae, Tainant	Activity: S. Survey: Observer data; BirdTrack; Bird Track	D0062/008/01 , D1297/025/01	BAP, Bern2, LBAP-C, S7, UKBA	NA, PC
<i>Prunella modularis</i> (Dunnock / Llwyd y Gwrych)	SJ2846	04/07/2009	Jason Newton	1	Reported to recorder	Rhosllanerchrugog, W	Activity: S. Survey: Observer data	D0062/008/01	BAP, Bern2, LBAP-C, S7, UKBA	NA
<i>Prunella modularis</i> (Dunnock / Llwyd y Gwrych)	SJ2747	5 records, between 04/07/2009 and 23/03/2017	Jason Newton; Anne Brenchley; Steven Davies; Neil Hughes	2	Reported to recorder	Penycae, Bryn Goleu	Bryn Golem. Activity: S. Survey: Observer data; Bird Track. Activity: S; Bird Track; BirdTrack. Activity: P	D0062/008/01 , D1297/025/01	BAP, Bern2, LBAP-C, S7, UKBA	NA, PC
<i>Prunella modularis</i> (Dunnock / Llwyd y Gwrych)	SJ2647	4 records, between 16/04/2007 and 15/10/2016	Neil Sumner; Steven Davies	1; 2		Penycae, Cae Llwyd Reservoir	Birdtrack; BirdTrack. Activity: S; BirdTrack	D1297/025/01	BAP, Bern2, LBAP-C, S7, UKBA	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Prunella modularis</i> (Dunnoch / Llwyd y Gwrych)	SJ2646	2 records, between 21/05/2014 and 27/03/2015	John Rushton	2		Penycae, NW	BirdTrack; Bird Track	D1297/025/01	BAP, Bern2, LBAP-C, S7, UKBA	PC
<i>Pyrhula pyrrhula</i> (Bullfinch / Coch y Berllan)	SJ2845	20 records, between 25/04/2007 and 28/05/2015	Anon; Peter Lawton	2; 1			Occurrence ID: NBN-GA000656-BGBW2009-16441829-105771245; Birdtrack; Birdtrack;; BirdTrack; Birdtrack. female; BirdTrack. Activity: S; Bird Track	D1852/002/01 , D1297/025/01	BAP, LBAP-C, LBAP-D, LBAP-F, LBAP-G, S7, UKBA, WBR	PC
<i>Pyrhula pyrrhula</i> (Bullfinch / Coch y Berllan)	SJ2745	2 records, between 09/02/2018 and 03/05/2019	JA Jackson; J.A.Jackson	2; 1 pair	Reported to recorder	Penycae	On nut feeders. Survey: Observer data; First on feeders of winter-spring	D0062/008/01 , D0062/010/01	BAP, LBAP-C, LBAP-D, LBAP-F, LBAP-G, S7, UKBA, WBR	NA
<i>Pyrhula pyrrhula</i> (Bullfinch / Coch y Berllan)	SJ2747	14/04/2017	Steven Davies	1		Penycae, Bryn Goleu	BirdTrack	D1297/025/01	BAP, LBAP-C, LBAP-D, LBAP-F, LBAP-G, S7, UKBA, WBR	PC
<i>Pyrhula pyrrhula</i> (Bullfinch / Coch y Berllan)	SJ2746	21/05/2014	John Rushton	1		Penycae, Tainant	BirdTrack	D1297/025/01	BAP, LBAP-C, LBAP-D, LBAP-F, LBAP-G, S7, UKBA, WBR	PC
<i>Pyrhula pyrrhula</i> (Bullfinch / Coch y Berllan)	SJ2645	26/06/2013	John Rushton	2		Penycae, Trefechan	BirdTrack	D1297/025/01	BAP, LBAP-C, LBAP-D, LBAP-F, LBAP-G, S7, UKBA, WBR	PC
<i>Rhododendron ponticum</i> / Rhododendron Wylt	SJ2745	17/09/2011	Shanklin, J.			Penycae		D1169/004/02	GBNNSIP, INNS, WCA9	NA
<i>Streptopelia turtur</i> (Turtle Dove / Turtur)	SJ2645	01/08/2007	JA Jackson	1	Reported to recorder	Penycae, Trefechan	Song heard from forest. Survey: Observer data	D0062/008/01	BAP, BDir2.2, CITES-A, LBAP-C, LBAP-G, RD1-CR, S7, UKBR, WBR	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Sturnus vulgaris</i> (Starling / Drudwen)	SJ2846	26/01/2008 to 27/01/2008	Anon			Wrexham, Denbighshire	Occurrence ID: NBN-GA000567- BGBW2008- 22135729- 139489555	D1852/001/01	BAP, BDir2.2, LBAP-C, LBAP-F, LBAP-G, RD1-VU, S7, UKBR, WBR	PC
<i>Sturnus vulgaris</i> (Starling / Drudwen)	SJ2646	2 records, between 26/01/2008 and 24/11/2011	Anon; Hilary Nash	300	Reported to recorder	Wrexham, Denbighshire	Occurrence ID: NBN-GA000567- BGBW2008- 22135705- 139623966; Survey: Observer data	D1852/001/01 , D0062/008/01	BAP, BDir2.2, LBAP-C, LBAP-F, LBAP-G, RD1-VU, S7, UKBR, WBR	PC, NA
<i>Sturnus vulgaris</i> (Starling / Drudwen)	SJ2845	7 records, between 26/01/2008 and 12/01/2010	Anon; Teresa Wright; Peter Lawton	6; 4; 100+; 30; 1			Occurrence ID: NBN-GA000656- BGBW2009- 16441424- 106878531; Occurrence ID: NBN-GA000567- BGBW2008- 22135715- 139603656; Birdtrack; Birdtrack:	D1852/002/01 , D1852/001/01 , D1297/025/01	BAP, BDir2.2, LBAP-C, LBAP-F, LBAP-G, RD1-VU, S7, UKBR, WBR	PC
<i>Sturnus vulgaris</i> (Starling / Drudwen)	SJ2745	15 records, between 02/01/2005 and 11/05/2017	JA Jackson; John Rushton	6; 21; 40; 90; 200; 380; 550; 650; 840; 3500; 4500; 100+; 1000+; 6 Adult; 2	Reported to recorder	Penycae	4 young in nestbox outside Penycae. Survey: Observer data; Survey: Observer data; Moving due S. Survey: Observer data; Moving due N. Survey: Observer data; Moving S with thrushes. Survey: Observer data; Moving W, 07/10h. Survey: Observer data; Moving S, with Redwings, 07/45- 09/00h/. Survey: Obser...	D0062/008/01	BAP, BDir2.2, LBAP-C, LBAP-F, LBAP-G, RD1-VU, S7, UKBR, WBR	NA
<i>Sturnus vulgaris</i> (Starling / Drudwen)	SJ2747	5 records, between 04/07/2007 and 22/03/2018	Jason Newton; JA Jackson; Steven Davies; Neil Hughes; Trevor B Taylor	30; 200; 6; 100+	Reported to recorder	Penycae, Bryn Goleu	Post breeding flock on fields. Survey: Observer data; Mostly juveniles. Survey: Observer data; Bird Track	D0062/008/01 , D1297/025/01	BAP, BDir2.2, LBAP-C, LBAP-F, LBAP-G, RD1-VU, S7, UKBR, WBR	NA, PC
<i>Sturnus vulgaris</i> (Starling / Drudwen)	SJ2746	2 records, between 17/12/2008 and 21/05/2011	John Rushton; John Lawton Roberts	102; 3 Fullgrown	Reported to recorder	Penycae, Tainant	Survey: Observer data; Probably a family. Survey: Observer data	D0062/008/01	BAP, BDir2.2, LBAP-C, LBAP-F, LBAP-G, RD1-VU, S7, UKBR, WBR	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Sturnus vulgaris</i> (Starling / Drudwen)	SJ2645	22/02/2013	JA Jackson	350	Reported to recorder	Penycae, Trefechan	ditto. Survey: Observer data	D0062/008/01	BAP, BDir2.2, LBAP-C, LBAP-F, LBAP-G, RD1-VU, S7, UKBR, WBR	NA
<i>Sturnus vulgaris</i> (Starling / Drudwen)	SJ2647	7 records, between 16/04/2007 and 24/07/2018	Neil Sumner; Steven Davies; Trevor B Taylor	12; 30+; 50+; 20+		Penycae, Cae Llwyd Reservoir	Birdtrack; BirdTrack. Activity: F; BirdTrack; Bird Track	D1297/025/01	BAP, BDir2.2, LBAP-C, LBAP-F, LBAP-G, RD1-VU, S7, UKBR, WBR	PC
<i>Sturnus vulgaris</i> (Starling / Drudwen)	SJ268471	20/11/2014	Martyn Harris	20	Field record	East of Pant-glas Reservoir, Denbighshire		D0969/001/05	BAP, BDir2.2, LBAP-C, LBAP-F, LBAP-G, RD1-VU, S7, UKBR, WBR	UA
<i>Sturnus vulgaris</i> (Starling / Drudwen)	SJ269473	29/09/2016	Martyn Harris	>50	Field record	South of Cae-llwyd Reservoir, Penycae, Wrexham	"Some gathering on power lines, other swirling around nearby. "	D0969/001/05	BAP, BDir2.2, LBAP-C, LBAP-F, LBAP-G, RD1-VU, S7, UKBR, WBR	UA
<i>Troglodytes troglodytes</i> (Wren / Dryw)	SJ2845	16 records, between 28/01/2007 and 09/02/2015	Anon; Peter Lawton; Teresa Wright	1			Occurrence ID: NBN-GA000656-BGBW2009-16441424-106817414; Birdtrack; Birdtrack;; BirdTrack; Bird Track	D1852/002/01 , D1297/025/01	BAP, BDir1, Bern2, RD1-EN, RD1-VU	PC
<i>Troglodytes troglodytes</i> (Wren / Dryw)	SJ2745	4 records, between 20/07/2006 and 24/05/2016	John Rushton	1	Reported to recorder	Penycae	Survey: Observer data; BirdTrack; Bird Track	D0062/008/01 , D1297/025/01	BAP, BDir1, Bern2, RD1-EN, RD1-VU	NA, PC
<i>Troglodytes troglodytes</i> (Wren / Dryw)	SJ2645	19 records, between 13/03/2007 and 18/04/2015	John Rushton; Neil Hughes; Peter Lawton; Anne Brenchley	1; 2; 3; 4	Reported to recorder	Penycae, Trefechan	Survey: Observer data; Activity: H. Survey: Observer data; BirdTrack; Birdtrack. There was 3 Adults and 4 Juv's; Bird Track	D0062/008/01 , D1297/025/01	BAP, BDir1, Bern2, RD1-EN, RD1-VU	NA, PC
<i>Troglodytes troglodytes</i> (Wren / Dryw)	SJ2746	4 records, between 17/12/2008 and 27/03/2015	John Rushton; Jason Newton; Steven Davies	2; 1	Reported to recorder	Penycae, Tainant	Survey: Observer data; Activity: H. Survey: Observer data; Bird Track	D0062/008/01 , D1297/025/01	BAP, BDir1, Bern2, RD1-EN, RD1-VU	NA, PC
<i>Troglodytes troglodytes</i> (Wren / Dryw)	SJ2647	7 records, between 16/04/2007 and 06/04/2019	Jason Newton; Neil Sumner; Steven Davies; Mr Steven Davies	1	Reported to recorder	Penycae, Cae Llwyd Reservoir	Activity: S. Survey: Observer data; Birdtrack; BirdTrack; Bird Track	D0062/008/01 , D1297/025/01 , D1297/026/01	BAP, BDir1, Bern2, RD1-EN, RD1-VU	NA, PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Troglodytes troglodytes</i> (Wren / Dryw)	SJ2846	04/07/2009	Jason Newton	1	Reported to recorder	Rhosllanerchrugog, W	Activity: S. Survey: Observer data	D0062/008/01	BAP, BDir1, Bern2, RD1-EN, RD1-VU	NA
<i>Troglodytes troglodytes</i> (Wren / Dryw)	SJ2747	8 records, between 11/07/2009 and 06/04/2019	Jason Newton; Steven Davies; Paul E Miller; Mr Steven Davies	2; 1	Reported to recorder	Penycae, Bryn Goleu	Ty-Mawr Reservoir. Activity: S. Survey: Observer data; BirdTrack; Bird Track; Activity: S	D0062/008/01 , D1297/025/01 , D1297/026/01	BAP, BDir1, Bern2, RD1-EN, RD1-VU	NA, PC
<i>Troglodytes troglodytes</i> (Wren / Dryw)	SJ2646	08/04/2015	John Rushton	1		Penycae, NW	Bird Track. Activity: S	D1297/025/01	BAP, BDir1, Bern2, RD1-EN, RD1-VU	PC
<i>Turdus iliacus</i> (Redwing / Coch Dan Adain)	SJ2747	8 records, between 01/11/2014 and 30/03/2018	Mr P E Miller; Steven Davies; Neil Hughes; Trevor B Taylor	c75; 15+; 20+; 4		Mawr Reservoir, Bronwylfa	BirdTrack; Bird Track	D1297/021/01 , D1297/025/01	BDir2.2, LBAP-C, RD1-CR, UKBR, WBA, WCA1.1	PC
<i>Turdus iliacus</i> (Redwing / Coch Dan Adain)	SJ2745	37 records, between 08/10/2005 and 08/10/2018	JA Jackson	1; 2; 5; 6; 7; 10; 14; 22; 55; 80; 100; 130; 150; 160; 260; 300; 350; 390; 550; 600; 650; 750; 800; 1000; 2500; 3420; 100+; 150 Adult; 20+; 200+; 250+; 3000+; 80+; 90+	Reported to recorder	Penycae	Heard at night, 1st of autumn. Survey: Observer data; Movin W, first of autumn. Survey: Observer data; Night passage, 1st record at site since above. Survey: Observer data; Moving W, first of autumn. Survey: Observer data; 1st of autumn, due W in slight fog. Survey: Observer data; Moving SW. Surv...	D0062/008/01	BDir2.2, LBAP-C, RD1-CR, UKBR, WBA, WCA1.1	NA
<i>Turdus iliacus</i> (Redwing / Coch Dan Adain)	SJ2746	3 records, between 17/12/2008 and 04/10/2019	John Rushton; J.A.Jackson	8; 4; ca 400	Reported to recorder	Penycae, Tainant	Survey: Observer data; First of autumn; Moving due S	D0062/008/01 , D0062/010/01	BDir2.2, LBAP-C, RD1-CR, UKBR, WBA, WCA1.1	NA
<i>Turdus iliacus</i> (Redwing / Coch Dan Adain)	SJ2645	3 records, between 09/10/2004 and 21/03/2013	JA Jackson; John Lawton Roberts	300; 465; 200+	Reported to recorder	Penycae, Trefechan	Gathered near reservoir. Survey: Observer data; Some SG and FF with. Survey: Observer data; Survey: Observer data	D0062/008/01	BDir2.2, LBAP-C, RD1-CR, UKBR, WBA, WCA1.1	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Turdus iliacus</i> (Redwing / Coch Dan Adain)	SJ2647	5 records, between 03/10/2007 and 15/10/2016	JA Jackson; Steven Davies	140+; 5+; 20+	Reported to recorder	Penycae, Cae Llwyd Reservoir	Moving S. Survey: Observer data; BirdTrack; Bird Track	D0062/008/01 , D1297/025/01	BDir2.2, LBAP-C, RD1-CR, UKBR, WBA, WCA1.1	NA, PC
<i>Turdus iliacus</i> (Redwing / Coch Dan Adain)	SJ2845	10 records, between 12/01/2008 and 13/01/2017	Peter Lawton	30+; 6; 1; 20; 7; 30; 48; 9; 40		Penycae, E	Birdtrack; BirdTrack; Bird Track	D1297/025/01	BDir2.2, LBAP-C, RD1-CR, UKBR, WBA, WCA1.1	PC
<i>Turdus philomelos</i> (Song Thrush / Bronfraith)	SJ2747	5 records, between 14/03/2015 and 09/04/2018	Mr P E Miller; Anne Brenchley; Steven Davies; Neil Hughes; Paul E Miller	2; 1		Mawr Reservoir, Bronwyl fa	Bird Track. Activity: S; Bird Track; BirdTrack. Activity: S; Activity: S	D1297/021/01 , D1297/025/01	BAP, BDir2.2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, LBAP-W, RD1- NT, S7, UKBR, WBA	PC
<i>Turdus philomelos</i> (Song Thrush / Bronfraith)	SJ2845	21 records, between 24/02/2007 and 23/03/2017	Anon; Peter Lawton	1; 2			Occurrence ID: NBN-GA000656- BGBW2009- 16441640- 106817479; Birdtrack; Birdtrack;; BirdTrack	D1852/002/01 , D1297/025/01	BAP, BDir2.2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, LBAP-W, RD1- NT, S7, UKBR, WBA	PC
<i>Turdus philomelos</i> (Song Thrush / Bronfraith)	SJ2645	12 records, between 04/05/2007 and 14/03/2016	John Rushton; Neil Hughes; Peter Lawton; Anne Brenchley	1; 2; 3	Reported to recorder	Penycae, Trefechan	Survey: Observer data; BirdTrack. Activity: S; BirdTrack; Bird Track	D0062/008/01 , D1297/025/01	BAP, BDir2.2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, LBAP-W, RD1- NT, S7, UKBR, WBA	NA, PC
<i>Turdus philomelos</i> (Song Thrush / Bronfraith)	SJ2745	5 records, between 02/03/2013 and 07/10/2016	JA Jackson; Steven Davies; John Rushton	3; 20+; 3+; 1	Reported to recorder	Penycae	On trees - migrants?. Survey: Observer data; Flock, mixed, on ground and trees (see below - off to W). Survey: Observer data; Again, high in trees. Migrants?. Survey: Observer data; BirdTrack; Bird Track. Activity: S	D0062/008/01 , D1297/025/01	BAP, BDir2.2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, LBAP-W, RD1- NT, S7, UKBR, WBA	NA, PC
<i>Turdus philomelos</i> (Song Thrush / Bronfraith)	SJ2646	2 records, between 10/04/2014 and 16/05/2014	John Rushton	1		Penycae, NW	BirdTrack	D1297/025/01	BAP, BDir2.2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, LBAP-W, RD1- NT, S7, UKBR, WBA	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Turdus philomelos</i> (Song Thrush / Bronfraith)	SJ2746	2 records, between 21/05/2014 and 27/03/2015	John Rushton	1; 2		Penycae, Tainant	BirdTrack; Bird Track	D1297/025/01	BAP, BDir2.2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, LBAP-W, RD1-NT, S7, UKBR, WBA	PC
<i>Turdus philomelos</i> (Song Thrush / Bronfraith)	SJ2647	06/04/2019	Mr Steven Davies	1		Cae-llwyd Reservoir		D1297/026/01	BAP, BDir2.2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, LBAP-W, RD1-NT, S7, UKBR, WBA	PC
<i>Turdus pilaris</i> (Fieldfare / Socan Eira)	SJ2747	5 records, between 01/11/2014 and 22/03/2018	Mr P E Miller; Steven Davies; Neil Hughes; Trevor B Taylor	c50; 4; 6+		Mawr Reservoir, Bronwylfa	BirdTrack	D1297/021/01 , D1297/025/01	BDir2.2, LBAP-C, RD1-PX, UKBR, WBA, WCA1.1	PC
<i>Turdus pilaris</i> (Fieldfare / Socan Eira)	SJ2645	4 records, between 10/10/2004 and 01/04/2014	John Lawton Roberts; John Rushton	1; 29; 5	Reported to recorder	Penycae, Trefechan	Survey: Observer data; BirdTrack	D0062/008/01 , D1297/025/01	BDir2.2, LBAP-C, RD1-PX, UKBR, WBA, WCA1.1	NA, PC
<i>Turdus pilaris</i> (Fieldfare / Socan Eira)	SJ2745	29 records, between 25/11/2005 and 10/11/2018	John Lawton Roberts; JA Jackson	3; 5; 10; 25; 30; 80; 180; 200; 245; 300; 350; 460; 550; 650; 1000; 1000+; 1000+; 1400+; 150 Adult; 200+; 2000+; 700+	Reported to recorder	Penycae	Late record. Survey: Observer data; 1st of autumn. Survey: Observer data; 1st of autumn, 5 moving S. Survey: Observer data; Moving W, first of autumn. Survey: Observer data; With the above. 1st of autumn. Survey: Observer data; Moving S, first of autumn. Survey: Observer data; Moving SSW. Survey:...	D0062/008/01	BDir2.2, LBAP-C, RD1-PX, UKBR, WBA, WCA1.1	NA
<i>Turdus pilaris</i> (Fieldfare / Socan Eira)	SJ2746	4 records, between 17/12/2008 and 04/10/2019	JA Jackson; John Rushton; J.A.Jackson	6; 18; 2; ca 5	Reported to recorder	Penycae, Tainant	1st of autumn. Survey: Observer data; Survey: Observer data; Birdtrack. First 2 seen this Autumn; First of autumn	D0062/008/01 , D1297/025/01 , D0062/010/01	BDir2.2, LBAP-C, RD1-PX, UKBR, WBA, WCA1.1	NA, PC
<i>Turdus pilaris</i> (Fieldfare / Socan Eira)	SJ2647	3 records, between 27/10/2006 and 02/11/2015	JA Jackson; Steven Davies	25; 30+; 25+	Reported to recorder	Penycae, Cae Llwyd Reservoir	First of autumn. Survey: Observer data; Bird Track	D0062/008/01 , D1297/025/01	BDir2.2, LBAP-C, RD1-PX, UKBR, WBA, WCA1.1	NA, PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Turdus pilaris</i> (Fieldfare / Socan Eira)	SJ2646	2 records, between 24/10/2005 and 27/12/2005	JA Jackson	200; 300	Reported to recorder	Penycae, NW	1st of autumn, moving due S. Survey: Observer data; On farmland, feeding. Survey: Observer data	D0062/008/01	BDir2.2, LBAP-C, RD1-PX, UKBR, WBA, WCA1.1	NA
<i>Turdus pilaris</i> (Fieldfare / Socan Eira)	SJ2845	5 records, between 12/01/2008 and 13/01/2017	Peter Lawton	5; 50; 15; 1		Penycae, E	Birdtrack; Bird Track; BirdTrack	D1297/025/01	BDir2.2, LBAP-C, RD1-PX, UKBR, WBA, WCA1.1	PC
<i>Tyto alba</i> (Barn Owl / Tylluan Wen)	SJ24	3 records, between 27/09/2014 and 16/11/2014	Per John Lawton Roberts; Eryl Jones	1	Reported to recorder	-Withheld-	-Withheld-	D0062/008/01	Bern2, CITES-A, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, LBAP-T, LBAP-W, WBA, WCA1.1	NA
<i>Tyto alba</i> (Barn Owl / Tylluan Wen)	SJ24	6 records, between 23/09/2007 and 18/06/2011	JA Jackson; John Lawton Roberts	1; 1 Adult	Reported to recorder	-Withheld-	-Withheld-	D0062/008/01	Bern2, CITES-A, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, LBAP-T, LBAP-W, WBA, WCA1.1	NA
<i>Vanellus vanellus</i> (Lapwing / Cornchwiglen)	SJ2747	12 records, between 14/06/2005 and 06/04/2019	Anon; JA Jackson; Per John Lawton Roberts; Jason Newton; Anne Brenchley; Steven Davies; Mr Steven Davies	70+ (Estimate); 50; 100; 20+; 70+; 95; 1; 3+; 3	Reported to recorder	Penycae, Bryn Goleu	RSPB Survey; At breeding site. Survey: Observer data; Survey: Observer data; Flock by rushy pool off moor. Survey: Observer data; Post breeding flock on fields. Activity: H. Survey: Observer data; Bird Track. Activity: X; Bird Track; BirdTrack	D1949/001/01 , D0062/008/01 , D1297/025/01 , D1297/026/01	BAP, BDir2.2, Bonn2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, RD1-EN, RD1-VU, S7, UKBR, WBR	NA, PC
<i>Vanellus vanellus</i> (Lapwing / Cornchwiglen)	SJ2745	2 records, between 03/01/2006 and 31/07/2008	JA Jackson	110; 300	Reported to recorder	Penycae	Flew S. Survey: Observer data; Moved over reservoirs at dusk on three successive days to given date. Survey: Observer data	D0062/008/01	BAP, BDir2.2, Bonn2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, RD1-EN, RD1-VU, S7, UKBR, WBR	NA
<i>Vanellus vanellus</i> (Lapwing / Cornchwiglen)	SJ2646	2 records, both on 23/05/2004	Norman Hallas	1 Female; 1 Male	Reported to recorder	Penycae, NW	Survey: Observer data	D0062/008/01	BAP, BDir2.2, Bonn2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, RD1-EN, RD1-VU, S7, UKBR, WBR	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Vanellus vanellus</i> (Lapwing / Cornchwiglen)	SJ2746	6 records, between 24/04/2010 and 08/04/2015	John Lawton Roberts; John Rushton; Steven Davies	2 Female; 2 Male; 7; 5; 4; 6	Reported to recorder	Penycae, Tainant	2+ breeding pairs on pasture. Survey: Observer data; BirdTrack; BirdTrack. Activity: D; Bird Track. Activity: P; Bird Track	D0062/008/01 , D1297/025/01	BAP, BDir2.2, Bonn2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, RD1-EN, RD1-VU, S7, UKBR, WBR	NA, PC
<i>Vanellus vanellus</i> (Lapwing / Cornchwiglen)	SJ2647	3 records, between 25/03/2016 and 07/04/2019	Steven Davies; Mr James Hughes	1; 2		Penycae, Cae Llwyd Reservoir	BirdTrack; BirdTrack. Activity: D	D1297/025/01 , D1297/026/01	BAP, BDir2.2, Bonn2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, RD1-EN, RD1-VU, S7, UKBR, WBR	PC
<i>Vanellus vanellus</i> (Lapwing / Cornchwiglen)	SJ2845	30/04/2008	Peter Lawton			Penycae, E	Birdtrack	D1297/025/01	BAP, BDir2.2, Bonn2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, RD1-EN, RD1-VU, S7, UKBR, WBR	PC
<i>Vipera berus</i> (Adder / Gwiber)	SJ262467 (Selected from Interactive Map)	03/05/2020	Kim Norman	1 Sub-adult		Newtown Forest	Small adder against stone wall	D1117/001/01	BAP, Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, LBAP-T, S7, WCA5	PC
<i>Zootoca vivipara</i> (Common Lizard / Madfall)	SJ274454	2 records, between 28/07/2017 and 02/08/2017	J.A.Jackson			Penycae Reservoir Cottage	2 sightings of Jackdaws killing common lizard by repeated pecking	D0967/014/01	BAP, Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, LBAP-T, S7, WCA5	PC

Category 2 Species										
Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Accipiter nisus</i> (Sparrowhawk / Gwalch Glas)	SJ2845	3 records, between 24/01/2009 and 07/04/2013	Anon; Peter Lawton	1			Occurrence ID: NBN-GA000656- BGBW2009- 16441888- 106817480; BirdTrack; Birdtrack. Feeding on House Sparrow	D1852/002/01 , D1297/025/01	Bonn2, CITES-A, LBAP-C, RD1-NT	PC
<i>Accipiter nisus</i> (Sparrowhawk / Gwalch Glas)	SJ2745	4 records, between 01/01/2006 and 13/11/2019	JA Jackson; John Rushton; J.A.Jackson	1; 1 female	Reported to recorder	Penycae	1 flew at Cormorant over reservoir, making it croak in alarm. Survey: Observer data; Flying in darkness, ca 18/00h, attacked Blackbird on road vere. Survey: Observer data; Survey: Observer data; Took WP and carried ca 40m out of sight	D0062/008/01 , D0062/010/01	Bonn2, CITES-A, LBAP-C, RD1-NT	NA
<i>Accipiter nisus</i> (Sparrowhawk / Gwalch Glas)	SJ2746	17/12/2008	John Rushton	1	Reported to recorder	Penycae, Tainant	Survey: Observer data	D0062/008/01	Bonn2, CITES-A, LBAP-C, RD1-NT	NA
<i>Accipiter nisus</i> (Sparrowhawk / Gwalch Glas)	SJ2645	2 records, between 29/09/2011 and 03/09/2013	John Rushton	1	Reported to recorder	Penycae, Trefechan	Survey: Observer data; BirdTrack	D0062/008/01 , D1297/025/01	Bonn2, CITES-A, LBAP-C, RD1-NT	NA, PC
<i>Accipiter nisus</i> (Sparrowhawk / Gwalch Glas)	SJ2747	25/03/2016	Steven Davies	1		Penycae, Bryn Goleu	BirdTrack	D1297/025/01	Bonn2, CITES-A, LBAP-C, RD1-NT	PC
<i>Actitis hypoleucos</i> (Common Sandpiper / Pibydd y Dorlan)	SJ2747	5 records, between 09/04/2005 and 04/05/2016	Mr P E Miller; JA Jackson	3; 4; 2; 3 Adult	Reported to recorder	Mawr Reservoir, Bronwyl fa	1st of spring. Survey: Observer data; Survey: Observer data	D1297/021/01 , D0062/008/01	Bonn2, RD1-VU, UKBA, WBA	PC, NA
<i>Actitis hypoleucos</i> (Common Sandpiper / Pibydd y Dorlan)	SJ2745	20/04/2006	JA Jackson	1	Reported to recorder	Penycae	First of spring. Survey: Observer data	D0062/008/01	Bonn2, RD1-VU, UKBA, WBA	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Actitis hypoleucos</i> (Common Sandpiper / Pibydd y Dorlan)	SJ2647	30/04/2008	JA Jackson	1	Reported to recorder	Penycae, Cae Llwyd Reservoir	First of spring. Survey: Observer data	D0062/008/01	Bonn2, RD1-VU, UKBA, WBA	NA
<i>Actitis hypoleucos</i> (Common Sandpiper / Pibydd y Dorlan)	SJ2645	2 records, between 28/06/2012 and 26/06/2017	Neil Hughes; JA Jackson	1; 1 Adult	Reported to recorder	Penycae, Trefechan	Survey: Observer data	D0062/008/01	Bonn2, RD1-VU, UKBA, WBA	NA
<i>Aegithalos caudatus</i> (Long-tailed Tit / Titw Cynffon-Hir)	SJ2845	20 records, between 27/01/2007 and 23/03/2017	Anon; Peter Lawton	3; 2; 9; 7; 5; 4; 1			Occurrence ID: NBN-GA000656-BGBW2009-16441714-106734419; Birdtrack; Birdtrack;; BirdTrack; Bird Track	D1852/002/01 , D1297/025/01	WBA	PC
<i>Aegithalos caudatus</i> (Long-tailed Tit / Titw Cynffon-Hir)	SJ2745	6 records, between 04/10/2006 and 25/10/2016	Anon; JA Jackson; John Rushton; Steven Davies	11; 15; 60+; 2; 3	Reported to recorder		Occurrence ID: NBN-GA000656-BGBW2009-16440957-106734648; Is maximum on feeders to date given. Survey: Observer data; Survey: Observer data; Counted flying between gardens. Survey: Observer data; BirdTrack	D1852/002/01 , D0062/008/01 , D1297/025/01	WBA	PC, NA
<i>Aegithalos caudatus</i> (Long-tailed Tit / Titw Cynffon-Hir)	SJ2645	16 records, between 25/02/2005 and 21/03/2018	Neil Hughes; John Rushton; Steven Davies; Trevor B Taylor	2; 4; 7; 8; 7+; 6; 3	Reported to recorder	Penycae, Trefechan	Survey: Observer data; Part of a mixed flock of 20+. Survey: Observer data; BirdTrack; Bird Track; Bird Track. Activity: P	D0062/008/01 , D1297/025/01	WBA	NA, PC
<i>Aegithalos caudatus</i> (Long-tailed Tit / Titw Cynffon-Hir)	SJ2746	09/10/2009	John Rushton	5	Reported to recorder	Penycae, Tainant	Survey: Observer data	D0062/008/01	WBA	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Aegithalos caudatus</i> (Long-tailed Tit / Titw Cynffon-Hir)	SJ2647	5 records, between 16/04/2007 and 15/10/2016	Jason Newton; Neil Sumner; Steven Davies	3; 2; 8; 6+	Reported to recorder	Penycae, Cae Llwyd Reservoir	Activity: H. Survey: Observer data; Birdtrack; Bird Track; BirdTrack	D0062/008/01 , D1297/025/01	WBA	NA, PC
<i>Aegithalos caudatus</i> (Long-tailed Tit / Titw Cynffon-Hir)	SJ2747	5 records, between 02/11/2015 and 06/04/2019	Steven Davies; Mr Steven Davies	3; 1; 2		Penycae, Bryn Goleu	Bird Track; BirdTrack	D1297/025/01 , D1297/026/01	WBA	PC
<i>Anagallis arvensis</i> (Scarlet Pimpernel / Llysiau'r Cryman)	SJ2745	2 records, between 17/09/2011 and 04/06/2015	Stead.M.O.; Shanklin, J.			Penycae		D1169/004/02	GBNNSIP, RD2-NS	NA
<i>Anagallis arvensis</i> (Scarlet Pimpernel / Llysiau'r Cryman)	SJ2746	30/07/2015	Jonathan Shanklin			Tainant		D1169/004/02	GBNNSIP, RD2-NS	NA
<i>Anagallis arvensis</i> (Scarlet Pimpernel / Llysiau'r Cryman)	SJ2845	02/09/2014	Stead, M.O.			Stryt-issa		D1169/004/02	GBNNSIP, RD2-NS	NA
<i>Anas crecca</i> (Teal / Corhwyaden)	SJ2647	4 records, between 01/11/2014 and 20/10/2016	JA Jackson; Steven Davies	16; 2; 4	Reported to recorder	Penycae, Cae Llwyd Reservoir	On reservoir nr mountain edge. Survey: Observer data; BirdTrack; Bird Track	D0062/008/01 , D1297/025/01	BDir2.1, Bonn2, CITES-C, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, UKBA, WBA	NA, PC
<i>Anas crecca</i> (Teal / Corhwyaden)	SJ2747	15/10/2016	Steven Davies	8		Penycae, Bryn Goleu	BirdTrack	D1297/025/01	BDir2.1, Bonn2, CITES-C, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, UKBA, WBA	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Anas platyrhynchos</i> (Mallard / Hwyaeden Wylt)	SJ2645	20 records, between 25/01/2006 and 21/03/2018	Mr P Lawton; John Rushton; Steven Davies; Anne Brechley; Peter Lawton; Trevor B Taylor	13; 4; 15; 16; 46; 58; 3 Female; 4 Male; 50+ Male; 7 Female; 5 Male; 2 Male; 18; 2; 8; 7; 3; 1	Reported to recorder	Penycae, Newtown Forest	Survey: Observer data; Includes a large number of young. Survey: Observer data; Mixed M/F. Survey: Observer data; Activity: H. Survey: Observer data; BirdTrack; Bird Track	D1297/020/01 , D0062/008/01 , D1297/025/01	BDir2.1, Bonn2, LBAP-C, LBAP-G, RD1-NT, UKBA, WBA	PC, NA
<i>Anas platyrhynchos</i> (Mallard / Hwyaeden Wylt)	SJ2747	10 records, between 04/07/2009 and 06/04/2019	Jason Newton; Steven Davies; Anne Brechley; Mr Steven Davies	18; 2; 3; 5; 8; 9; 1; 6	Reported to recorder	Penycae, Bryn Goleu	Survey: Observer data; Birdtrack. ponds south of reservoir; Bird Track; BirdTrack	D0062/008/01 , D1297/025/01 , D1297/026/01	BDir2.1, Bonn2, LBAP-C, LBAP-G, RD1-NT, UKBA, WBA	NA, PC
<i>Anas platyrhynchos</i> (Mallard / Hwyaeden Wylt)	SJ2647	16 records, between 16/04/2007 and 06/04/2019	Jason Newton; John Rushton; Neil Sumner; Steven Davies; Mr Steven Davies	1 Female; 1 Juvenile; 11 Female; 28 Male; 2; 27; 13; 18; 5; 4; 3; 1	Reported to recorder	Penycae, Cae Llwyd Reservoir	Survey: Observer data; 1 tiny chick. Activity: FL. Survey: Observer data; Birdtrack; BirdTrack; Bird Track; Activity: FL	D0062/008/01 , D1297/025/01 , D1297/026/01	BDir2.1, Bonn2, LBAP-C, LBAP-G, RD1-NT, UKBA, WBA	NA, PC
<i>Anas platyrhynchos</i> (Mallard / Hwyaeden Wylt)	SJ2745	3 records, between 14/03/2015 and 24/05/2016	Steven Davies; John Rushton	3; 1; 2		Penycae	Bird Track; BirdTrack	D1297/025/01	BDir2.1, Bonn2, LBAP-C, LBAP-G, RD1-NT, UKBA, WBA	PC
<i>Anas platyrhynchos</i> (Mallard / Hwyaeden Wylt)	SJ2646	10/04/2014	John Rushton	1		Penycae, NW	BirdTrack	D1297/025/01	BDir2.1, Bonn2, LBAP-C, LBAP-G, RD1-NT, UKBA, WBA	PC
<i>Anas platyrhynchos</i> (Mallard / Hwyaeden Wylt)	SJ2746	2 records, between 10/04/2014 and 14/03/2015	John Rushton; Steven Davies	2; 10		Penycae, Tainant	BirdTrack; Bird Track	D1297/025/01	BDir2.1, Bonn2, LBAP-C, LBAP-G, RD1-NT, UKBA, WBA	PC
<i>Anthus pratensis</i> (Meadow Pipit / Corhedydd y Waun)	SJ2645	4 records, between 28/03/2011 and 21/03/2018	Neil Hughes; JA Jackson; John Rushton; Trevor B Taylor	4; 100 Adult; 2	Reported to recorder	Penycae, Trefechan	Survey: Observer data; Moving NNE. Survey: Observer data; BirdTrack	D0062/008/01 , D1297/025/01	Bern2, LBAP-C, UKBA, WBA	NA, PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Anthus pratensis</i> (Meadow Pipit / Corhedydd y Waun)	SJ2647	9 records, between 10/04/2006 and 06/04/2019	John Lawton Roberts; Neil Sumner; Steven Davies; Mr Steven Davies	14; 60; 1; 20+; 2; 3; c55	Reported to recorder	Penycae, Cae Llwyd Reservoir	On field off mountain. Survey: Observer data; Birdtrack; Birdtrack. very common. Feeding on sheep pasture then flying back to nest habitat on moor. Activity: FF; BirdTrack; Bird Track	D0062/008/01 , D1297/025/01 , D1297/026/01	Bern2, LBAP-C, UKBA, WBA	NA, PC
<i>Anthus pratensis</i> (Meadow Pipit / Corhedydd y Waun)	SJ2745	2 records, between 27/03/2008 and 28/03/2017	JA Jackson	200; 100+	Reported to recorder	Penycae	flying towards RM, possibly returning after cold spell. Survey: Observer data; From moor onto fields below. Survey: Observer data	D0062/008/01	Bern2, LBAP-C, UKBA, WBA	NA
<i>Anthus pratensis</i> (Meadow Pipit / Corhedydd y Waun)	SJ2646	4 records, between 11/07/2009 and 27/03/2015	Jason Newton; Peter Lawton; John Rushton	1; 4	Reported to recorder	Penycae, NW	On moorland edge. Activity: A. Survey: Observer data; BirdTrack; Bird Track	D0062/008/01 , D1297/025/01	Bern2, LBAP-C, UKBA, WBA	NA, PC
<i>Anthus pratensis</i> (Meadow Pipit / Corhedydd y Waun)	SJ2747	10 records, between 22/04/2011 and 06/04/2019	John Lawton Roberts; JA Jackson; Steven Davies; Anne Brenchley; Neil Hughes; Mr Steven Davies	30 Adult; 55 Adult; 7; 10; 5; 30; 12; 3; 10+; c6	Reported to recorder	Penycae, Bryn Goleu	Survey: Observer data; Field off moor. Survey: Observer data; BirdTrack; Bird Track	D0062/008/01 , D1297/025/01 , D1297/026/01	Bern2, LBAP-C, UKBA, WBA	NA, PC
<i>Apus apus</i> (Swift / Gwennol Ddu)	SJ2747	04/05/2016	Mr P E Miller	13		Mawr Reservoir, Bronwyl fa		D1297/021/01	RD1-EN, UKBA, WBA	PC
<i>Apus apus</i> (Swift / Gwennol Ddu)	SJ2745	15 records, between 02/05/2006 and 28/08/2017	JA Jackson	1; 2; 3; 1 Adult; 1 Fullgrown; 9	Reported to recorder	Penycae	1st of spring. Survey: Observer data; first of spring, rather late. Survey: Observer data; First of year. Survey: Observer data; First spring record. Survey: Observer data; High overhead, due S. Survey: Observer data; High, moving due S. Survey: Observer data; Last of year. Survey: Observer data;...	D0062/008/01	RD1-EN, UKBA, WBA	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Apus apus</i> (Swift / Gwennol Ddu)	SJ2645	2 records, between 24/04/2004 and 14/05/2018	JA Jackson; John Lawton Roberts	3	Reported to recorder	Penycae, Trefechan	1st seen at breeding colony site, despite daily watches. Survey: Observer data; Survey: Observer data	D0062/008/01	RD1-EN, UKBA, WBA	NA
<i>Apus apus</i> (Swift / Gwennol Ddu)	SJ2647	25/06/2012	Neil Sumner	6		Penycae, Cae Llwyd Reservoir	BirdTrack. Activity: F	D1297/025/01	RD1-EN, UKBA, WBA	PC
<i>Apus apus</i> (Swift / Gwennol Ddu)	SJ2845	8 records, between 27/04/2008 and 09/05/2016	Teresa Wright; Peter Lawton	2; 4; 3		Penycae, E	Birdtrack; BirdTrack; Bird Track	D1297/025/01	RD1-EN, UKBA, WBA	PC
<i>Ardea cinerea</i> (Grey Heron / Crëyr Glas)	SJ2745	24/05/2016	John Rushton	1		Penycae	BirdTrack	D1297/025/01	RD1-NT	PC
<i>Ardea cinerea</i> (Grey Heron / Crëyr Glas)	SJ2747	4 records, between 14/03/2015 and 25/08/2018	Steven Davies	1; 2		Penycae, Bryn Goleu	Bird Track; BirdTrack	D1297/025/01	RD1-NT	PC
<i>Ardea cinerea</i> (Grey Heron / Crëyr Glas)	SJ2647	02/11/2015	Steven Davies	1		Penycae, Cae Llwyd Reservoir	Bird track. Pant-glas Reservoir	D1297/025/01	RD1-NT	PC
<i>Ardea cinerea</i> (Grey Heron / Crëyr Glas)	SJ2645	06/11/2012	John Rushton	1		Penycae, Trefechan	BirdTrack	D1297/025/01	RD1-NT	PC
<i>Aythya fuligula</i> (Tufted Duck / Hwyaeden Gopog)	SJ2747	3 records, between 01/11/2014 and 12/04/2016	Mr P E Miller; Steven Davies	2; 1		Mawr Reservoir, Bronwylfa	BirdTrack; Bird Track	D1297/021/01 , D1297/025/01	BDir2.1, Bonn2, LBAP-C, WBA	PC
<i>Aythya fuligula</i> (Tufted Duck / Hwyaeden Gopog)	SJ2647	02/11/2015	Steven Davies	2		Penycae, Cae Llwyd Reservoir	Bird Track	D1297/025/01	BDir2.1, Bonn2, LBAP-C, WBA	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Bromus hordeaceus</i> (Soft-brome / Pawrwellt Cyffredin)	SJ2645	06/06/2015	Stead.M.O.			Penycae		D1169/004/02	RD2-NS	NA
<i>Bromus hordeaceus</i> (Soft-brome / Pawrwellt Cyffredin)	SJ2745	04/06/2015	Stead.M.O.			Penycae		D1169/004/02	RD2-NS	NA
<i>Bucephala clangula</i> (Goldeneye / Hwyaaden Lygad-Aur)	SJ2745	22/01/2019	J.A.Jackson	1 male		Penycae	On reservoir	D0062/010/01	BDir2.2, Bonn2, LBAP-C, RD1-VU, UKBA, WCA1.2	NA
<i>Buxus sempervirens</i> (Box / Pren Bocs)	SJ2745	17/09/2011	Shanklin, J.			Penycae	Planted in churchyard	D1169/004/02	LBAP-C, RD1-DD, RD2-NR	NA
<i>Calidris alpina</i> (Dunlin / Pibydd y Mawn)	SJ24	2 records, between 14/06/2007 and 25/04/2016	Mr P E Miller; JA Jackson	1; 4	Reported to recorder	-Withheld-	-Withheld-	D1297/021/01 , D0062/008/01	BDir1, Bern2, Bonn2, LBAP-C, LBAP-G, RD1-EN, RD1-VU, UKBA, WBR	PC, NA
<i>Calystegia sepium</i> (Hedge Bindweed / Taglys y Perthi)	SJ2647	17/09/2011	Shanklin, J.			Tainant		D1169/004/02	RD2-NS	NA
<i>Chloris chloris</i> (Greenfinch / Llinos Werdd)	SJ2845	23 records, between 01/01/2007 and 26/01/2014	Anon; Peter Lawton	4; 3; 2; 5; 1			Occurrence ID: NBN-GA000656-BGBW2009-16441829-105771241; Birdtrack; Birdtrack;; BirdTrack	D1852/002/01 , D1297/025/01	Bern2, LBAP-C, RD1-EN	PC
<i>Chloris chloris</i> (Greenfinch / Llinos Werdd)	SJ2745	08/03/2014	JA Jackson	1 Female	Reported to recorder	Penycae	Carrying nest material. Activity: B. Survey: Observer data	D0062/008/01	Bern2, LBAP-C, RD1-EN	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Chloris chloris</i> (Greenfinch / Llinos Werdd)	SJ2747	7 records, between 04/07/2009 and 06/04/2019	Jason Newton; Steven Davies; Anne Brenchley; Paul E Miller; Mr Steven Davies	1; 3; 4; 2	Reported to recorder	Penycae, Bryn Goleu	Bryn Golem. Activity: H. Survey: Observer data; BirdTrack; Bird Track. Activity: S; Activity: S	D0062/008/01 , D1297/025/01 , D1297/026/01	Bern2, LBAP-C, RD1-EN	NA, PC
<i>Chloris chloris</i> (Greenfinch / Llinos Werdd)	SJ2647	25/06/2012	Neil Sumner			Penycae, Cae Llwyd Reservoir	BirdTrack. Activity: H	D1297/025/01	Bern2, LBAP-C, RD1-EN	PC
<i>Chloris chloris</i> (Greenfinch / Llinos Werdd)	SJ2645	4 records, between 26/06/2013 and 21/03/2018	John Rushton; Peter Lawton; Trevor B Taylor	2; 1		Penycae, Bryn Trefechan	BirdTrack	D1297/025/01	Bern2, LBAP-C, RD1-EN	PC
<i>Corvus frugilegus</i> (Rook / Ydfran)	SJ2846	04/07/2009	Jason Newton	2	Reported to recorder	Rhosllanerchrugog, W	Activity: H. Survey: Observer data	D0062/008/01	BDir2.2, RD1-NT	NA
<i>Corvus frugilegus</i> (Rook / Ydfran)	SJ2747	14/04/2017	Steven Davies	1		Penycae, Bryn Goleu	BirdTrack	D1297/025/01	BDir2.2, RD1-NT	PC
<i>Corvus frugilegus</i> (Rook / Ydfran)	SJ2647	3 records, between 16/04/2007 and 02/03/2013	Neil Sumner; Steven Davies	2		Penycae, Cae Llwyd Reservoir	Birdtrack; BirdTrack. Activity: F; BirdTrack	D1297/025/01	BDir2.2, RD1-NT	PC
<i>Corvus frugilegus</i> (Rook / Ydfran)	SJ2845	5 records, between 06/01/2007 and 07/01/2009	Peter Lawton	30; 10; 20; 6		Penycae, E	Birdtrack	D1297/025/01	BDir2.2, RD1-NT	PC
<i>Curruca communis</i> (Whitethroat / Llwydfron)	SJ2647	25/06/2012	Neil Sumner	1		Penycae, Cae Llwyd Reservoir	BirdTrack. Activity: S	D1297/025/01	LBAP-C, WBA	PC
<i>Cygnus olor</i> (Mute Swan / Alarch Dof)	SJ2645	16 records, between 12/04/2010 and 11/03/2019	JA Jackson; Neil Hughes; John Rushton; Trevor B Taylor; John Lawton Roberts	2; 6; 1 Female; 1 Male; 1 Pair; 7; 1; 1 im mature	Reported to recorder	Penycae, Trefechan	Survey: Observer data; incl. a pair. Survey: Observer data; First in tetrad for many years. Survey: Observer data; BirdTrack; In old nest area of reservoir	D0062/008/01 , D1297/025/01 , D0062/010/01	BDir2.2, Bonn2, GBNNSIP, LBAP- C, UKBA, WBA	NA, PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Cygnus olor</i> (Mute Swan / Alarch Dof)	SJ2745	6 records, between 09/01/2014 and 02/12/2018	JA Jackson; John Rushton	1 Adult; 1 Female; 1 Male; 4 Juvenile; 2	Reported to recorder	Penycae	Family party, with above juvs. Survey: Observer data; Left reservoir after long spell there. Survey: Observer data; Survey: Observer data; Behaved as pair. Survey: Observer data; On reservoir. Survey: Observer data; BirdTrack	D0062/008/01 , D1297/025/01	BDir2.2, Bonn2, GBNNSIP, LBAP- C, UKBA, WBA	NA, PC
<i>Delichon urbicum</i> (House Martin / Gwennol y Bondo)	SJ2745	11 records, between 17/09/2006 and 12/04/2019	JA Jackson; J.A.Jackson	1; 3; 8; 30; 40; 100; 500; 150+; 60+; 75+; 2	Reported to recorder	Penycae	1st in upland area of year. Survey: Observer data; Dived into Holly as HY approached. Survey: Observer data; First seen at breeding colony. Survey: Observer data; Moving S, small parties, nos approx. Survey: Observer data; moving NW. Survey: Observer data; With SLs, as above. Survey: Observer data;	D0062/008/01 , D0062/010/01	Bern2, LBAP-C, RD1-VU, UKBA, WBA	NA
<i>Delichon urbicum</i> (House Martin / Gwennol y Bondo)	SJ2747	3 records, between 01/05/2005 and 13/07/2018	Kevin J Smith; JA Jackson; Steven Davies	35+; 10	Reported to recorder	Penycae, Bryn Goleu	Survey: Observer data; ...the two species. Survey: Observer data; BirdTrack	D0062/008/01 , D1297/025/01	Bern2, LBAP-C, RD1-VU, UKBA, WBA	NA, PC
<i>Delichon urbicum</i> (House Martin / Gwennol y Bondo)	SJ2647	25/06/2012	Neil Sumner	2		Penycae, Cae Llwyd Reservoir	BirdTrack. Activity: F	D1297/025/01	Bern2, LBAP-C, RD1-VU, UKBA, WBA	PC
<i>Delichon urbicum</i> (House Martin / Gwennol y Bondo)	SJ2845	21/04/2007	Peter Lawton	1		Penycae, E	Birdtrack	D1297/025/01	Bern2, LBAP-C, RD1-VU, UKBA, WBA	PC
<i>Delichon urbicum</i> (House Martin / Gwennol y Bondo)	SJ2645	20/05/2014	Peter Lawton	5		Penycae, Trefechan	BirdTrack	D1297/025/01	Bern2, LBAP-C, RD1-VU, UKBA, WBA	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Deschampsia cespitosa</i> (Tufted Hair-grass / Brigwellt Garw)	SJ2645	06/06/2015	Stead.M.O.			Penycae		D1169/004/02	RD1-DD	NA
<i>Deschampsia cespitosa</i> (Tufted Hair-grass / Brigwellt Garw)	SJ2646	2 records, between 17/09/2011 and 28/09/2014	Shanklin, J.; Stead, M.O.			Tainant		D1169/004/02	RD1-DD	NA
<i>Deschampsia cespitosa</i> (Tufted Hair-grass / Brigwellt Garw)	SJ2745	2 records, between 17/09/2011 and 04/06/2015	Stead.M.O.; Shanklin, J.			Penycae		D1169/004/02	RD1-DD	NA
<i>Eleocharis palustris</i> (Common Spike-rush / Ysbigrwyne)	SJ2745	17/09/2011	Shanklin, J.			Penycae		D1169/004/02	RD1-DD	NA
<i>Eleocharis palustris</i> (Common Spike-rush / Ysbigrwyne)	SJ27184540	04/06/2015	Stead.M.O.			Penycae	North side of Bottom Reservoir Penycae	D1169/004/02	RD1-DD	NA
<i>Fulica atra</i> (Coot / Cwtiar)	SJ2745	2 records, between 27/03/2004 and 30/03/2016	JA Jackson; John Lawton Roberts	1; 4	Reported to recorder	Penycae	1st of year. Survey: Observer data; Survey: Observer data	D0062/008/01	BDir2.1, RD1-NT	NA
<i>Fulica atra</i> (Coot / Cwtiar)	SJ2647	3 records, between 11/03/2005 and 14/04/2017	John Lawton Roberts; Neil Sumner; Steven Davies	2; 1	Reported to recorder	Penycae, Cae Llwyd Reservoir	Survey: Observer data; Birdtrack; BirdTrack	D0062/008/01 , D1297/025/01	BDir2.1, RD1-NT	NA, PC
<i>Fulica atra</i> (Coot / Cwtiar)	SJ2645	5 records, between 09/04/2004 and 02/04/2005	John Lawton Roberts	3; 8; 1 Female; 1 Male; 8 Juvenile	Reported to recorder	Penycae, Trefechan	Survey: Observer data	D0062/008/01	BDir2.1, RD1-NT	NA
<i>Fulica atra</i> (Coot / Cwtiar)	SJ2747	6 records, between 02/11/2015 and 06/04/2019	Steven Davies; Mr Steven Davies	1; 2; 4		Penycae, Bryn Goleu	Bird Track; BirdTrack; Ponds SW of reservoir. Activity: FL	D1297/025/01 , D1297/026/01	BDir2.1, RD1-NT	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Gallinula chloropus</i> (Moorhen / lar Ddwr)	SJ2745	7 records, between 14/03/2015 and 29/01/2018	JA Jackson; Steven Davies; John Rushton	1; 7	Reported to recorder	Penycae	First arrival on reservoir. Survey: Observer data; Just arrived. Survey: Observer data; on ground under bird feeders. Survey: Observer data; Survey: Observer data; 5 downy chicks on water with pair. Activity: NY. Survey: Observer data; Bird Track; BirdTrack	D0062/008/01 , D1297/025/01	BDir2.2, Bonn2, RD1-VU	NA, PC
<i>Gallinula chloropus</i> (Moorhen / lar Ddwr)	SJ2747	10 records, between 02/03/2013 and 06/04/2019	Steven Davies; Mr Steven Davies	2; 3; 4; 5; 1		Penycae, Bryn Goleu	Birdtrack. ponds south of reservoir; BirdTrack; Bird track. On ponds south of reservoir; Bird Track; Ponds SW of reservoir. Activity: FL	D1297/025/01 , D1297/026/01	BDir2.2, Bonn2, RD1-VU	PC
<i>Gallinula chloropus</i> (Moorhen / lar Ddwr)	SJ2647	2 records, between 01/11/2014 and 02/11/2015	Steven Davies	1		Penycae, Cae Llwyd Reservoir	BirdTrack; Bird Track	D1297/025/01	BDir2.2, Bonn2, RD1-VU	PC
<i>Gallinula chloropus</i> (Moorhen / lar Ddwr)	SJ2646	08/04/2015	John Rushton	2		Penycae, NW	Bird Track	D1297/025/01	BDir2.2, Bonn2, RD1-VU	PC
<i>Haematopus ostralegus</i> (Oystercatcher / Pioden Fôr)	SJ2747	18/04/2010	JA Jackson	1	Reported to recorder	Penycae, Bryn Goleu	Survey: Observer data	D0062/008/01	BDir2.2, LBAP-C, LBAP-G, UKBA, WBA	NA
<i>Heracleum sphondylium</i> (Hogweed / Pannas Gwylt)	SJ2645	06/06/2015	Stead.M.O.			Penycae		D1169/004/02	RD1-DD	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Heracleum sphondylium</i> (Hogweed / Pannas Gwylt)	SJ2646	28/09/2014	Stead, M.O.			Tainant		D1169/004/02	RD1-DD	NA
<i>Heracleum sphondylium</i> (Hogweed / Pannas Gwylt)	SJ2647	28/09/2014	Stead, M.O.			Tainant		D1169/004/02	RD1-DD	NA
<i>Heracleum sphondylium</i> (Hogweed / Pannas Gwylt)	SJ2745	2 records, between 17/09/2011 and 04/06/2015	Shanklin, J.; Stead, M.O.			Penycae		D1169/004/02	RD1-DD	NA
<i>Heracleum sphondylium</i> (Hogweed / Pannas Gwylt)	SJ2746	30/07/2011	Shanklin, J.			Tainant		D1169/004/02	RD1-DD	NA
<i>Heracleum sphondylium</i> (Hogweed / Pannas Gwylt)	SJ2845	02/09/2014	Stead, M.O.			Stryt-issa		D1169/004/02	RD1-DD	NA
<i>Hirundo rustica</i> (Swallow / Gwennol)	SJ2747	12 records, between 11/04/2004 and 25/08/2018	Mr P E Miller; JA Jackson; Jason Newton; John Lawton Roberts; Steven Davies; Paul E Miller	30; 25; 200; 1 Adult; 35+; 5 Juvenile; 7+; 1; 10; 2	Reported to recorder	Mawr Reservoir, Bronwylfa	First sizeable gathering of year. Survey: Observer data; First of spring. Survey: Observer data; Mixed gathering of Survey: Observer data; Ty-Mawr Reservoir. Activity: FL. Survey: Observer data; Survey: Observer data; BirdTrack	D1297/021/01 , D0062/008/01 , D1297/025/01	Bern2, LBAP-A, LBAP-C, LBAP-G, WBA	PC, NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Hirundo rustica</i> (Swallow / Gwennol)	SJ2745	22 records, between 07/04/2005 and 05/04/2019	JA Jackson; John Rushton; J.A.Jackson	1; 2; 4; 9; 15; 30; 75; 200; 250; 500; 900; 150+; 25+; 4 Adult; 40+; 75+; 6	Reported to recorder	Penycae	1st of year. Survey: Observer data; 1st seen at Penycae. Survey: Observer data; last of season. Survey: Observer data; Last sighting of year at site. Survey: Observer data; Next spring record/. Survey: Observer data; 1st of spring. Survey: Observer data; 1st of spring, moving N. Survey: Observer ...	D0062/008/01 , D0062/010/01	Bern2, LBAP-A, LBAP-C, LBAP-G, WBA	NA
<i>Hirundo rustica</i> (Swallow / Gwennol)	SJ2645	7 records, between 11/04/2004 and 18/04/2015	Neil Hughes; John Lawton Roberts; John Rushton; Peter Lawton	2; 9+; 5; 4; 1	Reported to recorder	Penycae, Trefechan	Survey: Observer data; BirdTrack; Bird Track	D0062/008/01 , D1297/025/01	Bern2, LBAP-A, LBAP-C, LBAP-G, WBA	NA, PC
<i>Hirundo rustica</i> (Swallow / Gwennol)	SJ2647	6 records, between 04/07/2009 and 25/08/2018	Jason Newton; Neil Sumner; Steven Davies; Trevor B Taylor	4; 1; 3; 10+	Reported to recorder	Penycae, Cae Llwyd Reservoir	Activity: H. Survey: Observer data; BirdTrack. Activity: F; BirdTrack	D0062/008/01 , D1297/025/01	Bern2, LBAP-A, LBAP-C, LBAP-G, WBA	NA, PC
<i>Hirundo rustica</i> (Swallow / Gwennol)	SJ2746	2 records, between 11/07/2009 and 21/05/2014	Jason Newton; John Rushton	1; 2	Reported to recorder	Penycae, Tainant	Activity: H. Survey: Observer data; BirdTrack	D0062/008/01 , D1297/025/01	Bern2, LBAP-A, LBAP-C, LBAP-G, WBA	NA, PC
<i>Hirundo rustica</i> (Swallow / Gwennol)	SJ2845	5 records, between 25/04/2007 and 16/06/2011	Peter Lawton	2; 3		Penycae, E	Birdtrack; Birdtrack;; BirdTrack	D1297/025/01	Bern2, LBAP-A, LBAP-C, LBAP-G, WBA	PC
<i>Hirundo rustica</i> (Swallow / Gwennol)	SJ2646	2 records, between 21/05/2014 and 08/04/2015	John Rushton	2		Penycae, NW	BirdTrack; Bird Track	D1297/025/01	Bern2, LBAP-A, LBAP-C, LBAP-G, WBA	PC
<i>Hirundo rustica</i> (Swallow / Gwennol)	SJ269473	29/09/2016	Martyn Harris	6	Field record	South of Cae- llwyd Reservoir, Penycae, Wrexham	Hunting for insects quite low over the field.	D0969/001/05	Bern2, LBAP-A, LBAP-C, LBAP-G, WBA	UA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Hypericum maculatum</i> (Imperforate St John's-wort / Eurinllys Mawr)	SJ2645	2 records, between 17/09/2011 and 06/06/2015	Stead.M.O.; Shanklin, J.			Penycae		D1169/004/02	RD1-DD	NA
<i>Hypericum maculatum</i> (Imperforate St John's-wort / Eurinllys Mawr)	SJ2745	04/06/2015	Stead.M.O.			Penycae		D1169/004/02	RD1-DD	NA
<i>Larus canus</i> (Common Gull / Gwylan y Gweunydd)	SJ2747	3 records, between 14/03/2015 and 15/10/2016	Steven Davies	15+; 7; 1		Penycae, Bryn Goleu	Bird Track; BirdTrack	D1297/025/01	BDir2.2, UKBA, WBR	PC
<i>Larus fuscus</i> (Lesser Black-backed Gull / Gwylan Gefnddu Leiaf)	SJ2747	5 records, between 02/03/2013 and 25/08/2018	Steven Davies	20; 3; 10+; 5		Penycae, Bryn Goleu	BirdTrack; Bird Track	D1297/025/01	BDir2.2, LBAP-C, LBAP-G, LBAP-S, RD1-DD, UKBA, WBA	PC
<i>Larus fuscus</i> (Lesser Black-backed Gull / Gwylan Gefnddu Leiaf)	SJ2647	14/04/2017	Steven Davies	1		Penycae, Cae Llwyd Reservoir	BirdTrack	D1297/025/01	BDir2.2, LBAP-C, LBAP-G, LBAP-S, RD1-DD, UKBA, WBA	PC
<i>Limnocyrtus minimus</i> (Jack Snipe / Gïach Bach)	SJ2647	03/12/2017	Per John Lawton Roberts	1	Reported to recorder	Penycae, Cae Llwyd Reservoir	1st of winter. Survey: Observer data	D0062/008/01	BDir2.1, Bonn2, LBAP-C, WBA	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Limnocyrtus minimus</i> (Jack Snipe / Giach Bach)	SJ2646	28/02/2011	John Lawton Roberts	1 Adult	Reported to recorder	Penycae, NW	Survey: Observer data	D0062/008/01	BDir2.1, Bonn2, LBAP-C, WBA	NA
<i>Mareca penelope</i> (Wigeon / Chwiwell)	SJ24	09/02/2015	Mr P Lawton	1		-Withheld-	-Withheld-	D1297/020/01	BDir2.1, Bonn2, CITES-C, GBNNSIP, LBAP- C, LBAP-G, RD1- NT, UKBA, WBA	PC
<i>Motacilla cinerea</i> (Grey Wagtail / Siglen Iwyd)	SJ2747	9 records, between 11/07/2009 and 28/08/2017	Mr P E Miller; Jason Newton; Steven Davies	4; 1; 2	Reported to recorder	Mawr Reservoir, Bronwyl fa	Breeding status - Visiting probable nest site; Ty-Mawr Reservoir. Activity: H. Survey: Observer data; BirdTrack	D1297/021/01 , D0062/008/01 , D1297/025/01	Bern2, LBAP-C, LBAP-T, RD1-NT, UKBR	PC, NA
<i>Motacilla cinerea</i> (Grey Wagtail / Siglen Iwyd)	SJ2645	5 records, between 12/05/2006 and 03/09/2013	John Rushton; Neil Hughes	1; 2	Reported to recorder	Penycae, Trefechan	Survey: Observer data; Feeding young in nest. Survey: Observer data; Activity: P. Survey: Observer data; Birdtrack. There was 2 adults and 1 Juv; BirdTrack	D0062/008/01 , D1297/025/01	Bern2, LBAP-C, LBAP-T, RD1-NT, UKBR	NA, PC
<i>Motacilla cinerea</i> (Grey Wagtail / Siglen Iwyd)	SJ2647	4 records, between 04/07/2009 and 02/11/2015	John Rushton; Jason Newton; Steven Davies	2; 1 Juvenile; 1	Reported to recorder	Penycae, Cae Llwyd Reservoir	Survey: Observer data; Activity: FL. Survey: Observer data; Activity: FF. Survey: Observer data; Bird Track	D0062/008/01 , D1297/025/01	Bern2, LBAP-C, LBAP-T, RD1-NT, UKBR	NA, PC
<i>Motacilla cinerea</i> (Grey Wagtail / Siglen Iwyd)	SJ2745	3 records, between 01/07/2013 and 24/05/2016	John Rushton	6; 2; 4		Penycae	Birdtrack. There was 2 adults and 4 Juv's; Bird Track. Activity: P; BirdTrack	D1297/025/01	Bern2, LBAP-C, LBAP-T, RD1-NT, UKBR	PC
<i>Motacilla cinerea</i> (Grey Wagtail / Siglen Iwyd)	SJ2845	2 records, between 22/10/2008 and 01/11/2008	Peter Lawton	1		Penycae, E	Birdtrack	D1297/025/01	Bern2, LBAP-C, LBAP-T, RD1-NT, UKBR	PC
<i>Motacilla cinerea</i> (Grey Wagtail / Siglen Iwyd)	SJ2646	10/04/2014	John Rushton	3		Penycae, NW	BirdTrack	D1297/025/01	Bern2, LBAP-C, LBAP-T, RD1-NT, UKBR	PC
<i>Motacilla cinerea</i> (Grey Wagtail / Siglen Iwyd)	SJ2746	2 records, between 10/04/2014 and 12/09/2019	John Rushton; J.A.Jackson	1; 22		Penycae, Tainant	BirdTrack; Strung- out flock ,moving due W	D1297/025/01 , D0062/010/01	Bern2, LBAP-C, LBAP-T, RD1-NT, UKBR	PC, NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Oenanthe oenanthe</i> (Wheatear / Tinwen y Garn)	SJ2645	26/06/2013	John Rushton	1		Penycae, Trefechan	BirdTrack	D1297/025/01	Bern2, LBAP-C, WBA	PC
<i>Oligotricha striata</i>	SJ263469	31/08/1975	Wallace, I.D.	Larva		Ruabon Mountain	museum specimens	D1081/001/03	RD2-NS	NA
<i>Periparus ater</i> (Coal Tit / Titw Penddu)	SJ2745	2 records, between 24/01/2009 and 01/07/2013	Anon; John Rushton	2			Occurrence ID: NBN-GA000656-BGBW2009-16440957-106179893; BirdTrack	D1852/002/01 , D1297/025/01	Bern2, LBAP-C, WBA	PC
<i>Periparus ater</i> (Coal Tit / Titw Penddu)	SJ2845	30 records, between 01/01/2007 and 19/12/2015	Anon; Peter Lawton	1; 2; 4; 3; 6			Occurrence ID: NBN-GA000656-BGBW2009-16441520-106179325; Birdtrack; Birdtrack;; BirdTrack; Bird Track	D1852/002/01 , D1297/025/01	Bern2, LBAP-C, WBA	PC
<i>Periparus ater</i> (Coal Tit / Titw Penddu)	SJ2645	18 records, between 25/01/2006 and 21/03/2018	Neil Hughes; John Rushton; Steven Davies; Peter Lawton; Anne Brechley; Trevor B Taylor	1; 2; 3; 10+; 7+; 8	Reported to recorder	Penycae, Trefechan	Survey: Observer data; Part of same flock. Survey: Observer data; BirdTrack; Bird Track	D0062/008/01 , D1297/025/01	Bern2, LBAP-C, WBA	NA, PC
<i>Periparus ater</i> (Coal Tit / Titw Penddu)	SJ2846	04/07/2009	Jason Newton	1	Reported to recorder	Rhosllanerchrugog, W	Activity: H. Survey: Observer data	D0062/008/01	Bern2, LBAP-C, WBA	NA
<i>Periparus ater</i> (Coal Tit / Titw Penddu)	SJ2747	25/03/2016	Steven Davies	1		Penycae, Bryn Goleu	BirdTrack	D1297/025/01	Bern2, LBAP-C, WBA	PC
<i>Periparus ater</i> (Coal Tit / Titw Penddu)	SJ2647	25/06/2012	Neil Sumner			Penycae, Cae Llwyd Reservoir	BirdTrack. Activity: S	D1297/025/01	Bern2, LBAP-C, WBA	PC
<i>Periparus ater</i> (Coal Tit / Titw Penddu)	SJ2746	08/10/2012	John Rushton	2		Penycae, Tainant	BirdTrack	D1297/025/01	Bern2, LBAP-C, WBA	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Phalacrocorax carbo</i> (Cormorant / Mulfran)	SJ2747	10 records, between 14/03/2015 and 09/04/2018	Mr P E Miller; Anne Brenchley; Steven Davies; Neil Hughes; Paul E Miller	2; 1; 3; 4		Mawr Reservoir, Bronwylfa	Bird Track; BirdTrack	D1297/021/01 , D1297/025/01	LBAP-C, LBAP-G, RD1-NT, WBA	PC
<i>Phalacrocorax carbo</i> (Cormorant / Mulfran)	SJ2745	09/04/2004	John Lawton Roberts	1	Reported to recorder	Penycae	Survey: Observer data	D0062/008/01	LBAP-C, LBAP-G, RD1-NT, WBA	NA
<i>Phoenicurus phoenicurus</i> (Redstart / Tingoch)	SJ2645	7 records, between 07/07/2006 and 20/05/2014	John Rushton; JA Jackson; Neil Hughes; Peter Lawton	1; 1 Female; 1 Male; 2	Reported to recorder	Penycae, Trefechan	Survey: Observer data; 1st of year. Survey: Observer data; Activity: S. Survey: Observer data; BirdTrack	D0062/008/01 , D1297/025/01	Bern2, LBAP-C, LBAP-G, LBAP-S, UKBA, WBA	NA, PC
<i>Phoenicurus phoenicurus</i> (Redstart / Tingoch)	SJ2747	2 records, both on 04/05/2006	Neil Hughes	1 Female; 2 Male	Reported to recorder	Denbighshire, Penycae, Bryn Goleu	Survey: Observer data; Males fighting. Survey: Observer data	D0062/008/01	Bern2, LBAP-C, LBAP-G, LBAP-S, UKBA, WBA	NA
<i>Phoenicurus phoenicurus</i> (Redstart / Tingoch)	SJ2745	3 records, between 01/07/2013 and 24/05/2016	John Rushton	4; 1		Penycae	Birdtrack. There was 2 adults and 2 juv's; Bird Track. Activity: H; BirdTrack	D1297/025/01	Bern2, LBAP-C, LBAP-G, LBAP-S, UKBA, WBA	PC
<i>Phoenicurus phoenicurus</i> (Redstart / Tingoch)	SJ2647	24/07/2018	Trevor B Taylor	2		Penycae, Cae Llwyd Reservoir		D1297/025/01	Bern2, LBAP-C, LBAP-G, LBAP-S, UKBA, WBA	PC
<i>Phoenicurus phoenicurus</i> (Redstart / Tingoch)	SJ2746	21/05/2014	John Rushton	1		Penycae, Tainant	BirdTrack	D1297/025/01	Bern2, LBAP-C, LBAP-G, LBAP-S, UKBA, WBA	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Phylloscopus trochilus</i> (Willow Warbler / Telor yr Helyg)	SJ2747	6 records, between 12/04/2016 and 09/04/2018	Mr P E Miller; Paul E Miller	2; 3		Mawr Reservoir, Bronwylfa	Activity: S	D1297/021/01 , D1297/025/01	LBAP-C, UKBA, WBR	PC
<i>Phylloscopus trochilus</i> (Willow Warbler / Telor yr Helyg)	SJ2645	11 records, between 09/06/2006 and 17/06/2014	John Rushton; Neil Hughes	1; 2; 4; 5; 3; 8	Reported to recorder	Penycae, Trefechan	Survey: Observer data; Activity: S; Survey: Observer data; BirdTrack	D0062/008/01 , D1297/025/01	LBAP-C, UKBA, WBR	NA, PC
<i>Phylloscopus trochilus</i> (Willow Warbler / Telor yr Helyg)	SJ2647	6 records, between 16/04/2007 and 07/04/2019	Jason Newton; Neil Sumner; Steven Davies; Trevor B Taylor; Mr James Hughes	1; 3; 10; 4	Reported to recorder	Penycae, Cae Llwyd Reservoir	Activity: S; Survey: Observer data; Birdtrack; BirdTrack. Activity: T; BirdTrack	D0062/008/01 , D1297/025/01 , D1297/026/01	LBAP-C, UKBA, WBR	NA, PC
<i>Phylloscopus trochilus</i> (Willow Warbler / Telor yr Helyg)	SJ2745	2 records, between 15/04/2015 and 24/05/2016	John Rushton	1		Penycae	Bird Track. Activity: H; BirdTrack	D1297/025/01	LBAP-C, UKBA, WBR	PC
<i>Phylloscopus trochilus</i> (Willow Warbler / Telor yr Helyg)	SJ2646	5 records, between 20/04/2011 and 21/05/2014	Peter Lawton; John Rushton	1; 2		Penycae, NW	BirdTrack	D1297/025/01	LBAP-C, UKBA, WBR	PC
<i>Picus viridis</i> (Green Woodpecker / Cnocell Werdd)	SJ2645	3 records, between 09/04/2004 and 19/04/2013	John Lawton Roberts; JA Jackson; John Rushton	1; 1+ Juvenile	Reported to recorder	Penycae, Trefechan	Survey: Observer data; nos = minimum. Survey: Observer data; BirdTrack	D0062/008/01 , D1297/025/01	Bern2, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, WBA	NA, PC
<i>Picus viridis</i> (Green Woodpecker / Cnocell Werdd)	SJ2647	09/10/2009	John Rushton	1	Reported to recorder	Penycae, Cae Llwyd Reservoir	Survey: Observer data	D0062/008/01	Bern2, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, WBA	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Podiceps cristatus</i> (Great Crested Grebe / Gwyach Fawr Gopog)	SJ2747	8 records, between 01/11/2014 and 06/04/2019	Mr P E Miller; Steven Davies; Neil Hughes; Mr Steven Davies	2; 1; 3		Mawr Reservoir, Bronwylfa	BirdTrack; Bird Track; Activity: FL; Breeding status: P	D1297/021/01 , D1297/025/01 , D1297/026/01	LBAP-C, RD1-VU	PC
<i>Polygala vulgaris</i> (Common Milkwort / Amlaethai Cyffredin)	SJ2745	04/06/2015	Stead.M.O.			Penycae		D1169/004/02	RD1-DD	NA
<i>Ranunculus acris</i> (Meadow Buttercup / Blodyn Ymenyn)	SJ2645	06/06/2015	Stead.M.O.			Penycae		D1169/004/02	RD1-DD	NA
<i>Ranunculus acris</i> (Meadow Buttercup / Blodyn Ymenyn)	SJ2646	2 records, between 28/09/2014 and 30/07/2015	Jonathan Shanklin; Stead, M.O.			Tainant		D1169/004/02	RD1-DD	NA
<i>Ranunculus acris</i> (Meadow Buttercup / Blodyn Ymenyn)	SJ2745	2 records, between 17/09/2011 and 04/06/2015	Shanklin, J.; Stead.M.O.			Penycae		D1169/004/02	RD1-DD	NA
<i>Ranunculus acris</i> (Meadow Buttercup / Blodyn Ymenyn)	SJ2647	28/09/2014	Stead, M.O.			Tainant		D1169/004/02	RD1-DD	NA
<i>Ranunculus flammula</i> (Lesser Spearwort / Llafnlys Bach)	SJ2645	06/06/2015	Stead.M.O.			Penycae		D1169/004/02	RD1-DD, RD2-NR, RD2-NS	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Ranunculus flammula</i> (Lesser Spearwort / Llafnlys Bach)	SJ2646	2 records, between 17/09/2011 and 28/09/2014	Stead, M.O.; Shanklin, J.			Tainant		D1169/004/02	RD1-DD, RD2-NR, RD2-NS	NA
<i>Ranunculus flammula</i> (Lesser Spearwort / Llafnlys Bach)	SJ2745	2 records, between 17/09/2011 and 04/06/2015	Stead.M.O.; Shanklin, J.			Penycae		D1169/004/02	RD1-DD, RD2-NR, RD2-NS	NA
<i>Regulus regulus</i> (Goldcrest / Dryw Eurban)	SJ2747	3 records, between 02/11/2015 and 23/03/2017	Mr P E Miller; Steven Davies; Neil Hughes	4; 3; 2		Mawr Reservoir, Bronwylfa	Bird Track; BirdTrack	D1297/021/01 , D1297/025/01	Bern2, LBAP-C, WBA	PC
<i>Regulus regulus</i> (Goldcrest / Dryw Eurban)	SJ2745	2 records, between 17/02/2006 and 10/12/2008	JA Jackson	1	Reported to recorder	Penycae	1st of winter under feeders. Survey: Observer data; On feeders and pre-this date. Survey: Observer data	D0062/008/01	Bern2, LBAP-C, WBA	NA
<i>Regulus regulus</i> (Goldcrest / Dryw Eurban)	SJ2645	16 records, between 08/04/2005 and 14/03/2016	John Rushton; Neil Hughes; Steven Davies; Anne Brenchley	2; 7; 10+; 4+; 1; 5; 3	Reported to recorder	Penycae, Trefechan	Survey: Observer data; Activity: S. Survey: Observer data; Activity: T. Survey: Observer data; BirdTrack; Bird Track	D0062/008/01 , D1297/025/01	Bern2, LBAP-C, WBA	NA, PC
<i>Regulus regulus</i> (Goldcrest / Dryw Eurban)	SJ2646	17/12/2008	John Rushton	3	Reported to recorder	Penycae, NW	Survey: Observer data	D0062/008/01	Bern2, LBAP-C, WBA	NA
<i>Rhinanthus minor</i> (Yellow-rattle / Cribell Felen)	SJ2745	04/06/2015	Stead.M.O.			Penycae		D1169/004/02	LBAP-A, RD1-DD	NA
<i>Riparia riparia</i> (Sand Martin / Gwennol y Glennydd)	SJ2647	16/04/2007	Neil Sumner			Penycae, Cae Llwyd Reservoir	Birdtrack	D1297/025/01	Bern2, LBAP-C, LBAP-D, LBAP-F, LBAP-G, WBA	PC
<i>Rumex acetosa</i> (Common Sorrel / Suran y Cwn)	SJ2645	06/06/2015	Stead.M.O.			Penycae		D1169/004/02	GBNNSIP, RD1-DD, RD2-NR	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Rumex acetosa</i> (Common Sorrel / Suran y Cwn)	SJ2646	28/09/2014	Stead, M.O.			Tainant		D1169/004/02	GBNNSIP, RD1-DD, RD2-NR	NA
<i>Rumex acetosa</i> (Common Sorrel / Suran y Cwn)	SJ2647	2 records, between 17/09/2011 and 28/09/2014	Stead, M.O.; Shanklin, J.			Tainant		D1169/004/02	GBNNSIP, RD1-DD, RD2-NR	NA
<i>Rumex acetosa</i> (Common Sorrel / Suran y Cwn)	SJ2745	2 records, between 17/09/2011 and 04/06/2015	Stead.M.O.; Shanklin, J.			Penycae		D1169/004/02	GBNNSIP, RD1-DD, RD2-NR	NA
<i>Rumex acetosa</i> (Common Sorrel / Suran y Cwn)	SJ2845	02/09/2014	Stead, M.O.			Stryt-issa		D1169/004/02	GBNNSIP, RD1-DD, RD2-NR	NA
<i>Rumex crispus</i> (Curled Dock / Tafol Crych)	SJ2745	04/06/2015	Stead.M.O.			Penycae		D1169/004/02	RD2-NS	NA
<i>Salix caprea</i> (Goat Willow / Helygen Ddeilgron)	SJ2645	06/06/2015	Stead.M.O.			Penycae		D1169/004/02	RD2-NS	NA
<i>Salix caprea</i> (Goat Willow / Helygen Ddeilgron)	SJ2646	17/09/2011	Shanklin, J.			Tainant		D1169/004/02	RD2-NS	NA
<i>Saxicola rubetra</i> (Whinchat / Crec yr Eithin)	SJ2647	2 records, between 25/06/2012 and 24/07/2018	Neil Sumner; Trevor B Taylor	1; 4		Penycae, Cae Llwyd Reservoir	BirdTrack. Activity: S	D1297/025/01	Bern2, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RD1-NT, UKBR	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Scolopax rusticola</i> (Woodcock / Cyfflog)	SJ2745	8 records, between 08/10/2007 and 18/11/2014	JA Jackson	1; 2; 3; 2 Adult; 7 Adult	Reported to recorder	Penycae	fighting' at dusk towards feed site. Survey: Observer data; Survey: Observer data; Flew high towards forest, 15/00h. Survey: Observer data; Regular dusk fighting towards boggy area. Survey: Observer data; Flying at dusk from conifer planting. Survey: Observer data; Flying towards boggy ar...	D0062/008/01	BDir2.1, Bonn2, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RD1-VU, UKBR, WBA	NA
<i>Scolopax rusticola</i> (Woodcock / Cyfflog)	SJ2647	2 records, between 19/05/2005 and 12/12/2007	John Lawton Roberts	1; 2	Reported to recorder	Penycae, Cae Llwyd Reservoir	Survey: Observer data; Flying N along moor fringe. Survey: Observer data	D0062/008/01	BDir2.1, Bonn2, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RD1-VU, UKBR, WBA	NA
<i>Scolopax rusticola</i> (Woodcock / Cyfflog)	SJ2645	2 records, between 11/03/2005 and 14/03/2005	John Lawton Roberts; JA Jackson	1; 5	Reported to recorder	Penycae, Trefechan	Survey: Observer data; Up to 5 flying from forest to reservoirs to feed at dusk, ca 14-25/03/2005. Survey: Observer data	D0062/008/01	BDir2.1, Bonn2, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RD1-VU, UKBR, WBA	NA
<i>Spatula clypeata</i> (Shoveler / Hwyaden Lydanbig)	SJ2747	02/11/2015	Steven Davies	3		Penycae, Bryn Goleu	Bird Track	D1297/025/01	BDir2.1, Bonn2, CITES-C, LBAP- A, LBAP-C, LBAP-G, UKBA, WBA	PC
<i>Streptopelia decaocto</i> (Collared Dove / Turtur Dorchog)	SJ2845	37 records, between 01/01/2007 and 08/02/2015	Anon; Peter Lawton; Teresa Wright	2; 1; 4			Occurrence ID: NBN-GA000656- BGBW2009- 16441830- 106179833; Birdtrack; Birdtrack;; BirdTrack; Bird Track	D1852/002/01 , D1297/025/01	BDir2.2, GBNNSIP, RD1- NT	PC
<i>Streptopelia decaocto</i> (Collared Dove / Turtur Dorchog)	SJ2745	3 records, between 22/01/2008 and 02/03/2013	Anon; JA Jackson; Steven Davies	1 Nestling; 1	Reported to recorder		Occurrence ID: NBN-GA000656- BGBW2009- 16440957- 106179894; prematurely fledged young. Survey: Observer data; BirdTrack	D1852/002/01 , D0062/008/01 , D1297/025/01	BDir2.2, GBNNSIP, RD1- NT	PC, NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Streptopelia decaocto</i> (Collared Dove / Turtur Dorchog)	SJ2646	11/07/2009	Jason Newton	1	Reported to recorder	Penycae, NW	Activity: H. Survey: Observer data	D0062/008/01	BDir2.2, GBNNSIP, RD1-NT	NA
<i>Streptopelia decaocto</i> (Collared Dove / Turtur Dorchog)	SJ2747	3 records, between 11/07/2009 and 15/10/2016	Jason Newton; Steven Davies	2; 1	Reported to recorder	Penycae, Bryn Goleu	Ty-Mawr Reservoir. Activity: H. Survey: Observer data; Bird Track; BirdTrack	D0062/008/01 , D1297/025/01	BDir2.2, GBNNSIP, RD1-NT	NA, PC
<i>Streptopelia decaocto</i> (Collared Dove / Turtur Dorchog)	SJ2645	3 records, between 22/04/2014 and 21/03/2018	Peter Lawton; Trevor B Taylor	1; 3		Penycae, Trefechan	BirdTrack	D1297/025/01	BDir2.2, GBNNSIP, RD1-NT	PC
<i>Strix aluco</i> (Tawny Owl / Tylluan Frech)	SJ2845	2 records, between 22/12/2008 and 01/03/2010	Peter Lawton	1		Penycae, E	Birdtrack; Birdtrack:	D1297/025/01	Bern2, CITES-A, LBAP-C, RD1-NT, UKBA	PC
<i>Sympetrum striolatum</i> (Common Darter / Gwäell Gyffredin)	SJ264465	21/07/2006	Bryan Formstone	2-5 adult		Top y Tainant, Rhosllanerchrugog		D1295/001/04	LBAP-S, RD1-DD	NA
<i>Tadorna tadorna</i> (Shelduck / Hwyaden yr Eithin)	SJ2747	07/06/2010	JA Jackson	1	Reported to recorder	Penycae, Bryn Goleu	Survey: Observer data	D0062/008/01	Bern2, Bonn2, LBAP-C, LBAP-G, RD1-EN, UKBA, WBA	NA
<i>Tringa totanus</i> (Redshank / Pibydd Coesgoch)	SJ2745	31/01/2019	J.A.Jackson	1		Penycae	After cold night (-4 d)	D0062/010/01	BDir2.2, Bonn2, LBAP-A, LBAP-C, LBAP-G, RD1-EN, RD1-NT, RD1-VU, UKBA, WBA	NA
<i>Turdus viscivorus</i> (Mistle Thrush / Brych y Coed)	SJ2747	7 records, between 01/11/2014 and 23/03/2017	Mr P E Miller; Steven Davies; Anne Brenchley; Neil Hughes	2; 1		Mawr Reservoir, Bronwylfa	BirdTrack; Bird Track. Activity: B; Bird Track; BirdTrack. Activity: S	D1297/021/01 , D1297/025/01	BDir2.2, RD1-VU, UKBR	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Turdus viscivorus</i> (Mistle Thrush / Brych y Coed)	SJ2645	8 records, between 12/10/2008 and 14/03/2016	Neil Hughes; John Rushton; Peter Lawton	1; 3; 2; 4	Reported to recorder	Penycae, Trefechan	Survey: Observer data; Activity: H. Survey: Observer data; Activity: ON. Survey: Observer data; BirdTrack; Bird Track	D0062/008/01 , D1297/025/01	BDir2.2, RD1-VU, UKBR	NA, PC
<i>Turdus viscivorus</i> (Mistle Thrush / Brych y Coed)	SJ2745	10 records, between 19/09/2006 and 29/09/2016	JA Jackson; Steven Davies; John Rushton	14; 30; 50; 60; 200; 100 Fullgrown; 1	Reported to recorder	Penycae	Survey: Observer data; Flock moving due NW. Survey: Observer data; On Yew berries. Survey: Observer data; Moving W. Survey: Observer data; moving N. Survey: Observer data; moving SE, ca 1 mile high, all then landed on wires and bushes, then off SE in small parties. Survey: Observer data; Moving SW,	D0062/008/01 , D1297/025/01	BDir2.2, RD1-VU, UKBR	NA, PC
<i>Turdus viscivorus</i> (Mistle Thrush / Brych y Coed)	SJ2647	4 records, between 05/10/2006 and 24/07/2018	JA Jackson; Neil Sumner; Steven Davies; Trevor B Taylor	80; 5; 1; 2	Reported to recorder	Penycae, Cae Llwyd Reservoir	Moving SW. Survey: Observer data; BirdTrack. Activity: H; Bird Track	D0062/008/01 , D1297/025/01	BDir2.2, RD1-VU, UKBR	NA, PC
<i>Turdus viscivorus</i> (Mistle Thrush / Brych y Coed)	SJ2845	5 records, between 05/03/2007 and 13/01/2009	Peter Lawton	2; 1		Penycae, E	Birdtrack	D1297/025/01	BDir2.2, RD1-VU, UKBR	PC
<i>Turdus viscivorus</i> (Mistle Thrush / Brych y Coed)	SJ2646	2 records, between 20/04/2011 and 29/04/2014	Peter Lawton; John Rushton	2; 1		Penycae, NW	BirdTrack	D1297/025/01	BDir2.2, RD1-VU, UKBR	PC
<i>Turdus viscivorus</i> (Mistle Thrush / Brych y Coed)	SJ2746	27/03/2015	John Rushton	1		Penycae, Tainant	Bird Track	D1297/025/01	BDir2.2, RD1-VU, UKBR	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Veronica serpyllifolia</i> (Thyme-leaved Speedwell / Rhwyddlwyn Dail Teim)	SJ2645	06/06/2015	Stead.M.O.			Penycae		D1169/004/02	RD1-NT	NA
<i>Veronica serpyllifolia</i> (Thyme-leaved Speedwell / Rhwyddlwyn Dail Teim)	SJ2646	17/09/2011	Shanklin, J.			Tainant		D1169/004/02	RD1-NT	NA
<i>Veronica serpyllifolia</i> (Thyme-leaved Speedwell / Rhwyddlwyn Dail Teim)	SJ2745	04/06/2015	Stead.M.O.			Penycae		D1169/004/02	RD1-NT	NA
<i>Viola palustris</i> (Marsh Violet / Fioled y Gors)	SJ2646	2 records, between 17/09/2011 and 28/09/2014	Stead, M.O.; Shanklin, J.			Tainant		D1169/004/02	RD2-NS	NA

Category 3 Species										
Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Aeshna juncea</i> (Common Hawker / Gwas Neidr Glas)	SJ263467	21/07/2006	Bryan Formstone	1 adult		Top y Tainant, Rhosllanerchrugog		D1295/001/04	LBAP-S	NA
<i>Anser anser</i> (Greylag Goose / Gwydd Wylt)	SJ2747	11 records, between 27/05/2011 and 06/04/2019	Mr P E Miller; JA Jackson; Steven Davies; Paul E Miller; Mr Steven Davies	10; 4 Adult; 6 Juvenile; 4; 20; 15+; 21; 8; 1; 15; c30	Reported to recorder	Mawr Reservoir, Bronwyl fa	Survey: Observer data; Bird Track; Bird track. circled over before flying SE; BirdTrack; BirdTrack. Activity: P	D1297/021/01 , D0062/008/01 , D1297/025/01 , D1297/026/01	BDir2.1, Bonn2, LBAP-C, UKBA, WCA1.2	PC, NA
<i>Anser anser</i> (Greylag Goose / Gwydd Wylt)	SJ2746	3 records, all on 11/05/2010	John Lawton Roberts	1 Female; 1 Male; 2 Nestling	Reported to recorder	Penycae, Tainant	Survey: Observer data	D0062/008/01	BDir2.1, Bonn2, LBAP-C, UKBA, WCA1.2	NA
<i>Anser anser</i> (Greylag Goose / Gwydd Wylt)	SJ2647	4 records, between 14/03/2015 and 06/04/2019	Steven Davies; Mr Steven Davies	4; 2; 6; c10		Penycae, Cae Llwyd Reservoir	Bird Track; BirdTrack	D1297/025/01 , D1297/026/01	BDir2.1, Bonn2, LBAP-C, UKBA, WCA1.2	PC
<i>Anser brachyrhynchus</i> (Pink-footed Goose / Gwydd Troetbinc)	SJ2745	06/01/2018	JA Jackson	4400	Reported to recorder	Penycae	moving due N: 2000, 1000. 600. 800 ca 11.30h. Survey: Observer data	D0062/008/01	BDir2.2, Bonn2, GBNNSIP, UKBA	NA
<i>Bombus lapidarius</i> (Red-tailed Bumblebee)	SJ262467 (Selected from Interactive Map)	26/03/2020	Kim Norman	1 Adult Female	Live Sighting	Rhos		D1117/001/01	LBAP-F	PC
<i>Bombus magnus</i> (Northern White- tailed Bumblebee)	SJ264465	01/09/2002	Bryan Formstone	4 present		Top y Tainant		D0217/001/04	LBAP-F	NA
<i>Bombus monticola</i> (Bilberry Bumblebee)	SJ264465	01/09/2002	J.B. Formstone	1 Adult		Top y Tainant	On gorse. Method: Netted	D1650/001/02	LBAP-F	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Buteo buteo</i> (Buzzard / Bwncaeth)	SJ2747	10 records, between 23/05/2004 and 09/04/2018	Mr P E Miller; Norman Hallas; Jason Newton; Anne Brenchley; Steven Davies; Neil Hughes; Paul E Miller	1; 3; 2; 2+	Reported to recorder	Mawr Reservoir, Bronwyl fa	Survey: Observer data; Ty-Mawr Reservoir. Activity: H. Survey: Observer data; Bird Track; BirdTrack; Activity: T	D1297/021/01 , D0062/008/01 , D1297/025/01	Bonn2, CITES-A, LBAP-C	PC, NA
<i>Buteo buteo</i> (Buzzard / Bwncaeth)	SJ2646	2 records, between 17/12/2008 and 20/04/2011	John Rushton; Peter Lawton	1	Reported to recorder	Penycae, NW	Survey: Observer data; BirdTrack	D0062/008/01 , D1297/025/01	Bonn2, CITES-A, LBAP-C	NA, PC
<i>Buteo buteo</i> (Buzzard / Bwncaeth)	SJ2645	18 records, between 07/07/2006 and 14/03/2016	John Rushton; Steven Davies; Peter Lawton; Anne Brenchley	1; 2; 3	Reported to recorder	Penycae, Trefechan	Survey: Observer data; Activity: H. Survey: Observer data; BirdTrack; Bird Track	D0062/008/01 , D1297/025/01	Bonn2, CITES-A, LBAP-C	NA, PC
<i>Buteo buteo</i> (Buzzard / Bwncaeth)	SJ2745	7 records, between 20/07/2006 and 24/05/2016	John Rushton; Steven Davies	2; 3; 1	Reported to recorder	Penycae	Survey: Observer data; BirdTrack; Bird Track	D0062/008/01 , D1297/025/01	Bonn2, CITES-A, LBAP-C	NA, PC
<i>Buteo buteo</i> (Buzzard / Bwncaeth)	SJ2647	8 records, between 16/04/2007 and 06/04/2019	John Rushton; Jason Newton; Neil Sumner; Steven Davies; Mr Steven Davies	2; 1; 2+	Reported to recorder	Penycae, Cae Llwyd Reservoir	Survey: Observer data; Activity: H. Survey: Observer data; Birdtrack; BirdTrack	D0062/008/01 , D1297/025/01 , D1297/026/01	Bonn2, CITES-A, LBAP-C	NA, PC
<i>Buteo buteo</i> (Buzzard / Bwncaeth)	SJ2845	3 records, between 12/01/2008 and 14/12/2008	Peter Lawton	1; 2		Penycae, E	Birdtrack	D1297/025/01	Bonn2, CITES-A, LBAP-C	PC
<i>Buteo buteo</i> (Buzzard / Bwncaeth)	SJ2746	2 records, between 10/03/2014 and 27/03/2015	John Rushton	2; 1		Penycae, Tainant	BirdTrack; Bird Track	D1297/025/01	Bonn2, CITES-A, LBAP-C	PC
<i>Calliergus giganteum</i> (Giant Spear- moss)	SJ2646	1950 to 1988	Hill, M.O.			-Withheld-	-Withheld-	D1075/001/06	LBAP-C, LBAP-F, LI-51[LR]	NA
<i>Carduelis carduelis</i> (Goldfinch / Nico)	SJ2845	33 records, between 06/01/2007 and 10/04/2015	Anon; Peter Lawton; Teresa Wright	1; 2; 5; 3; 6; 8+; 9; 4; 200			Occurrence ID: NBN-GA000656- BGBW2009- 16441888- 106438042; Birdtrack; Birdtrack;; BirdTrack; Bird Track	D1852/002/01 , D1297/025/01	Bern2, LBAP-A, LBAP-C	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Carduelis carduelis</i> (Goldfinch / Nico)	SJ2647	8 records, between 04/07/2009 and 06/04/2019	John Rushton; Jason Newton; Neil Sumner; Steven Davies; Trevor B Taylor; Mr Steven Davies	2; 10+; 8 Juvenile; 4; 3; 20; 5+	Reported to recorder	Penycae, Cae Llwyd Reservoir	Survey: Observer data; Activity: FL. Survey: Observer data; BirdTrack. Activity: S; Bird Track; BirdTrack	D0062/008/01 , D1297/025/01 , D1297/026/01	Bern2, LBAP-A, LBAP-C	NA, PC
<i>Carduelis carduelis</i> (Goldfinch / Nico)	SJ2645	9 records, between 01/04/2012 and 18/04/2015	Neil Hughes; John Rushton; Peter Lawton	2; 1; 3; 4; 6; 11	Reported to recorder	Penycae, Trefechan	Survey: Observer data; BirdTrack; Bird Track	D0062/008/01 , D1297/025/01	Bern2, LBAP-A, LBAP-C	NA, PC
<i>Carduelis carduelis</i> (Goldfinch / Nico)	SJ2745	5 records, between 15/10/2005 and 21/01/2018	John Rushton; JA Jackson	3; 42; 40+; 6+; 4	Reported to recorder	Penycae	Survey: Observer data; Maximum at feeders. Survey: Observer data; After snow, on feeders in garden. Survey: Observer data; BirdTrack	D0062/008/01 , D1297/025/01	Bern2, LBAP-A, LBAP-C	NA, PC
<i>Carduelis carduelis</i> (Goldfinch / Nico)	SJ2746	4 records, between 11/07/2009 and 08/07/2017	JA Jackson; Jason Newton; John Rushton	31; 1; 3	Reported to recorder	Penycae, Tainant	Maximum on and under feeders. Survey: Observer data; Activity: H. Survey: Observer data; BirdTrack; Bird Track	D0062/008/01 , D1297/025/01	Bern2, LBAP-A, LBAP-C	NA, PC
<i>Carduelis carduelis</i> (Goldfinch / Nico)	SJ2646	2 records, between 11/07/2009 and 21/05/2014	Jason Newton; John Rushton	1; 2	Reported to recorder	Penycae, NW	Activity: H. Survey: Observer data; BirdTrack	D0062/008/01 , D1297/025/01	Bern2, LBAP-A, LBAP-C	NA, PC
<i>Carduelis carduelis</i> (Goldfinch / Nico)	SJ2846	04/07/2009	Jason Newton	1	Reported to recorder	Rhosllanerchrugog, W	Activity: H. Survey: Observer data	D0062/008/01	Bern2, LBAP-A, LBAP-C	NA
<i>Carduelis carduelis</i> (Goldfinch / Nico)	SJ2747	11 records, between 04/07/2009 and 06/04/2019	Jason Newton; Anne Brenchley; Steven Davies; Neil Hughes; Mr Steven Davies	2; 1	Reported to recorder	Penycae, Bryn Goleu	Bryn Goleu. Activity: H. Survey: Observer data; Bird Track; BirdTrack; BirdTrack. Activity: P	D0062/008/01 , D1297/025/01 , D1297/026/01	Bern2, LBAP-A, LBAP-C	NA, PC
<i>Certhia familiaris</i> (Treecreeper / Dringwr Bach)	SJ2845	7 records, between 25/10/2008 and 23/03/2017	Anon; Peter Lawton	1			Occurrence ID: NBN-GA000656-BGBW2009-16441830-106817385; Birdtrack; BirdTrack; Bird Track	D1852/002/01 , D1297/025/01	Bern2, LBAP-C	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Certhia familiaris</i> (Treetreeper / Dringwr Bach)	SJ2745	4 records, between 29/09/2005 and 17/12/2008	JA Jackson; John Rushton	1; 2	Reported to recorder	Penycae	1+ on feeders to this date. Survey: Observer data; Survey: Observer data; first of winter on feeders at site. Survey: Observer data	D0062/008/01	Bern2, LBAP-C	NA
<i>Certhia familiaris</i> (Treetreeper / Dringwr Bach)	SJ2645	8 records, between 08/04/2005 and 18/04/2015	John Rushton; Neil Hughes; Peter Lawton	1; 3; 4; 2	Reported to recorder	Penycae, Trefechan	Survey: Observer data; Activity: FF. Survey: Observer data; Activity: N. Survey: Observer data; BirdTrack; Bird Track	D0062/008/01 , D1297/025/01	Bern2, LBAP-C	NA, PC
<i>Certhia familiaris</i> (Treetreeper / Dringwr Bach)	SJ2747	04/07/2009	Jason Newton	1	Reported to recorder	Penycae, Bryn Goleu	Cae-Ilwyd reservoir. Activity: H. Survey: Observer data	D0062/008/01	Bern2, LBAP-C	NA
<i>Certhia familiaris</i> (Treetreeper / Dringwr Bach)	SJ2746	14/03/2015	Steven Davies	1		Penycae, Tainant	Bird Track	D1297/025/01	Bern2, LBAP-C	PC
<i>Certhia familiaris</i> (Treetreeper / Dringwr Bach)	SJ2647	06/04/2019	Mr Steven Davies	2		Cae-Ilwyd Reservoir		D1297/026/01	Bern2, LBAP-C	PC
<i>Chaenorhinum minus</i> (Small Toadflax / Trwyn-y-Llo Bach)	SJ27114642	30/07/2015	Jonathan Shanklin			Tainant	Two plants at edge of hard standing	D1169/004/02	GBNNSIP, LBAP-G, LI-48[LS], LI-49[LS], LI-50[LS]	NA
<i>Columba oenas</i> (Stock Dove / Colomen Wyllt)	SJ2645	6 records, between 07/07/2006 and 18/04/2015	John Rushton; Peter Lawton	1; 4; 3	Reported to recorder	Penycae, Trefechan	Survey: Observer data; Activity: H. Survey: Observer data; Bird Track	D0062/008/01 , D1297/025/01	BDir2.2, LBAP-G, UKBA	NA, PC
<i>Columba oenas</i> (Stock Dove / Colomen Wyllt)	SJ2745	6 records, between 27/12/2005 and 06/01/2019	JA Jackson; John Rushton; Steven Davies; J.A.Jackson	2; 1; 6	Reported to recorder	Penycae	Under birdtable, regularly. Survey: Observer data; Survey: Observer data; BirdTrack; Regular under ditto feeders	D0062/008/01 , D1297/025/01 , D0062/010/01	BDir2.2, LBAP-G, UKBA	NA, PC
<i>Columba oenas</i> (Stock Dove / Colomen Wyllt)	SJ2746	4 records, between 11/07/2009 and 27/03/2015	Jason Newton; John Rushton; Steven Davies	1; 2; 8	Reported to recorder	Penycae, Tainant	Activity: H. Survey: Observer data; BirdTrack; Bird Track	D0062/008/01 , D1297/025/01	BDir2.2, LBAP-G, UKBA	NA, PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Columba oenas</i> (Stock Dove / Colomen Wyllt)	SJ2747	01/11/2014	Steven Davies	3		Penycae, Bryn Goleu	BirdTrack	D1297/025/01	BDir2.2, LBAP-G, UKBA	PC
<i>Cordulegaster boltonii</i> (Golden-ringed Dragonfly / Gwas Neidr Eurdorchog)	SJ264465	2 records, between 15/07/2005 and 21/07/2006	Bryan Formstone	2-5 adult		Top y Tainant, Rhosllanerchrugog		D1295/001/04	LBAP-S	NA
<i>Corvus corax</i> (Raven / Cigfran)	SJ2747	5 records, between 04/07/2009 and 15/12/2016	Mr P E Miller; Jason Newton	1; 2	Reported to recorder	Mawr Reservoir, Bronwylfa	Bryn Golem. Activity: H. Survey: Observer data	D1297/021/01 , D0062/008/01	LBAP-C	PC, NA
<i>Corvus corax</i> (Raven / Cigfran)	SJ2645	16 records, between 25/01/2006 and 21/03/2018	John Rushton; Steven Davies; Peter Lawton; Trevor B Taylor	1; 2; 3	Reported to recorder	Penycae, Trefechan	Survey: Observer data; Activity: H. Survey: Observer data; BirdTrack; Bird Track	D0062/008/01 , D1297/025/01	LBAP-C	NA, PC
<i>Corvus corax</i> (Raven / Cigfran)	SJ2746	3 records, between 20/07/2006 and 21/05/2014	John Rushton	1; 7	Reported to recorder	Penycae, Tainant	Survey: Observer data; BirdTrack	D0062/008/01 , D1297/025/01	LBAP-C	NA, PC
<i>Corvus corax</i> (Raven / Cigfran)	SJ2646	2 records, between 22/01/2005 and 17/12/2008	John Rushton; John Lawton Roberts	1; 90+	Reported to recorder	Penycae, NW	Survey: Observer data; Roost. Survey: Observer data	D0062/008/01	LBAP-C	NA
<i>Corvus corax</i> (Raven / Cigfran)	SJ2745	17/12/2008	John Rushton	1	Reported to recorder	Penycae	Survey: Observer data	D0062/008/01	LBAP-C	NA
<i>Corvus corax</i> (Raven / Cigfran)	SJ2647	4 records, between 16/04/2007 and 24/07/2018	Neil Sumner; Steven Davies; Trevor B Taylor	2; 1		Penycae, Cae Llwyd Reservoir	Birdtrack; BirdTrack; Bird Track	D1297/025/01	LBAP-C	PC
<i>Corvus corax</i> (Raven / Cigfran)	SJ2845	2 records, between 02/10/2008 and 31/10/2014	Peter Lawton	1		Penycae, E	Birdtrack; BirdTrack	D1297/025/01	LBAP-C	PC
<i>Cruciata laevipes</i> (Crosswort / Llysiau'r Groes)	SJ2645	06/06/2015	Stead.M.O.			Penycae		D1169/004/02	LBAP-G, LI-49[LS], LI-52[LS]	NA
<i>Cruciata laevipes</i> (Crosswort / Llysiau'r Groes)	SJ2745	2 records, between 17/09/2011 and 04/06/2015	Stead.M.O.; Shanklin, J.			Penycae		D1169/004/02	LBAP-G, LI-49[LS], LI-52[LS]	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Cyanistes caeruleus</i> (Blue Tit / Penloyn)	SJ2845	39 records, between 01/01/2007 and 23/03/2017	Anon; Peter Lawton; Teresa Wright	3; 2; 1; 5+; 4; 5; 7; 10			Occurrence ID: NBN-GA000656-BGBW2009-16441829-105771244; Birdtrack; Birdtrack;; BirdTrack; Bird Track	D1852/002/01 , D1297/025/01	Bern2, LBAP-C	PC
<i>Cyanistes caeruleus</i> (Blue Tit / Penloyn)	SJ2745	6 records, between 17/12/2008 and 24/05/2016	Anon; John Rushton; Steven Davies	5; 2; 3	Reported to recorder		Occurrence ID: NBN-GA000656-BGBW2009-16441296-105771888; Survey: Observer data; Birdtrack. There was 2 adults and 3 juv's; Bird Track; BirdTrack	D1852/002/01 , D0062/008/01 , D1297/025/01	Bern2, LBAP-C	PC, NA
<i>Cyanistes caeruleus</i> (Blue Tit / Penloyn)	SJ2645	27 records, between 25/02/2005 and 14/03/2016	John Rushton; Steven Davies; Peter Lawton; Anne Brenchley	2; 3; 4; 6; 7; 3+; 5; 1	Reported to recorder	Penycae, Trefechan	Survey: Observer data; Part of same flock. Survey: Observer data; Activity: H. Survey: Observer data; BirdTrack; Bird Track	D0062/008/01 , D1297/025/01	Bern2, LBAP-C	NA, PC
<i>Cyanistes caeruleus</i> (Blue Tit / Penloyn)	SJ2746	5 records, between 17/12/2008 and 27/03/2015	John Rushton	3; 8	Reported to recorder	Penycae, Tainant	Survey: Observer data; BirdTrack; Bird Track	D0062/008/01 , D1297/025/01	Bern2, LBAP-C	NA, PC
<i>Cyanistes caeruleus</i> (Blue Tit / Penloyn)	SJ2846	04/07/2009	Jason Newton	1	Reported to recorder	Rhosllanerchrugog, W	Activity: H. Survey: Observer data	D0062/008/01	Bern2, LBAP-C	NA
<i>Cyanistes caeruleus</i> (Blue Tit / Penloyn)	SJ2747	9 records, between 02/03/2013 and 30/03/2018	Steven Davies; Anne Brenchley	1		Penycae, Bryn Goleu	BirdTrack; Bird Track	D1297/025/01	Bern2, LBAP-C	PC
<i>Cyanistes caeruleus</i> (Blue Tit / Penloyn)	SJ2647	6 records, between 16/04/2007 and 15/10/2016	Neil Sumner; Steven Davies	2; 2+		Penycae, Cae Llwyd Reservoir	Birdtrack; BirdTrack. Activity: FL; BirdTrack; Bird Track	D1297/025/01	Bern2, LBAP-C	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Dendrocopos major</i> (Great Spotted Woodpecker / Cnocell Fraith Fwyaf)	SJ2747	4 records, between 20/03/2015 and 30/03/2018	Mr P E Miller; Anne Brenchley; Neil Hughes; Steven Davies	1		Mawr Reservoir, Bronwyf	Bird Track. Activity: S; BirdTrack	D1297/021/01 , D1297/025/01	Bern2, LBAP-C	PC
<i>Dendrocopos major</i> (Great Spotted Woodpecker / Cnocell Fraith Fwyaf)	SJ2845	13 records, between 08/07/2008 and 28/05/2015	Anon; Peter Lawton	1; 2			Occurrence ID: NBN-GA000656-BGBW2009-16441640-106438040; Birdtrack; Birdtrack;; BirdTrack; Bird Track	D1852/002/01 , D1297/025/01	Bern2, LBAP-C	PC
<i>Dendrocopos major</i> (Great Spotted Woodpecker / Cnocell Fraith Fwyaf)	SJ2745	5 records, between 29/09/2005 and 01/06/2017	John Rushton; JA Jackson	1; 2; 6	Reported to recorder	Penycae	Survey: Observer data; Pulling worms from soil under feeders. Survey: Observer data; 6 definitely separate individuals coming to feeders by house. Survey: Observer data; BirdTrack; Bird Track	D0062/008/01 , D1297/025/01	Bern2, LBAP-C	NA, PC
<i>Dendrocopos major</i> (Great Spotted Woodpecker / Cnocell Fraith Fwyaf)	SJ2746	3 records, between 17/12/2008 and 27/03/2015	John Rushton	1; 2	Reported to recorder	Penycae, Tainant	Survey: Observer data; BirdTrack; Bird Track	D0062/008/01 , D1297/025/01	Bern2, LBAP-C	NA, PC
<i>Dendrocopos major</i> (Great Spotted Woodpecker / Cnocell Fraith Fwyaf)	SJ2645	6 records, between 12/10/2008 and 01/04/2014	John Rushton; Neil Hughes	1; 1 Male	Reported to recorder	Penycae, Trefechan	Survey: Observer data; BirdTrack	D0062/008/01 , D1297/025/01	Bern2, LBAP-C	NA, PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Dendrocopos major</i> (Great Spotted Woodpecker / Cnocell Fraith Fwyaf)	SJ2646	11/07/2009	Jason Newton	1	Reported to recorder	Penycae, NW	Activity: H. Survey: Observer data	D0062/008/01	Bern2, LBAP-C	NA
<i>Dendrocopos major</i> (Great Spotted Woodpecker / Cnocell Fraith Fwyaf)	SJ2647	25/06/2012	Neil Sumner			Penycae, Cae Llwyd Reservoir	BirdTrack. Activity: H	D1297/025/01	Bern2, LBAP-C	PC
<i>Drosera rotundifolia</i> (Round-leaved Sundew / Gwlithlys)	SJ2646	28/09/2014	Stead, M.O.			Tainant		D1169/004/02	LBAP-A, LI-51[LS]	NA
<i>Drosera rotundifolia</i> (Round-leaved Sundew / Gwlithlys)	SJ26204637	30/07/2015	Jonathan Shanklin			Tainant	Locally frequent and nearly in flower in wet flush	D1169/004/02	LBAP-A, LI-51[LS]	NA
<i>Egretta garzetta</i> (Little Egret / Crëyr Bach)	SJ2645	24/07/2014	JA Jackson	1	Reported to recorder	Penycae, Trefechan	Survey: Observer data	D0062/008/01	BDir1, Bern2, CITES-A, LBAP-C, LBAP-G	NA
<i>Glyceria notata</i> (Plicate Sweet-grass / Melyswellt Plygedig)	SJ2646	17/09/2011	Shanklin, J.			Tainant		D1169/004/02	LBAP-G, LI-48[LR], LI-49[LS]	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Mentha aquatica</i> (Water Mint / Mintys y Dwr)	SJ2645	06/06/2015	Stead.M.O.			Penycae		D1169/004/02	LBAP-A	NA
<i>Mentha aquatica</i> (Water Mint / Mintys y Dwr)	SJ2646	2 records, between 17/09/2011 and 28/09/2014	Stead, M.O.; Shanklin, J.			Tainant		D1169/004/02	LBAP-A	NA
<i>Mentha aquatica</i> (Water Mint / Mintys y Dwr)	SJ2647	28/09/2014	Stead, M.O.			Tainant		D1169/004/02	LBAP-A	NA
<i>Mentha aquatica</i> (Water Mint / Mintys y Dwr)	SJ2745	2 records, between 17/09/2011 and 04/06/2015	Stead.M.O.; Shanklin, J.			Penycae		D1169/004/02	LBAP-A	NA
<i>Mergus merganser</i> (Goosander / Hwyaden Ddanheddog)	SJ2747	10 records, between 05/03/2007 and 30/03/2018	Mr P E Miller; JA Jackson; Steven Davies	18; 29; 4; 20; 1 Male; 7 Female; 2; 6; 1	Reported to recorder	Mawr Reservoir, Bronwyl fa	Survey: Observer data; Visiting reservoir in evenings. Survey: Observer data; BirdTrack; Bird Track	D1297/021/01 , D0062/008/01 , D1297/025/01	BDir2.2, Bonn2, LBAP-C	PC, NA
<i>Mergus merganser</i> (Goosander / Hwyaden Ddanheddog)	SJ2645	2 records, both on 05/02/2011	JA Jackson	2 Male; 5 Female	Reported to recorder	Penycae, Trefechan	Survey: Observer data	D0062/008/01	BDir2.2, Bonn2, LBAP-C	NA
<i>Mergus merganser</i> (Goosander / Hwyaden Ddanheddog)	SJ2745	31/08/2011	JA Jackson	23 Fullgrown	Reported to recorder	Penycae	Flying north. Survey: Observer data	D0062/008/01	BDir2.2, Bonn2, LBAP-C	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Mergus merganser</i> (Goosander / Hwyaden Ddanheddog)	SJ2647	14/03/2015	Steven Davies	1		Penycae, Cae Llwyd Reservoir	Bird Track	D1297/025/01	BDir2.2, Bonn2, LBAP-C	PC
<i>Mergus merganser</i> (Goosander / Hwyaden Ddanheddog)	SJ2746	24/09/2019	J.A.Jackson	21		Penycae, Tainant	Flock on reservoir	D0062/010/01	BDir2.2, Bonn2, LBAP-C	NA
<i>Motacilla alba</i> <i>alba</i> (White Wagtail / Siglen Wen)	SJ2647	09/10/2009	John Rushton	1	Reported to recorder	Penycae, Cae Llwyd Reservoir	Survey: Observer data	D0062/008/01	Bern2, LBAP-T	NA
<i>Motacilla alba</i> <i>yarrellii</i> (Pied Wagtail / Siglen Fraith)	SJ2747	13 records, between 02/03/2013 and 06/04/2019	Mr P E Miller; Steven Davies; Anne Brenchley; Neil Hughes; Paul E Miller; Mr Steven Davies	2; 7; 3; 1		Mawr Reservoir, Bronwyl fa	BirdTrack; Bird Track; BirdTrack. Activity: P; Activity: P	D1297/021/01 , D1297/025/01 , D1297/026/01	Bern2, LBAP-T	PC
<i>Motacilla alba</i> <i>yarrellii</i> (Pied Wagtail / Siglen Fraith)	SJ2645	9 records, between 13/03/2007 and 21/03/2018	John Rushton; Neil Hughes; Peter Lawton; Trevor B Taylor	1; 2; 6; 3	Reported to recorder	Penycae, Trefechan	alba. Survey: Observer data; Survey: Observer data; BirdTrack; Bird Track	D0062/008/01 , D1297/025/01	Bern2, LBAP-T	NA, PC
<i>Motacilla alba</i> <i>yarrellii</i> (Pied Wagtail / Siglen Fraith)	SJ2646	2 records, between 17/12/2008 and 20/04/2011	John Rushton; Peter Lawton	3; 2	Reported to recorder	Penycae, NW	Survey: Observer data; BirdTrack	D0062/008/01 , D1297/025/01	Bern2, LBAP-T	NA, PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Motacilla alba yarrellii</i> (Pied Wagtail / Siglen Fraith)	SJ2745	5 records, between 05/11/2006 and 24/05/2016	JA Jackson; John Rushton	5; 12; 40; 85; 2	Reported to recorder	Penycae	Small passage due N with thrushes and pigeons. Survey: Observer data; Moving due S, late afternoon. Survey: Observer data; in 3 flocks, moving SW with thrushes. Survey: Observer data; Moving SSW. Survey: Observer data; BirdTrack	D0062/008/01 , D1297/025/01	Bern2, LBAP-T	NA, PC
<i>Motacilla alba yarrellii</i> (Pied Wagtail / Siglen Fraith)	SJ2647	9 records, between 16/04/2007 and 06/04/2019	Jason Newton; Neil Sumner; Steven Davies; Mr Steven Davies	1 Juvenile; 1; 4; 2	Reported to recorder	Penycae, Cae Llwyd Reservoir	Activity: FL. Survey: Observer data; Birdtrack; BirdTrack. Activity: H; BirdTrack; Bird Track	D0062/008/01 , D1297/025/01 , D1297/026/01	Bern2, LBAP-T	NA, PC
<i>Motacilla alba yarrellii</i> (Pied Wagtail / Siglen Fraith)	SJ2746	3 records, between 11/07/2009 and 08/04/2015	Jason Newton; John Rushton	1 Juvenile; 2; 1	Reported to recorder	Penycae, Tainant	Activity: FL. Survey: Observer data; BirdTrack; Bird Track	D0062/008/01 , D1297/025/01	Bern2, LBAP-T	NA, PC
<i>Motacilla alba yarrellii</i> (Pied Wagtail / Siglen Fraith)	SJ2845	02/10/2008	Peter Lawton	1		Penycae, E	Birdtrack	D1297/025/01	Bern2, LBAP-T	PC
<i>Parus major</i> (Great Tit / Titw Mawr)	SJ2845	33 records, between 01/01/2007 and 23/03/2017	Anon; Peter Lawton; Teresa Wright	2; 1; 3; 4			Occurrence ID: NBN-GA000656-BGBW2009-16441640-106438041; Birdtrack; Birdtrack;; BirdTrack; Bird Track	D1852/002/01 , D1297/025/01	Bern2, LBAP-C	PC
<i>Parus major</i> (Great Tit / Titw Mawr)	SJ2745	5 records, between 17/12/2008 and 24/05/2016	Anon; John Rushton; Steven Davies	5; 1; 2	Reported to recorder		Occurrence ID: NBN-GA000656-BGBW2009-16441296-106437944; Survey: Observer data; BirdTrack; Bird Track. Activity: D; BirdTrack. Activity: FL	D1852/002/01 , D0062/008/01 , D1297/025/01	Bern2, LBAP-C	PC, NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Parus major</i> (Great Tit / Titw Mawr)	SJ2645	20 records, between 25/01/2006 and 21/03/2018	John Rushton; Peter Lawton; Anne Brenchley; Trevor B Taylor	2; 3; 4; 5; 12; 1	Reported to recorder	Penycae, Trefechan	Survey: Observer data; Part of same flock. Survey: Observer data; Activity: H. Survey: Observer data; BirdTrack; Bird Track	D0062/008/01 , D1297/025/01	Bern2, LBAP-C	NA, PC
<i>Parus major</i> (Great Tit / Titw Mawr)	SJ2647	6 records, between 11/07/2009 and 28/08/2017	Jason Newton; Neil Sumner; Steven Davies	5; 1	Reported to recorder	Penycae, Cae Llwyd Reservoir	Activity: H. Survey: Observer data; BirdTrack. Activity: H; BirdTrack; Bird Track	D0062/008/01 , D1297/025/01	Bern2, LBAP-C	NA, PC
<i>Parus major</i> (Great Tit / Titw Mawr)	SJ2747	7 records, between 02/03/2013 and 06/04/2019	Steven Davies; Anne Brenchley; Mr Steven Davies	1; 2		Penycae, Bryn Goleu	BirdTrack; Bird Track. Activity: S; Bird Track	D1297/025/01 , D1297/026/01	Bern2, LBAP-C	PC
<i>Parus major</i> (Great Tit / Titw Mawr)	SJ2646	2 records, between 16/05/2014 and 27/03/2015	John Rushton	2		Penycae, NW	BirdTrack; Bird Track	D1297/025/01	Bern2, LBAP-C	PC
<i>Parus major</i> (Great Tit / Titw Mawr)	SJ2746	5 records, between 08/10/2012 and 27/03/2015	John Rushton	2; 3; 1; 4		Penycae, Tainant	BirdTrack; BirdTrack. Activity: S; Bird Track	D1297/025/01	Bern2, LBAP-C	PC
<i>Phylloscopus</i> <i>collybita</i> (Chiffchaff / Siff- Siaff)	SJ2747	6 records, between 04/07/2009 and 06/04/2019	Mr P E Miller; Jason Newton; Steven Davies; Paul E Miller; Mr Steven Davies	3; 1; 2	Reported to recorder	Mawr Reservoir, Bronwyl fa	Ty-Mawr Reservoir. Activity: S. Survey: Observer data; BirdTrack. Activity: S; Activity: S	D1297/021/01 , D0062/008/01 , D1297/025/01 , D1297/026/01	LBAP-C	PC, NA
<i>Phylloscopus</i> <i>collybita</i> (Chiffchaff / Siff- Siaff)	SJ2645	16 records, between 04/05/2007 and 18/04/2015	John Rushton; Neil Hughes; Peter Lawton; Anne Brenchley	1; 2; 5; 11	Reported to recorder	Penycae, Trefechan	Survey: Observer data; Activity: H. Survey: Observer data; Activity: S. Survey: Observer data; BirdTrack. Activity: S; BirdTrack; Bird Track	D0062/008/01 , D1297/025/01	LBAP-C	NA, PC
<i>Phylloscopus</i> <i>collybita</i> (Chiffchaff / Siff- Siaff)	SJ2846	04/07/2009	Jason Newton	1	Reported to recorder	Rhosllanerchrugog, W	Activity: S. Survey: Observer data	D0062/008/01	LBAP-C	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Phylloscopus collybita</i> (Chiffchaff / Siff-Siaff)	SJ2745	3 records, between 01/07/2013 and 24/05/2016	John Rushton	1; 3		Penycae	BirdTrack; Bird Track	D1297/025/01	LBAP-C	PC
<i>Phylloscopus collybita</i> (Chiffchaff / Siff-Siaff)	SJ2647	2 records, between 16/04/2007 and 15/10/2016	Neil Sumner; Steven Davies	1		Penycae, Cae Llwyd Reservoir	Birdtrack; BirdTrack	D1297/025/01	LBAP-C	PC
<i>Phylloscopus collybita</i> (Chiffchaff / Siff-Siaff)	SJ2845	3 records, between 30/04/2008 and 10/04/2015	Peter Lawton	1		Penycae, E	Birdtrack; BirdTrack; Bird Track	D1297/025/01	LBAP-C	PC
<i>Phylloscopus collybita</i> (Chiffchaff / Siff-Siaff)	SJ2646	08/04/2015	John Rushton	1		Penycae, NW	Bird Track	D1297/025/01	LBAP-C	PC
<i>Phylloscopus collybita</i> (Chiffchaff / Siff-Siaff)	SJ2746	21/05/2014	John Rushton	1		Penycae, Tainant	BirdTrack	D1297/025/01	LBAP-C	PC
<i>Polypodium vulgare x interjectum</i> = <i>P. x mantoniae</i> (Polypody)	SJ2745	17/09/2011	Shanklin, J.			Penycae	1st for SJ24? TO BE CONFIRMED	D1169/004/02	LBAP-G, LI-49[LR], LI-50[LR]	NA
<i>Rhizomnium pseudopunctatum</i> (Felted Thyme-moss)	SJ2646	1950 to 1988	Hill, M.O.			-Withheld-	-Withheld-	D1075/001/06	LBAP-C, LI-51[LR], LI-52[LR]	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Salix viminalis</i> x <i>caprea</i> = <i>S. x</i> <i>smithiana</i> (Broad-leaved Osier / Helygen Dail Sidan)	SJ2646	30/07/2015	Jonathan Shanklin			Tainant		D1169/004/02	GBNNSIP, LBAP-G, LI-49[LR], LI-50[LS], LI-52[LS]	NA
<i>Saxicola rubicola</i> (Stonechat / Clochdar y Cerrig)	SJ2646	16/04/2012	Hilary Nash	1 Female	Reported to recorder	Penycae, NW	Survey: Observer data	D0062/008/01	Bern2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G	NA
<i>Saxicola rubicola</i> (Stonechat / Clochdar y Cerrig)	SJ2647	2 records, between 25/06/2012 and 25/03/2016	Neil Sumner; Steven Davies	2		Penycae, Cae Llwyd Reservoir	BirdTrack. Activity: H; BirdTrack	D1297/025/01	Bern2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G	PC
<i>Sitta europaea</i> (Nuthatch / Delor y Cnau)	SJ2745	5 records, between 20/07/2006 and 15/04/2015	Anon; John Rushton; Steven Davies	1; 4	Reported to recorder		Occurrence ID: NBN-GA000656-BGBW2009-16441296-106734692; Survey: Observer data; Birdtrack. There was 2 adults and 2 juv's; Bird Track	D1852/002/01 , D0062/008/01 , D1297/025/01	Bern2, LBAP-C	PC, NA
<i>Sitta europaea</i> (Nuthatch / Delor y Cnau)	SJ2645	10 records, between 13/03/2007 and 14/03/2016	John Rushton; Neil Hughes; Peter Lawton	1; 2	Reported to recorder	Penycae, Trefechan	Survey: Observer data; Both birds in and out of hole in tree. Survey: Observer data; Activity: FF. Survey: Observer data; Activity: H. Survey: Observer data; BirdTrack	D0062/008/01 , D1297/025/01	Bern2, LBAP-C	NA, PC
<i>Sitta europaea</i> (Nuthatch / Delor y Cnau)	SJ2746	3 records, between 04/07/2009 and 27/03/2015	Jason Newton; John Rushton	1; 2	Reported to recorder	Penycae, Tainant	Activity: H. Survey: Observer data; BirdTrack; Bird Track	D0062/008/01 , D1297/025/01	Bern2, LBAP-C	NA, PC
<i>Sitta europaea</i> (Nuthatch / Delor y Cnau)	SJ2646	6 records, between 11/07/2009 and 08/04/2015	Jason Newton; John Rushton	1; 2	Reported to recorder	Penycae, NW	Activity: H. Survey: Observer data; BirdTrack; Bird Track	D0062/008/01 , D1297/025/01	Bern2, LBAP-C	NA, PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Sitta europaea</i> (Nuthatch / Delor y Cnau)	SJ2846	04/07/2009	Jason Newton	1	Reported to recorder	Rhosllanerchrugog, W	Activity: H. Survey: Observer data	D0062/008/01	Bern2, LBAP-C	NA
<i>Sitta europaea</i> (Nuthatch / Delor y Cnau)	SJ2747	2 records, between 02/11/2015 and 09/04/2018	Steven Davies; Paul E Miller	1		Penycae, Bryn Goleu	Bird Track; Activity: S	D1297/025/01	Bern2, LBAP-C	PC
<i>Sitta europaea</i> (Nuthatch / Delor y Cnau)	SJ2647	14/03/2015	Steven Davies	1		Penycae, Cae Llwyd Reservoir	Bird Track	D1297/025/01	Bern2, LBAP-C	PC
<i>Sitta europaea</i> (Nuthatch / Delor y Cnau)	SJ2845	20 records, between 27/01/2007 and 23/03/2017	Peter Lawton; Teresa Wright	2; 1		Penycae, E	Birdtrack; Birdtrack;; BirdTrack; Bird Track	D1297/025/01	Bern2, LBAP-C	PC
<i>Spinus spinus</i> (Siskin / Pila Gwyrdd)	SJ2845	25 records, between 12/01/2008 and 11/03/2016	Anon; Peter Lawton; Teresa Wright	3; 1; 2; 6; 4			Occurrence ID: NBN-GA000656-BGBW2009-16441830-106817384; Birdtrack; Birdtrack;; BirdTrack	D1852/002/01 , D1297/025/01	Bern2, LBAP-C	PC
<i>Spinus spinus</i> (Siskin / Pila Gwyrdd)	SJ2745	5 records, between 27/01/2006 and 06/01/2019	JA Jackson; John Lawton Roberts; Steven Davies; J.A.Jackson	1; 4; 3; ca 30	Reported to recorder	Penycae	1st of winter 2007-2008 on feeders at site. Survey: Observer data; 1st on feeders of winter 2008-2009. Survey: Observer data; 1st on feeders here. Survey: Observer data; Bird Track; Feeders in garden	D0062/008/01 , D1297/025/01 , D0062/010/01	Bern2, LBAP-C	NA, PC
<i>Spinus spinus</i> (Siskin / Pila Gwyrdd)	SJ2647	25/06/2012	Neil Sumner			Penycae, Cae Llwyd Reservoir	BirdTrack. Activity: H	D1297/025/01	Bern2, LBAP-C	PC
<i>Sylvia atricapilla</i> (Blackcap / Telor Penddu)	SJ2645	4 records, between 01/07/2010 and 17/06/2014	John Rushton	1 Male; 2 Male; 2; 1	Reported to recorder	Penycae, Trefechan	Survey: Observer data; Activity: S. Survey: Observer data; BirdTrack; BirdTrack. Activity: S	D0062/008/01 , D1297/025/01	LBAP-C	NA, PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Sylvia atricapilla</i> (Blackcap / Telor Penddu)	SJ2747	2 records, between 04/07/2009 and 14/04/2017	Jason Newton; Steven Davies	1	Reported to recorder	Penycae, Bryn Goleu	Ty-Mawr Reservoir. Activity: S. Survey: Observer data; BirdTrack. Activity: S	D0062/008/01 , D1297/025/01	LBAP-C	NA, PC
<i>Sylvia atricapilla</i> (Blackcap / Telor Penddu)	SJ2647	25/06/2012	Neil Sumner			Penycae, Cae Llwyd Reservoir	BirdTrack. Activity: S	D1297/025/01	LBAP-C	PC
<i>Sylvia atricapilla</i> (Blackcap / Telor Penddu)	SJ2845	5 records, between 03/03/2007 and 16/04/2013	Peter Lawton	1		Penycae, E	Birdtrack; Birdtrack;; BirdTrack	D1297/025/01	LBAP-C	PC
<i>Ulex gallii</i> (Western Gorse / Eithinen Fân)	SJ2645	2 records, between 17/09/2011 and 06/06/2015	Stead.M.O.; Shanklin, J.			Penycae		D1169/004/02	LBAP-A, LBAP-C, LBAP-S	NA
<i>Ulex gallii</i> (Western Gorse / Eithinen Fân)	SJ2646	28/09/2014	Stead, M.O.			Tainant		D1169/004/02	LBAP-A, LBAP-C, LBAP-S	NA
<i>Ulex gallii</i> (Western Gorse / Eithinen Fân)	SJ2647	2 records, between 28/09/2014 and 30/07/2015	Jonathan Shanklin; Stead, M.O.			Tainant		D1169/004/02	LBAP-A, LBAP-C, LBAP-S	NA

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Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Aix galericulata</i> (Mandarin Duck / Hwyaden Gribog)	SJ2645	17/05/2016	JA Jackson	2	Reported to recorder	Penycae, Trefechan	Prospecting for nest site. Survey: Observer data	D0062/008/01	Bonn2, GBNNSIP, INNS, WCA9	NA
<i>Branta canadensis</i> (Canada Goose / Gwydd Canada)	SJ2645	29 records, between 02/07/2005 and 30/05/2019	Mr P Lawton; JA Jackson; John Rushton; John Lawton Roberts; Neil Hughes; Steven Davies; Anne Brenchley; Trevor B Taylor; J.A.Jackson	11; 2; 3; 4; 12; 13; 25; 400; 1 Adult; 1 Female; 1 Male; 11 Adult; 3 Juvenile; 37 Juvenile; 50+; 65+ Juvenile; 120; 7; 20; ca 200	Reported to recorder	Penycae, Newtown Forest	First of spring. Survey: Observer data; Survey: Observer data; First sighting of goslings from moor. Survey: Observer data; Other 11 ads not involved. Survey: Observer data; 3 downy yng with 1 ad pr. 34 wityh other!. Survey: Observer data; On reservoir, p;rior to breeding on moor. Survey: Observe...	D1297/020/01 , D0062/008/01 , D1297/025/01 , D0062/010/01	BDir2.1, Bonn2, GBNNSIP, INNS, WCA9	PC, NA
<i>Branta canadensis</i> (Canada Goose / Gwydd Canada)	SJ2747	11 records, between 22/09/2008 and 06/04/2019	Mr P E Miller; JA Jackson; Steven Davies; Anne Brenchley; Neil Hughes; Mr Steven Davies	40; 250; 12; 5; 18; 52+; 17; 22; 80+; c10	Reported to recorder	Mawr Reservoir, Bronwylfa	Survey: Observer data; Bird Track; Bird Track	D1297/021/01 , D0062/008/01 , D1297/025/01 , D1297/026/01	BDir2.1, Bonn2, GBNNSIP, INNS, WCA9	PC, NA
<i>Branta canadensis</i> (Canada Goose / Gwydd Canada)	SJ2647	16 records, between 09/03/2004 and 06/04/2019	John Lawton Roberts; Jason Newton; Steven Davies; Trevor B Taylor; Mr Steven Davies	2; 27; 59; 61; 10+ Juvenile; 65+; 71 Adult; 13; 58; 110+; 65; 4; 11; 100+; 7; c210	Reported to recorder	Penycae, Cae Llwyd Reservoir	Survey: Observer data; Activity: FL. Survey: Observer data; Activity: FF. Survey: Observer data; On field by reservoir. Survey: Observer data; BirdTrack; Bird Track	D0062/008/01 , D1297/025/01 , D1297/026/01	BDir2.1, Bonn2, GBNNSIP, INNS, WCA9	NA, PC
<i>Branta canadensis</i> (Canada Goose / Gwydd Canada)	SJ2745	9 records, between 23/02/2004 and 15/04/2015	John Rushton; John Lawton Roberts; JA Jackson; John D Gambles	5; 9; 20; 87; 7 Female; 7 Male; 6; 2	Reported to recorder	Penycae	Survey: Observer data; Flying west. Survey: Observer data; BirdTrack; Bird Track	D0062/008/01 , D1297/025/01	BDir2.1, Bonn2, GBNNSIP, INNS, WCA9	NA, PC
<i>Branta canadensis</i> (Canada Goose / Gwydd Canada)	SJ2646	3 records, between 29/04/2014 and 08/04/2015	John Rushton	2; 3		Penycae, NW	BirdTrack. Activity: ON; Bird Track	D1297/025/01	BDir2.1, Bonn2, GBNNSIP, INNS, WCA9	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Cotoneaster horizontalis</i> (Wall Cotoneaster / Cotoneaster Asgwrn Pysgodyn)	SJ2745	17/09/2011	Shanklin, J.			Penycae		D1169/004/02	GBNNSIP, INNS, WCA9	NA
<i>Crocospia pottsii</i> x <i>aurea</i> = <i>C. x crocosmiiflora</i> (Montbretia / Crib-y-Ceiliog)	SJ2746	30/07/2015	Jonathan Shanklin			Tainant		D1169/004/02	GBNNSIP, INNS, WCA9	NA
<i>Harmonia axyridis</i> (Harlequin Ladybird)	SJ27124575 (Selected from Interactive Map)	01/11/2014	Anon	20 Clutch		Trefechan, Tainant, Penycae	Reported via e-mail to RSWT Newark.	D1117/001/01	GBNNSIP, INNS	UA
<i>Lamiastrum galeobdolon</i> subsp. <i>argentatum</i> (Variegated Yellow Archangel)	SJ2746	30/07/2011	Shanklin, J.			Tainant	1st for SJ 24?	D1169/004/02	GBNNSIP, INNS, WCA9	NA
<i>Muntiacus reevesi</i> (Chinese Muntjac / Carw Mwntjac)	SJ262463 (Supplied by Original Recorder (Checked))	19/03/2018	J.A. Jackson	1	Dead	Ruabon Mountain	1 dead, mauled by dog/s, edge of moor	D0967/017/01	Bern3, GBNNSIP, INNS	PC
<i>Neovison vison</i> (American Mink / Minc)	SJ274456 (Supplied by Original Recorder)	~ 26/03/2008	J A Jackson	2		Penycae Reservoir	Week up to 26th March	D0967/003/01	GBNNSIP, INNS, WCA9	PC
<i>Neovison vison</i> (American Mink / Minc)	SJ274454 (Supplied by Original Recorder)	19/02/2011	J. A. Jackson	1 Male		Penycae Lower Reservoir	A large male	D0967/004/01	GBNNSIP, INNS, WCA9	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Neovison vison</i> (American Mink / Minc)	SJ273454	09/10/2016	J. A. Jackson	1		Penycae		D0967/012/01	GBNNSIP, INNS, WCA9	UA
<i>Prunus laurocerasus</i> (Cherry Laurel / Coeden Lawrgeirios)	SJ2646	17/09/2011	Shanklin, J.			Tainant		D1169/004/02	GBNNSIP, INNS	NA
<i>Prunus laurocerasus</i> (Cherry Laurel / Coeden Lawrgeirios)	SJ2745	17/09/2011	Shanklin, J.			Penycae	Planted	D1169/004/02	GBNNSIP, INNS	NA
<i>Rhododendron ponticum</i> / Rhododendron Wylt	SJ2745	17/09/2011	Shanklin, J.			Penycae		D1169/004/02	GBNNSIP, INNS, WCA9	NA
<i>Sedum album</i> (White Stonecrop / Briweg Wen)	SJ2646	28/09/2014	Stead, M.O.			Tainant		D1169/004/02	GBNNSIP, INNS	NA

Sites - 10 records	
Sites of Special Scientific Interest intersecting 1000m buffer	Ruabon/Llantysilio Mountains and Minera (482) (877m)
Special Areas of Conservation intersecting 1000m buffer	Berwyn a Mynyddoedd De Clwyd / Berwyn and South Clwyd Mountains (UK0012926) (877m)
Areas of Outstanding Natural Beauty intersecting 1000m buffer	Bryniau Clwyd a Dyffryn Dyfrdwy (86m)
Wildlife Sites intersecting 1000m buffer	Yew Tree Dingle (Wrexham W223) (18m)
Ancient Woodland intersecting 1000m buffer	Ancient Semi Natural Woodland (34264) (785m), Ancient Semi Natural Woodland (31878) (29m), Ancient Semi Natural Woodland (34263) (769m), Ancient Semi Natural Woodland (31879) (227m), Restored Ancient Woodland Site (37170) (549m), Ancient Semi Natural Woodland (29319) (82m)

Sites of Special Scientific Interest		
Site Code	Site Name	Link
482	Ruabon/Llantysilio Mountains and Minera	More Information

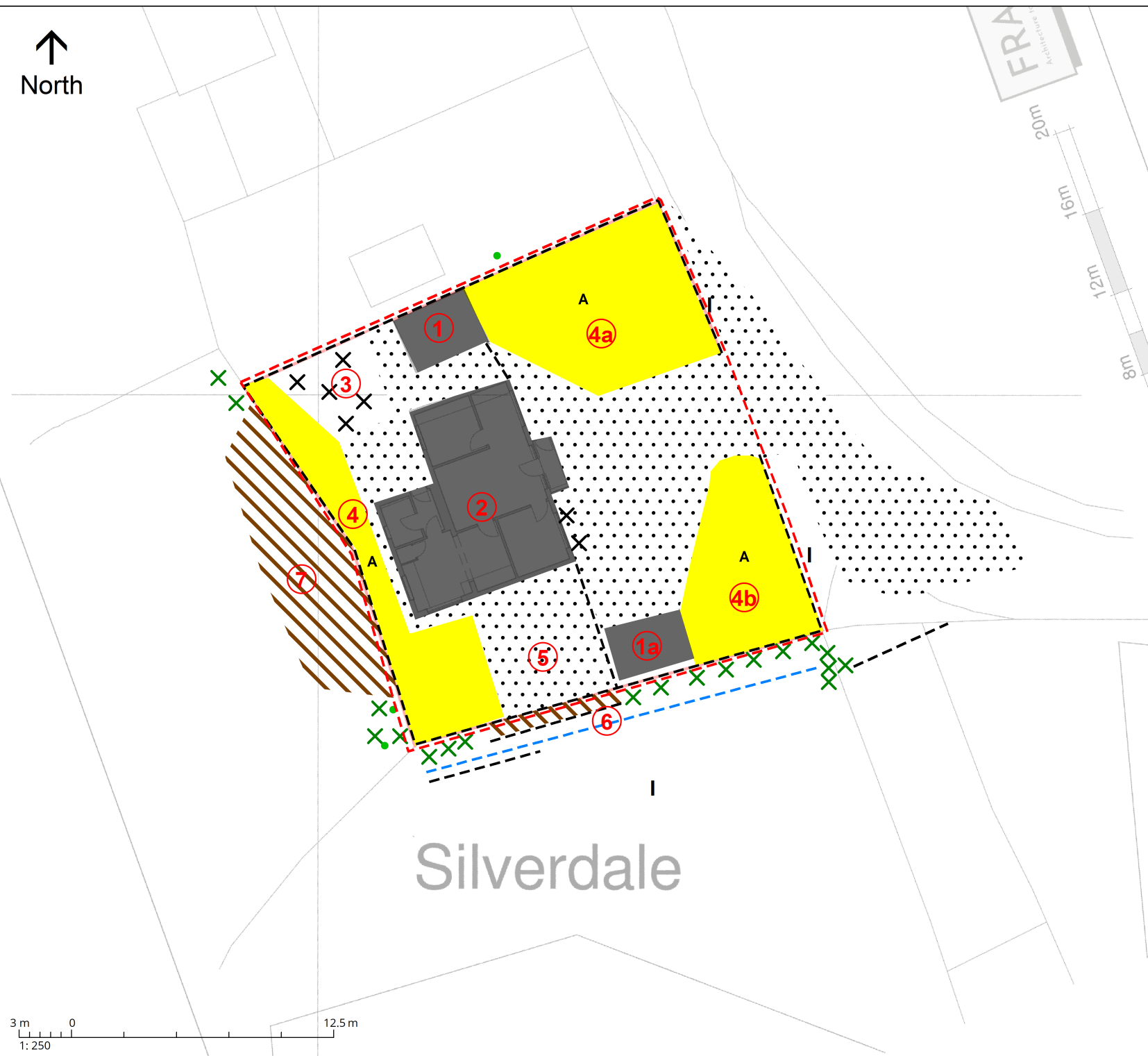
Special Areas of Conservation		
Site Code	Site Name	Link
UK0012926	Berwyn a Mynyddoedd De Clwyd / Berwyn and South Clwyd Mountains	More Information

Areas of Outstanding Natural Beauty		
Site Code	Site Name	Link
	Bryniau Clwyd a Dyffryn Dyfrdwy	More Information

Wildlife Sites		
Site Code	Site Name	Link
Wrexham W223	Yew Tree Dingle	More Information

Phase 1				
Habitat	Distance	Area	Coverage	At Point
B.4 - Improved Grassland	2m - 803m	268.444	85.459%	No
A.1.1.1 - Semi-natural Broad-leaved Woodland	29m - 386m	11.649	3.709%	No
J.1.1 - Arable Land	363m - 994m	3.724	1.185%	No
B.1.2 - Semi-improved Acid Grassland	717m - 934m	3.196	1.017%	No
C.1.1 - Continuous Bracken	691m - 950m	2.629	0.837%	No
B.2.2 - Semi-improved Neutral Grassland	390m - 955m	2.618	0.833%	No
B.1.1 - Unimproved Acid Grassland	878m	2.004	0.638%	No
A.1.2.2 - Plantation Coniferous Woodland	922m	1.658	0.528%	No
E.2.1 - Acid/Neutral Flush	409m - 983m	1.454	0.463%	No
A.1.1.2 - Plantation Broad-leaved Woodland	388m	1.057	0.336%	No
G.1 - Standing Water	901m - 997m	0.861	0.274%	No
A.2.1 - Dense/Continuous Scrub	593m - 974m	0.618	0.197%	No
J.3.6 - Buildings	900m	0.316	0.1%	No
C.3.1 - Tall Ruderal Other	383m - 631m	0.174	0.055%	No
J.3.7	943m	0.058	0.019%	No
J.1.2 - Amenity Grassland	975m	0.041	0.013%	No

↑
North



- Individual broad-leaved tree
- × Scattered scrub
- Tall ruderal
- A** Amenity grassland
- I Improved grassland
- × Ephemeral/ short perennial
- Dry ditch
- Building
- Hard-standing/ bare ground
- Fence
- Survey site boundary
- Target Note

**C470 Proposed Replacement Dwelling,
Silverdale, Tainant, Penycae, Wrexham,
LL14 1UG - Preliminary Ecological
Appraisal**

**Figure 1 - Extended Phase 1 Habitat
Survey**

Date: 13/01/2022

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3 m 0 12.5 m
1: 250