

Ascerta

Landscape, Arboricultural & Ecological Solutions
for the Built Environment

Ecological Appraisal

Commonwood Fishery
Wrexham
LL13 9TF

November 2016

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This document contains sensitive information regarding the location of a badger sett. The report is issued in confidence and on the basis that the material will not enter the public domain.

P.789.16

Ecological Appraisal

Of

**Commonwood Fishery,
Wrexham,
LL13 9TF**

For

Mr and Mrs Paul Dunn

11 November 2016

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EXECUTIVE SUMMARY

An Ecological Appraisal has been carried out on land at Commonwood Fishery, Wrexham, LL13 9TF on 13th October, 2016 by Neil Everett BSc (Hons) Grad CIEEM and Tom Kenwright MSc. The site was revisited on the 24th January, 2018 by Neil Everett BSc (Hons) Grad CIEEM to update the report to support discharge of condition 9 of decision HOLP/2017/0409.

The assessment comprised a desk study and biological records search, as well as a site walkover survey in order to map habitat types. The survey was extended to assess the potential for protected species to use the site. The assessment provides baseline data as to current site conditions and, where appropriate, allows recommendations to be made in respect of further potential work in order to satisfy current wildlife legislation.

The survey area (blue line boundary) comprises a working commercial fishery complete with 9 stocked lakes and one small fry pond. Three development sites are proposed within the blue line boundary. The development sites consist of improved grassland, tall ruderal and species rich hedgerows with tall ruderal understorey and scattered trees.

The January 2018 survey found habitats within the three sites and within the blue line remain the same. There has been some management of the tall ruderal vegetation on site. All the areas of improved grassland were water logged following periods of rain prior to the survey being carried out.

As assessed against the '*Guidelines for Ecological Impact Assessment in the UK and Ireland*' 2nd edition (2016), the habitats range in ecological value from **within the zone of influence** to **county**. Only areas of improved grassland (within the zone of influence) in site one and three and tall ruderal vegetation in site two will be lost to the proposals. Other habitats are proposed for retention, bar a small section of hedgerow that will need removal for access. The loss of these habitats is not considered to have an adverse impact on the local ecology.

The development sites provide habitat for birds, mammals, amphibians and invertebrates. Provided the recommendations below are followed these species will not be adversely affected by the proposals.

The recommendations, if fully implemented, will enable the proposals to meet the requirements of national and local guidance and legislation including the PPW and policies EC4 and EC6 within Wrexham County Borough Wrexham Unitary Development Plan.

EXECUTIVE SUMMARY (continued)

Recommendations

1. Avoiding vegetation removal during the bird breeding season (1 March to 31 August inclusive) or undertake a survey for breeding birds and ensure any active nests found are protected within a suitable buffer zone until they are no longer in use;
2. Compensation for any loss of bird nesting habitat by appropriate management of the retained hedgerow habitat within the site and provision of one 25mm hole bird nest box;
3. Lighting proposals sensitive to the needs of bats, designed to avoid spill into the foraging habitat i.e. hedgerows, particularly those bordering Borrás Wood. Lighting design should follow advice set out in *Bats and lighting in the UK- bats and the built environment series*, (Bat Conservation Trust, 2009);
4. There are no proposals to fell trees. If any trees require felling or pruning work, a day time inspection for bat roost potential may be required. If any features are found, a climbing inspection or night time bat survey, conducted by suitably qualified ecologists, would be required to determine if they are being used by bats as a roost. If a roost is discovered, works to the trees can only be undertaken under relevant licence;
5. Employing Reasonable Avoidance Measures (RAMs) during construction to avoid harm to amphibians. These should include storage of materials on pallets and use of ramps overnight in excavations and appropriate timing of works. These measures are detailed within the Ecological Method Statement (EMS);
6. Use of Reasonable Avoidance Measures (RAMs), as detailed in section 6.2 and the EMS when undertaking construction to avoid harm to badger; and
7. To enhance the site following development it is advised appropriate management of the retained hedgerow habitat within the site be undertaken, along with the provision of a twelve bird boxes (two barn owl boxes (built to the Barn Owl Trust specifications), one kestrel box, three 25mm hole blue tit boxes, three 32mm hole great tit boxes and three open fronted nest boxes), installation of four bat boxes, planting of species that provide a food or shelter resource to wildlife.

1.0 Introduction

Ascerta has been instructed by Mr and Mrs Paul Dunn to carry out an ecological assessment of land at Commonwood Fishery, Wrexham, LL13 9TF (hereafter referred to as the site). The site OS grid reference is SJ 376 531.

Our client seeks planning consent to construct a new fishing lake, eight holiday fishing lodges, twelve holiday fishing pods, a central facilities building and a combined reception / office / manager's lodge. These are to be located in three separate areas within the land ownership (blue line) boundary as marked on drawing P.789.16.03.

The site was visited on 13th October, 2016 by Neil Everett BSc (Hons) Grad CIEEM and Tom Kenwright MSc, when an Ecological Appraisal, which includes an assessment of the potential for protected species to be using the site or surroundings, was carried out in accordance with the *Handbook for Phase 1 Habitat Survey: a Technique for Environmental Audit* (JNCC, 2010). The report was prepared following methods detailed in the CIEEM 'Guidelines for Ecological Impact Assessment in the UK and Ireland' 2nd edition (2016) and 'Guidelines for Ecological Report Writing' (2017).

The site was revisited on the 24th January, 2018 by Neil Everett BSc (Hons) Grad CIEEM to update the report to support discharge of condition 9 of decision HOLP/2017/0409 which states:

"No part of the development shall commence until an updated Ecological Assessment (to include amphibian surveillance) in respect of great crested newts carried out by a qualified ecologist has been submitted to and approved in writing by the Local Planning Authority. The report shall include an Ecological Method Statement demonstrating any measures of protection, compensation and mitigation and demonstrate management of such measures in the long term. The recommendations as approved shall be implemented in strict accordance with timescales to be agreed before any part of the development commences onsite."

This report presents the results of these surveys including evaluation of habitats on site and potential for protected species to be using the site. The report includes recommendations for further actions, where applicable, in order to satisfy current wildlife legislation and to achieve our client's objectives.

2.0 Objectives

Our client's objectives are to ascertain details on any possible restraints or opportunities ecologically for their development proposals.

Our objectives are as follows:

- Identify and evaluate any features of ecological value and the potential of the site to support protected species based on the walkover survey and biological records search;
- Identify designated sites within 2km of the site;
- Review protected species records within 1km of the site;
- Map the habitats within the site using JNCC (2010) methods;
- Provide recommendations for further species-specific surveys and mitigation measures where current legislation requires;
- Provide recommendations that seek to enhance the ecological value of the site where possible; and
- Provide recommendations to assist our clients in achieving their objectives whilst satisfying current wildlife legislation.

3.0 Relevant Legislation

3.1 European Legislation

The following Directives have been adopted by the European Union and provide protection for fauna and flora species of European importance and the habitats which support them:

- Directive 2009/147/EC on the Conservation of Wild Birds (Birds Directive);
- Directive 92/43/EEC of 21 May 1992 on the conservation of natural habitats and of wild fauna and flora (Habitats Directive).

3.2 UK Legislation

The Habitats Directive has been transposed into national legislation through the Conservation of Habitats and Species Regulations 2017 (The Habitats Regulations). This provides for the designation and protection of 'European Sites' (SPAs, SACs and Ramsar Sites, including proposed or potential European Sites) and the protection of 'European Protected Species'.

3.0 Relevant Legislation (continued)

The key UK legislation relating to nature conservation is the Wildlife and Countryside Act 1981 (as amended) (W&C Act). This Act is supplemented, *inter alia*, by provision in the Countryside and Rights of Way (CROW) Act 2000, and the Natural Environment and Rural Communities Act 2006 (NERC Act). Additional species and habitat specific UK legislation includes the Protection of Badgers Act 1992 and the Hedgerow Regulations 1997.

Species and Habitats of Principal Importance

Species and Habitats of Principal Importance are listed under section 41 of the NERC Act and are a material consideration in planning decisions. Planners require relevant, up to date information from ecological surveys in order to assess the effects of a proposed development on biodiversity as Councils have a statutory obligation under section 40 of the NERC Act to consider biodiversity conservation in the determination of planning applications.

The Planning Policy Wales (PPW) 2014 has been published to provide further planning guidance. Wildlife, biodiversity and ecological networks are referred to in Chapter 5 '*Conserving and Improving Natural Heritage and the Coast*'. The PPW states the following:

'When considering any development proposal (including on land allocated for development in a development plan) local planning authorities should consider environmental impact, so as to avoid, wherever possible, adverse effects on the environment. Where other material considerations outweigh the potential adverse environmental effects, authorities should seek to minimise those effects and should, where possible, retain and, where practicable, enhance features of conservation importance.'

Further guidance is provided within *Technical Advice Note 5, Nature Conservation and Planning* (2009).

Background information about the lists of priority habitats and species (Species and Habitats of Principal Importance) can be found within the UK Biodiversity Action Plan (UK BAP). Although this has been succeeded by The '*UK Post-2010 Biodiversity Framework*', many of UK BAP tools are still relevant. BAPs identify habitats and species of nature conservation priority on a UK (UK BAP) and Local (LBAP) scale. Most BAP priority habitats and species have Habitat Action Plans (HAP) and Species Action Plans (SAP) and there are also "grouped action plans" for groups of related species with similar conservation requirements. The LBAP relating to this site is the Denbighshire Local Biodiversity Action Plan.

3.0 Relevant Legislation (continued)

Badgers

The legislation protecting badgers in Wales is the Protection of Badgers Act 1992.

Under the Protection of Badgers Act 1992 it is an offence *inter alia* to:

- Wilfully kill, injure or take a badger, or to attempt to do so;
- Cruelly ill-treat a badger; or
- Intentionally or recklessly interfere with a badger sett by (a) damaging a sett or any part of one; (b) destroying a sett; (c) obstructing access to or any entrance of a sett; (d) causing a dog to enter a sett; or (e) disturbing a badger when it is occupying a sett.

The Badger Act 1992 defines a badger's sett as "*any structure or place which displays signs indicating current use by a badger*"

Bats

All bats and their roosts are protected under the Conservation of Habitats and Species Regulations 2017 and the Wildlife & Countryside Act 1981 (as amended). Several species of bat are also highlighted as Priority Species under the UK Biodiversity Action Plan and within the Denbighshire Local Biodiversity Action Plan.

Under the current legislation as summarised on pages 8 and 9 of the Bat Surveys for Professional Ecologists Good Practice Guidelines – 3rd Edition (2016) it is a criminal offence to:

"To kill, capture, injure or take a wild bat;

- *To damage or destroy a place used by a bat for breeding or resting. All offences of this nature are identified within the Habitats Regulations. This offence is unique in that it can be committed accidentally. No element of intentional, reckless or deliberate action needs to be evidenced;*
- *To disturb bats anywhere (roosts, flight lines or foraging areas) if levels of disturbance can be shown to impair their ability to survive, to breed or reproduce, to rear or nurture their young, to hibernate or migrate or to affect significantly local distribution or abundance;*
- *To intentionally or recklessly disturb a bat, whilst it is occupying a place of shelter or protection;*
- *To intentionally or recklessly obstruct access to any place used by a bat for shelter or protection; and*
- *To be in possession or control of a bat alive or dead (or any part of a bat or anything derived from a bat, although bat droppings are generally considered to be acceptable), or to transport a bat, to sell or exchange a bat or to offer to sell or exchange a bat taken from the wild."*

3.0 Relevant Legislation (continued)

Breeding Birds

Breeding Birds are protected under the Wildlife and Countryside Act which make it an offence to:

- *intentionally kill, injure or take any wild bird or take, damage or destroy the nest of any wild bird whilst it is in use or being built;*
- *intentionally take or destroy the egg of any wild bird;*
- *have in one's possession or control any wild bird, dead or alive, or any part of a wild bird (including eggs), which has been taken in contravention of the Act or the Protection of Birds Act 1954; and*
- *intentionally or recklessly disturb any wild bird listed on Schedule 1 while it is nest building, or at a nest containing eggs or young, or disturb the dependent young of such a bird.*

Great Crested Newt

The great crested newt (*Triturus cristatus*) is fully protected under the Wildlife and Countryside Act, 1981 (as amended) and the Habitats Regulations, 2017. It is also a Species of Principal Importance. The legislation makes it an offence to:

- *Deliberately (or intentionally) kill, injure or capture (or take) a great crested newt, or great crested newt egg or eft;*
- *Deliberately (intentionally) damage or destroy any breeding site or resting place (i.e. pond, refuge, hibernaculum);*
- *Deliberately or recklessly obstruct access to any breeding site or resting place;*
- *Deliberately, intentionally or recklessly disturb a great crested newt, in particular disturbance which is likely to:*
 - *impair the ability of the great crested newt to survive, breed, reproduce, or to rear or nurture young;*
 - *impair the ability of the great crested newt to hibernate or migrate; or significantly affect the local distribution or abundance of great crested newts.*

Invasive Species

It is an offence under Section 14(2) of the Wildlife and Countryside Act 1981 to 'plant or otherwise cause to grow' in the wild any plant in Schedule 9 Part II.

3.0 Relevant Legislation (continued)

Other Aquatic Species

Water vole (*Arvicola amphibious*) are a Species of Principal Importance and also fully protected under Schedule 5 of the Wildlife and Countryside Act 1981 (as amended) which makes it an offence to:

- *intentionally or recklessly damage, destroy or obstruct access to any structure or place used for shelter or protection;*
- *intentionally or recklessly disturb water voles whilst occupying a structure or place used for that purpose;*
- *intentionally kill, injure or take water voles;*
- *possess or control live or dead water voles or derivatives;*
- *sell water voles or offer or expose for sale or transport for sale; and*
- *publish or cause to be published any advertisement which conveys the buying or selling of water voles.*

Otter (*Lutra Lutra*) are similarly protected under the Wildlife and Countryside Act, 1981 (as amended) and have additional protection as a European Species under The Habitats Regulations 2010.

3.3 Local Legislation

The site lies within Wrexham County Borough Council and is covered by Wrexham Unitary Development Plan (adopted February 2005). Environment and Conservation Policies EC4 and EC6 are the policies of relevance here and have been taken into account when preparing this report.

3.0 Relevant Legislation (continued)

The following table provides a summary of the main species within the UK that could be encountered within or within proximity of this development site, together with the legislation that affords them protection.

Table 3.1 Protected Species and the Associated Legislation.

	Species	Legislation
Amphibians	Great crested newt (<i>Triturus cristatus</i>)	Schedule 5, W&C Act 1981 (as amended); Schedule 2, The Habitats Regulations 2017; and Section 41, NERC.
Mammals	Badger (<i>Meles meles</i>)	Protection of Badgers Act 1992.
	All species of bat Otter (<i>Lutra lutra</i>)	Schedule 5, W&C Act 1981 (as amended); Schedule 2, The Habitats Regulations 2017; and Section 41, NERC.
	Water vole (<i>Arvicola amphibious</i>)	Schedule 5, W&C Act 1981 (as amended) and Section 41, NERC.
Birds	All wild birds	Schedule 5, W&C Act 1981 (as amended) and Section 41, NERC.
Reptiles	Adder (<i>Vipera berus</i>) Common lizard (<i>Zootoca vivipara</i>) Grass snake (<i>Natrix natrix</i>) Slow worm (<i>Anguis fragilis</i>)	Schedule 5, W&C Act 1981 (as amended) and Section 41, NERC.

It is a criminal offence to intentionally, wilfully kill, injure or take any of the aforementioned protected species or to destroy or disturb its habitat.

4.0 Survey Methods

The Ecological Appraisal involved the collection and review of data from a desk study and field survey along with assessment of the value of the habitats following CIEEM guidelines.

4.1 Desk Study

A review of the designated sites and habitats within 2km of the site has been undertaken using the Multi-Agency Geographic Information for the Countryside (MAGIC) and the Natural England websites.

A review of UK and Local priority species and habitats known to occur in the region of the site has been undertaken, using the Joint Nature Conservation Committee website and local records from North Wales Environmental Information Service (Cofnod). An updated records search was carried out as part of the report update process. This report has been provided to the client separately due to it containing details of badger sett locations (Appendix 4).

4.2 Field Survey

A walkover survey of the site was conducted on 13th October, 2016 when the habitat types and features of ecological interest were identified and mapped in compliance with the Handbook for Phase 1 Habitat Survey: A Technique for Environmental Audit (JNCC, 2010). The site was revisited on 24th January, 2018 when an update survey was carried out. The survey methods involve the recording and mapping of all habitat types and ecological features present on site, including the identification of the main species present and examination of the potential for any protected species. Habitats were mapped and target notes made for any interesting features.

When conducting the surveys particular focus was concentrated on the following species and habitat features:

- Mammals (badgers, bats, otter and water vole);
- Birds (including species potentially associated with 'European Sites');
- Amphibians and reptiles;
- Invertebrates;
- Hedgerows and boundaries;
- Invasive plant species; and
- Plant communities and trees.

4.0 Survey Methods (Continued)

4.3 Bat Survey Methods

The survey methods followed the guidelines set out by the Bat Conservation Trust Bat Surveys for Professional Ecologists Good Practice Guidelines – 3rd Edition (2016). Habitats, Buildings and Trees were assessed for suitability for use by bats and categorised independently using table 4.1 page 35 within the Bat Conservation Trust Guidelines (Collins, 2016).

Preliminary Ecological Appraisal for Bats

Habitats on site were assessed for their suitability for bats to use them for roosting, commuting and foraging both on the site and surrounding area. Commuting and foraging habitat suitability was categorised **low** to **high**. Commuting and foraging habitat valued as Moderate or above may need further survey effort if lost to the proposals.

Preliminary Roost Assessment Trees

Trees were briefly inspected for Potential Roost Features (PFRs). Features searched for included: Natural or woodpecker holes, cracks/splits in major limbs, loose bark, hollows/cavities, dense epicormic growth, bird and bat boxes. However, not all trees were surveyed as the development site has a number of trees, many of which are likely to be retained within the proposals, including those subject to TPOs.

The trees were assessed for bat roost suitability as per Table 4.1 page 35 of the Bat Conservation Trust Guidelines (Collins, 2016). Trees assigned a suitability of **moderate** or above may require further inspection if they are to be lost to the development.

4.0 Survey Methods (Continued)

Table 4.1: Guidelines for assessing Potential Roost Features (PRFs), commuting and foraging habitat within a proposed development site. Guidelines taken from table 4.1 page 35 of the Bat Conservation Trust Bat Surveys for Professional Ecologists Good Practice Guidelines – 3rd Edition (2016).

Suitability	Roosting Habitats	Commuting and Foraging Habitats
Negligible	<i>Negligible habitat features on site likely to be used by roosting bats.</i>	<i>Negligible habitat features on site likely to be used by commuting or foraging bats.</i>
Low	<i>A structure with one or more potential roost sites that could be used by individual bats opportunistically. However, these potential roost sites do not provide enough space, shelter, protection, appropriate conditions ^a and/or suitable surrounding habitat to be used on a regular basis or by larger numbers of bats (i.e. unlikely to be suitable for maternity or hibernation ^b). A tree of sufficient size and age to contain PRFs but with none seen from the ground or features seen with only very limited roosting potential. ^c</i>	<i>Habitat that could be used by small numbers of commuting bats such as a gappy hedgerow or un vegetated stream, but isolated, i.e. not very well connected to the surrounding landscape by other habitat. Suitable, but isolated habitat that could be used by small numbers of foraging bats such as a lone tree (not in a parkland situation) or a patch of scrub.</i>
Moderate	<i>A structure or tree with one or more potential roost sites that could be used by bats due to their size, shelter, protection, conditions^a and surrounding habitat but unlikely to support a roost of high conservation status (with respect to roost type only – the assessments in this table are made irrespective of species conservation status, which is established after presence is confirmed).</i>	<i>Continuous habitat connected to the wider landscape that could be used by bats for commuting such as lines of trees and scrub or linked back gardens. Habitat that is connected to the wider landscape that could be used by bats for foraging such as trees, scrub, grassland or water.</i>
High	<i>A structure or tree with one or more potential roost sites that are obviously suitable for use by larger numbers of bats on a more regular basis and potentially for longer periods of time due to their size, shelter, protection, conditions ^a and surrounding habitat.</i>	<i>Continuous, high-quality habitat that is well connected to the wider landscape that is likely to be used regularly by commuting bats such as river valleys, streams, hedgerows, lines of trees and woodland edge. High-quality habitat that is well connected to the wider landscape that is likely to be used regularly by foraging bats such as broadleaved woodland, tree-lined watercourses and grazed parkland. Site is close to and connected to known roosts.</i>

^a For example, in terms of temperature, humidity, height above ground level, light levels of disturbance.

^b Evidence from the Netherlands shows mass swarming events of common pipistrelle bats in the autumn followed by mass hibernation in a diverse range of building types in urban environments (Korsten et al., 2015). This phenomenon requires some research in the UK but ecologists should be aware of the potential for larger numbers of this species to be present during the autumn and winter in large buildings in highly urbanised environments.

^c This system of categorisation aligns with BS 8596:2015 Surveying for bats in trees and woodland (BSI,2015).

4.0 Survey Methods (continued)

4.4 Badger Survey Methods

The site was searched for setts and badger field signs including foraging areas, latrines and tracks. Attention was paid to the presence of the following field signs:

- Setts: single holes or a series of holes likely to be interconnected underground;
- Latrines: badgers usually deposit faeces in excavated pits;
- Paths and footprints;
- Scratching posts: at the base of trees;
- Snuffle holes: areas where badgers have searched for insects;
- Day nest: bundles of vegetation where badgers may sleep above ground; and
- Traces of hair.

4.5 Great Crested Newt Habitat Suitability Index (HSI)

The 11 onsite ponds within the blue line boundary were assessed for suitability as great crested newt breeding habitat. The HSI assessment followed the method described by Oldham *et al.* (2000) as updated by ARG UK (2010), involving an assessment of each water body against ten suitability indices:

- Location of the pond within the context of Britain;
- Total surface area of the pond;
- Pond drying (based on both local knowledge and field evidence);
- Water quality;
- Percentage perimeter shaded;
- Presence or absence of waterfowl;
- Presence or absence of fish;
- Number of water bodies situated within 1km;
- Suitability of terrestrial habitat; and
- Percentage macrophyte cover.

The HSI is calculated using an equation producing a single number between 0 and 1. The value provides an indication of whether the water body is likely to support a population of great crested newts. The lower the Index, the less likely the location is to support a breeding population. Ponds are classed as Poor, Below Average, Average, Good or Excellent habitat suitability based on this value.

4.0 Survey Methods (continued)

4.6 Evaluation

Habitats and species on the site were evaluated following the '*Guidelines for Ecological Impact Assessment in the UK and Ireland*' 2nd edition (2016). A geographical frame of reference is assigned to each habitat and species, with International Value being most important, then National, Regional, County, District, Local and lastly, within the immediate Zone of Influence (Zoi) of the proposals only.

Value judgements are based on characteristics that can be used to identify ecological resources or features likely to be important in terms of biodiversity. These include site designations such as SSSIs. For undesignated features, the size, conservation status (locally, nationally or internationally) and the quality of the ecological resource are considered. Ecological resource quality can refer to habitats (for instance if they are particularly diverse, or a good example of a specific habitat type), other features (such as wildlife corridors or mosaics of habitats) or species populations or assemblages.

4.7 Limitations

The site visit was undertaken in mid-October 2016 and late January 2018. Although this is outside the most appropriate time of year for phase 1 habitat surveys, sufficient vegetation was present to enable habitat identification. It is not considered a limit to the conclusions of the report based on the habitats found within the site and the works proposed.

In addition, access was not available to carry out assessment of off-site ponds to evaluate the suitability to be used by great crested newts. These limitations have been taken into account within the report conclusions.

5.0 Survey Results

5.1 Desk Study

Two statutory sites were identified within a 2km radius of the proposed development site and one non-statutory Wildlife Site (WS) was identified within a 1km radius of the proposed development site. Three areas of ancient woodland were identified within a 1km radius of the site.

The following statutory sites were identified within the vicinity of the proposals (with distance and direction from the site):

- Midland Meres and Mosses Phase 2 (Wales) Ramsar (1.2km north west); and
- Vicarage Moss Site of Special Scientific Interest (SSSI) (1.2km north west).

The following non-statutory site was identified within the vicinity of the proposals (with distance and direction from the site):

- Borrass Wood North WS adjacent to the western boundary of the site.

The site lies within a Natural England SSSI Impact Risk Zone. However, the proposals do not trigger the need for consultation with Natural England so the SSSI Impact risk zone is not considered further within this report.

Following a review of records held by the Cofnod, several priority species that have the potential to occur within the vicinity of the proposed development have been identified. These include barn owl, yellowhammer, reed bunting, linnet, badger, great-crested newt and otter (for full record search, see Appendix 4).

A list of key habitats is shown in table 5.1 below and a summary description of key habitats within the survey area is provided in Section 5.2. Notes on the presence or potential presence of protected species are provided in Section 5.3. The Phase 1 Habitat map can be found in Appendix 1. The lists of species recorded during survey are presented in Appendix 2

5.2 Habitat Survey

The site is situated to the east of Wrexham. The development sites are part of a commercial fishery with nine stocked fishing lakes located to the west of Buck Road. The development proposals are set within three separate locations within the main fishery complex. Borrass Wood WS lies adjacent to the fishing complexes south west boundary and the western boundary of one of the redline boundary sites. Grazing and arable fields lay to west, north south and east of the fishing complex blue line boundary.

The wider landscape comprises residential dwellings, arable fields and fields used for grazing, woodland, hedgerows and a sand and gravel pit.

5.0 Survey Results (continued)

The proposals lie within the blue line (land ownership) area and are demarcated by three separate red line boundaries. Each are described below:

Site 1: This comprises an improved grassland field of approximately 2.2 ha, surrounded by species rich hedgerows containing some scattered trees and a tall ruderal understory. A species rich hedgerow bisects the field from east to west through the centre of the site. To the south of the site lies an improved grassland field containing a fishing lake surrounded by scrub and tall ruderal vegetation. Adjacent to the western hedgerow border lays the broadleaf woodland Borrass Woods. To the east of the site lies another fishing lake. The proposed developments for this area is the construction of a fishing lake, twelve holiday fishing pods and eight holiday fishing lodges.

Site 2: This is an area of tall ruderal vegetation of approximately 0.05 ha surrounded by hardstanding and improved grassland. This site is located between three fishing lakes, which lie to the north, east and west of the site. To the south of the site lies a stand of scrub vegetation with scattered trees followed by improved grassland. The proposed development for this site is the construction of a central facilities building.

Site 3: This comprises an area of improved grassland of approximately 0.01ha, situated on the eastern edge of an improved grassland field. To the east of this site lies a species rich hedgerow followed by amenity grassland, hardstanding and buildings. The proposed development for this site is the construction of a combined reception / office / manager's lodge.

The habitats within the three sites and within the blue line remain the same. There has been some management of the tall ruderal vegetation on site by strimming the tall ruderal vegetation. The tall ruderal vegetation within Site 2 has been cut to an approximate height of 15cm. All the areas of improved grassland during the January 2018 were water logged following periods of rain prior to the survey being carried out.

These habitats and sub site locations are presented on plan P.789.16.03B (Appendix 1).

Weather conditions during the survey carried out October 2016 were mild (13°C), initially dry followed by light showers (7/8 cloud cover) with an F1 (Beaufort scale) light air.

Weather conditions during the survey carried out January 2018 were mild (10°C), dry (7/8 cloud cover) with an F4 gusts to F7 (Beaufort scale) moderate breeze gusts to near gale. The conditions during both surveys were appropriate for this type of survey.

5.0 Survey Results (continued)

Table 5.1 details the habitat types recorded on the site.

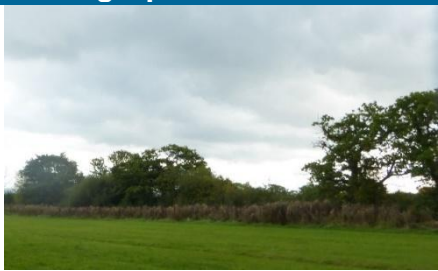
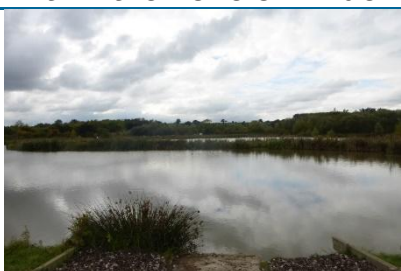
Table 5.1 Habitat Types on the Proposed Development Site.

Description	Photograph
Improved grassland: The majority of Site 1 and Site 3 consist of improved grassland. Species include: perennial rye grass (dominant) cock's foot (frequent), red fescue and Yorkshire fog, (occasional) dandelion, red clover, creeping buttercup and ribwort plantain. This habitat can provide forage for birds and invertebrates, although this is limited as there are few nectar bearing plants present. As the site is regularly mowed, it is unlikely that this habitat will be used by ground nesting birds or great crested newts. This habitat is common in the wider environment and some of it will be retained.	 Improved grassland within site 1.  Improved grassland on which site 3 lies.
Ecological Value	Within the Zone of Influence

5.0 Survey Results (continued)

Description	Photograph
Tall Ruderal: The field margins and hedge understorey of Site 1 have areas of tall ruderal vegetation. Species include common nettle, hogweed, ragwort, broad leaved dock, spear thistle, bramble and field horsetail. Some areas of tall ruderal had been strimmed back at the time of the January 2018 survey. Site 2 is composed entirely of tall ruderal vegetation. Species are similar to those mentioned above with the exception of field horsetail. There is some evidence of willow scrub encroachment here. The tall ruderal vegetation within Site 2 had been strimmed to a height of approximately 15cm at the time of January 2018 survey. This habitat may provide foraging opportunity for bats and birds, small mammals and amphibians, however, it is common within the wider environment and there are many areas of tall ruderal on site.	 Tall ruderal at margins of site 1.  Tall rudral at site 2.  Site 2 during 2018 survey.
Ecological Value	Within the Zone of Influence
Species rich hedge: These form the perimeter of Site 1 and a species rich hedge runs through the centre of the site. Species include: hawthorn, elder, blackthorn, oak ash and alder. This can provide nesting habitat for birds and a foraging resource for birds, invertebrates and amphibians. Species rich hedgerows are a UK Priority habitat. This habitat is common in this area all bar a 5.5m section will be retained within the proposals.	
Ecological Value	County

5.0 Survey Results (continued)

Description	Photograph
Scattered trees: There are occasional mature trees within the hedgerows. Species include: oak, ash and alder. These trees provide nesting habitat for birds and roosting habitat for bats (see section 5.3 below). Oak trees also support a large number of invertebrates and therefore provide a good source of foraging for bird and bats. Some of the scattered trees within the hedgerow borders of Site 1 are mature and have low-moderate bat roost potential. The majority of mature trees will be retained within the proposals.	
Ecological Value	Within the Zone of Influence
Scrub: Bramble scrub extends out from the base of the hedgerow on the western boundary of Site 1. Species include: bramble, great willow herb, creeping thistle, ash and alder. This habitat can provide foraging and shelter for invertebrates, amphibians, birds and mammals. It is, however, common within the wider environment.	
Ecological Value	Within the Zone of Influence
Standing water: There are a total of 9 stocked fishing lakes and 1 small fry pond within the blue line boundary, 4 of these are within 50m of the development sites. These can provide habitat for water voles and breeding habitat for great crested newts. However, the water bodies are heavily stocked with fish and regular disturbance from frequent fishing activity. The water bodies do not lie within either of the three development boundaries and will not be directly affected by the proposals. Ephemeral standing water was present during January 2018 survey following an extended wet period within Site 1. Ditches at the base of the hedge which had been previously dry had running water within them during the January 2018 survey. The water bodies have been assessed using Great Crested Newt (GCN) Habitat Suitability Index (HSI) (see section 5.3).	  Water logged area of site1
Ecological Value	Within the zone of Influence

5.0 Survey Results (continued)

5.3 Protected and Invasive Species

Table 5.2: Protected and Invasive Species

Species Results	Evaluation and Recommendations
Amphibians: The records search returned two records for common frog and one record for common toad within 1km the site. The records are as follows: common frog approximately 456m west and 1000m west the records date from 1993 and 2003 respectively. The October 2016 records search returned 10 records for great crested newt (GCN) within 2km of the blue line boundary. All the records date from 1993. The closest record to the site is 360m south west. The January 2018 records search returned nine records for great crested newt (GCN) within 2km of a central point within the site. Eight of the records date from 1993. One record dates from April 2016 for a single female GCN within pond 11 which is in the blue line boundary. The record is located 362m north-west of Site 1 and was not returned in the October 2016 record search. There are 11 water bodies within the blue line boundary of the site. Ten of the water bodies are stocked with fish. One was dry at the time of October survey (Pond 11, with the April 2016 GCN record) but had a puddle approximately 0.5m² x 2cm deep during the January 2018 survey. The final pond was small and not stocked with fish. There are 27 ponds within 500m of the red line boundary of the site. Sixteen ponds outside the blue line boundary of the site and have not been assessed due to access restrictions. The remaining 11 ponds are within blue line boundary of the site (location of ponds and pond number are shown on drawing P.789.16.03 Appendix 1).	The majority of the ponds within the blue line boundary of the site are heavily stocked with fish and have a poor HSI score. The pond assessed as having an average HSI score and pond 11 (approximately 362m north-west) which has a single female newt record from April 2106 are separated from the redline boundary areas by improved grassland which is maintained by regular mowing. There will be a loss of a small amount of tall ruderal vegetation (approximately 546m²) and hedgerow (approximately 5.5m) that offer GCN foraging and refuge potential. However, there is better quality foraging and refuge habitat for GCN within the remainder of the site and in the woodland adjacent to the site to the south west. This loss of habitat on site is not considered to adversely impact on habitat availability for great crested newts, should they be present in the wider area. Reasonable Avoidance Measures (RAMs) are detailed within the Ecological Method Statement to ensure GCN will not be harmed as a result of the proposals. Work on the hedgerows within Site 1 marked as G4 and G6 (Ascerta Tree Constraint and Draft Protection Drawing P.798.16.02) and the area of tall ruderal at the location of Site 2, will be carried out at a suitable time of year and under supervision of a suitably qualified ecologist. Any areas of suitable great crested newt habitat will be searched for GCN by a suitably qualified and licensed ecologist immediately prior to commencement.

5.0 Survey Results (continued)

Species Results	Evaluation and Recommendations
Amphibians (continued) Two ponds are adjacent Site 1. Three ponds lay within 40m of Site 2 and three ponds lay within 80m of Site 3. The ponds have limited connectivity to the site via the species rich hedges along the southern boundary and the introduced species planting on the eastern boundary. All the ponds within the blue line boundary have limited connectivity to the sites via the species poor hedges that run through the site and the open improved grassland areas. Offsite ponds to the south west have limited connectivity by grazed pasture and Borrass Woods. In terms of the HSI score, only one pond (Pond 1) was assessed as average suitability for supporting a GCN population. Nine ponds were assessed as poor, (unlikely to support a viable population of GCN). Pond 11 (shown on drawing P.789.16.03 Appendix 1) had dried up and was not present during the October 2016 and had a small ephemeral puddle in it during the January 2018 survey as previously described. Pond 12 could not be accessed. The results are summarised in table 5.3 with the full results in Appendix 3.	Other RAMs include informing staff the precautions to take in the unlikely event a GCN is found on site. Suitable habitat enhancement for GCN is included within the proposals. This involves leaving rough grassland strips adjacent to the retained hedgerows. Construction works can create suitable reptile and amphibian terrestrial habitat in the form of rubble piles and stored material. To discourage these species during construction, all materials will be stored off the ground on pallets. In additions any excavations should have ramps (planks of wood) fitted overnight to provide an escape route to species that may they fall into excavations. The above RAMs are detailed within an Ecological Method Statement (EMS). Provided the above measures are taken and as there will be very limited loss of suitable GCN foraging habitat, it is unlikely that the works proposed will be detrimental to the maintenance of any GCN population in the area at a favourable conservation status in their natural range.
Evaluation	County. Employ Reasonable Avoidance Measures (RAMs) during construction to avoid harm to amphibians as detailed within the Ecological Method Statement (EMS);

5.0 Survey Results (continued)

Species Results	Evaluation and Recommendations
Badger: Four records of badger were returned within 1km of the site from the October 2016 records search. The most recent of these records is from 2014 and is of a single adult badger, approximately 500m north of the site. The other three records are of badger sets, one from 1990 and the other two from 2003. The January 2018 records search returned one further record for a four-hole badger sett approximately 788m north-west. The record dates for 2015 but did not show up in the 2016 records search. The closest record of badger to the site is of a badger set approximately 150m north of the site, dated from 2003. Mammal tracks were noted passing through the hedgerow on the north west corner of the blue line boundary. However, no signs of badger were observed within any of the three development sites. The three development sites provide limited sett building habitat as they are all flat and partially water logged.	There is habitat on site which could be used by badgers for foraging; however, no sign of badger activity was noted within the red line development site areas. The proposed development sites may be used opportunistically by badgers as they forage in the surrounding area. Reasonable Avoidance Measures (RAMs) will be employed in respect to badgers during the works as detailed within the Ecological Method Statement. These include: • Covering all steep sided excavations or having ramps in place to prevent mammals, including badgers, getting trapped; • Fencing off Spoil heaps and having them in locations where badgers are unlikely to create new setts; and • Capping off any exposed pipes off to prevent badgers accessing them.
Evaluation	Local. The use of RAMs to avoid harm to badger that may forage across the site.

5.0 Survey Results (continued)

Species Results	Evaluation and Recommendations
Bats: Two bat records were returned from within 2km of the site. One is a record from 1987 of an unspecified long-eared bat species approximately 1500m north-east of the site. The second record is from 2005 of an unspecified bat species approximately 950m north of the site. No records of bat roosts were returned from within 2km of the site. <u>Preliminary Ecological Appraisal for Bats</u> The habitats within the development boundaries including the hedgerows and scattered trees provide suitable bat roost, foraging and commuting habitat. The lakes within the blue line boundary provide suitable bat foraging habitat. <u>Preliminary Roost Assessment Trees</u> A detailed assessment of all trees was not undertaken. However, some of the mature trees at the borders and within the hedgerow boundaries of the Site 1 have low-moderate bat roost potential. All trees will be retained within the proposals.  Mature oak tree on the east border of Site 1 that may have bat roost features.	<u>Habitat</u> The habitats within development Site 1 are considered to provide moderate-high commuting and foraging habitat. The habitats within development Site 2 are considered to provide moderate bat commuting and foraging habitat. The habitats within Site 3 are considered to provide low bat foraging, and commuting habitat. The low number of records of bats returned by the records search is likely to be down to the lack of survey effort in relation to bats. Bats are likely to be present in the area. It is considered unlikely that bats will be affected by the development proposals as most of the hedgerows and scattered trees within development Site 1 will be retained within the proposals. <u>Trees</u> All the trees within the blue line boundary have not been assessed in detail. However, some trees have been assessed as having low-moderate bat roost potential. All trees will be retained within the proposals. If any trees require felling or pruning work, further day time inspections for bat roost potential would be required. If any suitable features are found, a climbing inspection or further night time surveys should be undertaken to assess if the trees are being used by bats as a roost. If a roost is discovered, works to the trees can only be undertaken under relevant licence. If night time surveys are required these would need to be undertaken between April and September when bats are active.

5.0 Survey Results (continued)

Species Results	Evaluation and Recommendations
Bats (continued)	To enable bats continued use of retained commuting and foraging habitats on the site, it is advised that lighting is kept to a minimum and designed to avoid spill into the foraging habitat i.e. hedgerows, particularly those bordering Borrass Wood. Lighting design should follow advice set out in <i>Bats and lighting in the UK- bats and the built environment series</i> , (Bat Conservation Trust, 2009).
Evaluation	County
Breeding Birds: No records of protected or notable birds were returned for the site. The nearest record was for multiple bird species including barn owl, kestrel, fieldfare, Canada goose and curlew. This record dates from 2008 and is approximately 150m north of the site. The most recent record is of a short-eared owl from 2016, approximately 250m east of the site. Other bird records including black-tailed godwit, common sandpiper and curlew were returned. Full details are included within Appendix 4. The development sites provide limited nesting and foraging habitat for these species, as the improved grassland is managed and regularly mown. The habitats on site offer nesting opportunities for other, more common, bird species within trees and scrub. Birds recorded during the site visit include mallard, magpie, coot, a pair of kestrel and grey wagtail. A buzzard was also heard calling.	There will be habitat loss for breeding and foraging birds as a result of the proposals. However, this will be limited as all trees and all bar 5.5m of hedgerow within the development sites are to be retained. The improved grassland is regularly mowed and provided very limited suitability for ground nesting birds due to levels of disturbance. Any nesting habitat lost can be compensated for with bird box provision. In order to avoid harm to nesting birds, vegetation should not be cleared during the bird breeding season (between 1 March and 31 August). If vegetation needs to be cleared during this period, a nesting bird survey will be required, conducted by a suitably qualified ecologist, before works begin. If any active nests are observed during the survey, exclusion zones will be set up and works will not occur in these areas until nesting is complete. This is covered within the Ecological Method Statement.
Ecological Value	Within the Zone of Influence

5.0 Survey Results (continued)

Species Results	Evaluation and Recommendations
Other species: No records of water vole were returned for the site or the wider area surrounding the site. No records of otter were returned for the site and the only record of otter within 1km of the site is the record of a dead otter on the Wrexham road approximately 940m south of the site. No records of polecat were returned for the site. Only one record of polecat was returned from within 1km of the site. The record of a dead polecat on the Wrexham road from 2015, approximately 940m south of the site. Except for the fishing lakes and a few small ponds, there are no water bodies within the development site boundaries. It is unlikely that water voles are using the fishing lakes due to disturbance and lack of connectivity. It is considered that these species will not be using the site.	No aquatic habitats exist on the development site and it is considered that water vole, and otter are not using the site. If water voles are using the fishing lakes, they will not be affected by works as the development sites all lie outside an 8m buffer zone of the lakes. Further survey work in relation to water vole and otter is not considered necessary to support this planning application. It is also considered that polecat is not using the site as the habitats on the site are not key polecat habitat (such as woodland, river banks or stone walls) and the nearest record is over 940m away.
Evaluation	N/A as unlikely to be present.
Invasive Species: No invasive species were noted within the redline boundary sites during the survey. However, Canadian Waterweed was noted within pond 8.	A new pond is proposed. Measures will be taken during construction to ensure no aquatic invasive species enter the pond, including Canadian Waterweed. If Canadian Waterweed is found in the new pond in the future, it should be treated using methods currently employed in other ponds on the site to prevent it spreading into the wild.
Evaluation	N/A

5.0 Survey Results (continued)

Table 5.3: Pond descriptions including HSI score and Category for ponds surveyed within blue line boundary of application site. Pond locations are shown on drawing P.789.16.03B Appendix 1.

Pond Number	Description	Photograph	HSI Score	Category
1	A pond (approximately 14m ²) lies approximately 309m north west of Site 1 within improved grassland with tall ruderal vegetation. The west end of the pond is dominated by bulrush.		0.65	Average
2	The pond lies approximately 193m west of Site 1 and covers an area of approximately 536m ² . The pond is surrounded by trees some of which overhang the water around the periphery of the pond. Species include: goat willow and alder. At the time of survey, the pond had sparse marginal vegetation. The pond is stocked with fish and is used as a duck flight pond with a number of duck present.		0.36	Poor
3	The pond lies approximately 9m south of Site 1 and covers an area of approximately 841m ² . The pond is set within trees. Tall ruderal vegetation overhangs the water along sections of the ponds margins. Very limited aquatic vegetation was noted, however, much of the vegetation had died back. The pond is stocked with fish and water fowl were noted on the pond.		0.35	Poor

5.0 Survey Results (continued)

Pond Number	Description	Photograph	HSI Score	Category
4	The pond lies approximately 10m west of site 1, 85m of Site 2 and 13m west of Site 3 and covers an area of approximately 4144m ² . The pond is a stocked fishing pond. No aquatic vegetation was noted. Bank side vegetation includes yellow iris, bulrush and pendulous sedge.		0.32	Poor
5	The pond lies approximately 98m west of Site 1, 49m north of Site 2 and 27m west of Site 3 and covers an area of approximately 4447m ² . The pond is a stocked fishing pond. No aquatic vegetation was noted. Bank side vegetation includes yellow iris, bulrush, pendulous sedge and tall ruderal vegetation.		0.32	Poor
6	The pond lies approximately 67m south west of Site 1 and 49m north of Site 2 32m north of Site 3 and covers an area of approximately 6775m ² . The pond is a stocked fishing pond. No aquatic vegetation was noted. Bank side vegetation includes bulrush, pendulous sedge and tall ruderal vegetation.		0.24	Poor

5.0 Survey Results (continued)

Pond Number	Description	Photograph	HSI Score	Category
7	The pond lies approximately 84m north of Site 1 and 88m north of Site 2 and covers an area of approximately 9548m ² . The pond is a stocked fishing pond. No aquatic vegetation was noted. Bank side vegetation includes bulrush, pendulous sedge and tall ruderal vegetation.		0.22	Poor
8	The pond lies approximately 62m north of Site 1 and 96 m north west of Site 2 and covers an area of approximately 11542m ² . The pond is a stocked fishing pond. Bank side vegetation includes bulrush, pendulous sedge and tall ruderal vegetation. Canadian Waterweed was noted within the pond.		0.23	Poor
9	The pond lies approximately 164m north of Site 1 and 182m north of Site 2 and covers an area of approximately 1294m ² . The pond is a stocked fishing pond. The pond is connected to pond 7 by a water filled ditch. Bank side vegetation includes: oak and willow sp. bulrush, pendulous sedge and tall ruderal vegetation. Aquatic vegetation was noted below the water surface.		0.34	Poor

5.0 Survey Results and Evaluation (continued)

Pond Number	Description	Photograph	HSI Score	Category
9	The pond lies approximately 164m north of Site 1 and 182m north of Site 2 and covers an area of approximately 1294m ² . The pond is a stocked fishing pond. The pond is connected to pond 7 by a water filled ditch. Bank side vegetation includes: oak and willow sp. bulrush, pendulous sedge and tall ruderal vegetation. Aquatic vegetation was noted below the water surface.		0.34	Poor
10	The pond lies approximately 107m east of site and 276m north of Site 3 and covers an area of approximately 2218m ² . The pond is stocked fishing pond. No aquatic vegetation was noted. Bank side vegetation includes great willow herb, bulrush and pendulous sedge		0.34	Poor

5.0 Survey Results and Evaluation (continued)

Pond Number	Description	Photograph	HSI Score	Category
11	The pond was dry at the time of the survey. The pond had a shallow puddle approximately 0.5m² x 2cm deep, at the time of January 2018 survey. A record of a GCN in this area exists from April 2016.	 Condition of pond during the October 2016 survey.  Condition of pond during the January 2018 survey.	Dry	N/A
12	This pond was not surveyed as access to the site was not gained.	None available	Pond not surveyed	N/A

6.0 Assessment & Recommendations

6.1 Designated Sites and Habitats

It is considered that the statutory and non-statutory sites located within the vicinity of the site will not be affected by the proposals due to the distance of the statutory sites from the proposals (1.2km north west of the site). The majority of the habitats on site will be retained and the proposals are for recreational use of the immediate area.

The habitats within the three development sites have been assessed as having an ecological value of **within the zone of influence**, with the exception of the species rich hedgerows which have a **county** value. Some of the improved grassland and most of the tall ruderal (Zone of Influence value) will be lost to the proposals but the majority of other habitats are proposed for retention. A small length of hedgerow may need to be removed to accommodate access. If a section of hedgerow is to be removed an important hedgerow assessment would be required, as the hedgerow meets the important hedgerow criteria. All scattered trees are likely to be retained. If any trees are to be lost, they may need further assessment in relation to bats as discussed in section 5.3 above. Overall the proposals are unlikely to adversely affect the ecological value of the area.

6.2 Protected and Invasive Species

Further works to be taken in relation to protected species is presented in Section 5.3 above.

Enhancements

In order to meet requirements for biodiversity protection and enhancement outlined within the PPW, it is recommended that ecological enhancements are included where possible. These include:

- Appropriate management of the retained hedgerow and tree habitats within the site;
- Installation of twelve bird boxes (two barn owl boxes (built to the Barn Owl Trust specifications), one kestrel box, three 25mm hole blue tit boxes, three 32mm hole great tit boxes and three open fronted nest boxes);
- Installation of four bat boxes; and
- Planting of species that provide a food or shelter resource to wildlife.

7.0 Conclusions

It is considered that there would be very limited impact on the local ecology as a result of the proposals, provided the recommendations detailed above are followed. In summary these include:

1. Avoiding vegetation removal during the bird breeding season (1 March to 31 August inclusive) or undertake a survey for breeding birds and ensure any active nests found are protected within a suitable buffer zone until they are no longer in use;
2. Compensation for any loss of bird nesting habitat by appropriate management of the retained hedgerow habitat within the site and provision of one 25mm hole bird nest box;
3. Lighting proposals sensitive to the needs of bats, designed to avoid spill into the foraging habitat i.e. hedgerows, particularly those bordering Borrass Wood. Lighting design should follow advice set out in *Bats and lighting in the UK- bats and the built environment series*, (Bat Conservation Trust, 2009);
4. There are no proposals to fell trees. If any trees require felling or pruning work a day time inspection for bat roost potential may be required. If any features are found, a climbing inspection or night time bat survey, conducted by suitably qualified ecologists, would be required to determine if they are being used by bats as a roost. If a roost is discovered, works to the trees can only be undertaken under relevant licence;
5. Employing Reasonable Avoidance Measures (RAMs) during construction to avoid harm to amphibians. These should include storage of materials on pallets and use of ramps overnight in excavations and appropriate timing of works. These measures are detailed within the Ecological Method Statement (EMS);
6. Use of Reasonable Avoidance Measures (RAMs), as detailed in section 6.2 and the EMS when undertaking construction to avoid harm to badger; and
7. To enhance the site following development it is advised appropriate management of the retained hedgerow habitat within the site be undertaken, along with the provision of a twelve bird boxes (two barn owl boxes (built to the Barn Owl Trust specifications), one kestrel box, three 25mm hole blue tit boxes, three 32mm hole great tit boxes and three open fronted nest boxes), installation of four bat boxes, planting of species that provide a food or shelter resource to wildlife.

The above recommendations, if fully implemented, will enable the proposals to meet the requirements of national and local guidance and legislation including the PPW and policies EC4 and EC6 within Wrexham County Borough Wrexham Unitary Development Plan.

8.0 References

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Appendix 1



DO NOT SCALE

ALL COORDINATES RELATED TO LOCAL GRID LOCATED TO OS NG BY BEST FIT TO DETAIL, EXTRACTED FROM OS DIGITAL DATA.

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KEY

Development site boundary

Site ownership boundary

Scrub

A

Amenity grassland

Scattered trees

P1

Pond

Dried pond

Species rich hedgerow

Tall ruderal vegetation

I

Improved grassland

Hard standing

Site 1

Development site number

B	General updates	24/01/18
A	General updates	06/11/17
REV	DESCRIPTION	DATE

Ascerta

Landscape | Trees | Ecology

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CLIENT:

Mr and Mrs Paul Dunn

PROJECT:

Commonwood Fishery, Wrexham

DRAWING TITLE:

Phase One Habitat Survey

SCALE:

1:1000@A1

DATE:

14/10/2016

DRAWN BY:

CP

CHKD BY:

NE

DRAWING NO.:

P.789.16.03

REV:

B

S:\All Jobs\789.16 Commonwood Fishery, Wrexham LL13 9TF\Drawings\789.16.03B Phase One Habitat Survey_revB

Appendix 2

Species List

English Name	Scientific Name
Alder	<i>Alnus glutinosa</i>
Ash	<i>Fraxinus excelsior</i>
Blackthorn	<i>Prunus spinosa</i>
Bramble	<i>Rubus fruticosus agg</i>
Broadleaved dock	<i>Rumex obtusifolius</i>
Bull Rush sp.	<i>Cyperaceae sp.</i>
Cock's-foot	<i>Dactylis glomerata</i>
Common Knapweed	<i>Centaurea nigra</i>
Creeping bent-grass	<i>Agrostis spp.</i>
Creeping buttercup	<i>Ranunculus repens</i>
Creeping thistle	<i>Cirsium arvense</i>
Dandelion	<i>Taraxacum officinale</i>
Elder	<i>Sambucus nigra</i>
Goat willow	<i>Salix caprea</i>
Greater willowherb	<i>Epilobium hirsutum</i>
Hawthorn	<i>Crataegus monogyna</i>
Hogweed	<i>Heracleum sphondylium</i>
Marsh horsetail	<i>Equisetum palustre</i>
Meadow grass	<i>Poa sp.</i>
Oak	<i>Quercus robur</i>
Pendulous sedge	<i>Carex pendula</i>
Perennial ryegrass	<i>Lolium perenne</i>
Prickly sow thistle	<i>Sonchus asper</i>
Ragwort	<i>Senecio jacobaea / Jacobaea vulgaris</i>
Red clover	<i>Trifolium pratense</i>
Red fescue	<i>Festuca rubra</i>
Ribwort plantain	<i>Plantago lanceolata</i>
Sedge sp.	<i>Carex sp.</i>
Spear thistle	<i>Cirsium vulgare</i>
Stinging nettle	<i>Urtica dioica</i>
Timothy	<i>Phleum pratense</i>
Vetch	<i>Vicia sp.</i>
Yorkshire fog	<i>Holcus lanatus</i>

Animal Species List

English Name	Scientific Name
Buzzard	<i>Buteo buteo</i>
Common frog	<i>Rana temporaria</i>
Common carder bee	<i>Bombus Pascuorum</i>
Coot	<i>Fulica atra</i>
Grey wagtail	<i>Motacilla cinerea</i>
Kestrel	<i>Falco tinnunculus</i>
Magpie	<i>Pica pica</i>
Mallard	<i>Anas platyrhynchos</i>

Appendix 3

Great Orested wetland suitability index

Pond Number	1	2	3	4	5	6	7	8	9	10
Geographic location.										
The three Geographic regions are based on the known distribution of the species and are defined as Optimal, Marginal or Unsuitable.	optimal	optimal	optimal	optimal	optimal	optimal	optimal	optimal	optimal	optimal
	1	1	1	1	1	1	1	1	1	1
Pond Area										
The optimum size is 400-800m ² with ponds smaller or larger than this the HSI score is reduced.	14	536	841	4144	4447	6775	9548	11542	1294	2218
	0.03	1.00	0.98	0.45	0.40	0.03	0.01	0.01	0.90	0.76
Pond permanence										
The optimum is that a pond rarely dries rather than never drying. One of four categories based on the number of likely dry years in ten is assigned.	Sometimes	Never	Never	Never	Never	Never	Never	Never	Never	Never
	0.50	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Water quality										
Although adults are relatively tolerant of pollution, the gill-breathing larvae are not. As such the score increases with water quality and one of four categories of oxygenation and obvious pollution based on invertebrate indicators are assigned.	poor	moderate	moderate	moderate	moderate	moderate	moderate	moderate	moderate	moderate
	0.33	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67
Pond shading										
Perimeter shading of the pond can increase the nutrient level and enhance productivity, however excess shading can cause an increase in organic content and cause eutrophication. The optimum amount of shade is 0-60% with the HSI score decreasing beyond this.	60	10	10	10	10	10	10	10	20	10
	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Presence of waterfowl										
High densities of waterfowl can damage aquatic vegetation and are detrimental to water quality owing to nutrient enrichment. One of four categories is assigned depending on the impact of waterfowl.	absent	major	major	major	major	major	major	major	major	major
	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Presence of fish										
Some fish predate and/or compete with new larvae. One of four categories is assigned depending on likelihood and species present: Major, Minor, Possible or Absent.	absent	major	major	major	major	major	major	major	major	major
	1.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Local pond density										
GCN populations are not considered to be viable with a pond density of less than 0.7 ponds per km ² . The number of ponds within 1km are recorded.	36	28	36	34	32	34	36	36	34	35
	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Local Abundant suitable Terrestrial habitat										
GCNs are also reliant on good terrestrial habitat. Four categories are assigned depending on the availability and extent of suitable terrestrial habitat: good, moderate, poor or none.	Good	Good	moderate	moderate	moderate	moderate	moderate	moderate	moderate	moderate
	1.00	1.00	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67
Macrophyte aquatic plant cover										
Macrophytes provide cover, food for prey and egg laying material, although large density restricts vital GCN behaviour e.g. Courtship. 70-80% macrophyte cover is optimal with the HSI score falling above and below this amount.	60	10	10	10	10	10	10	30	10	10
	0.91	0.41	0.41	0.41	0.41	0.41	0.41	0.61	0.41	0.41
Overall score	0.65	0.36	0.35	0.32	0.32	0.24	0.22	0.23	0.34	0.34
National England classification	Average	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor

Category on scores

<0.5 = poor

0.5 – 0.59 = below average

0.6 – 0.69 = average

0.7 – 0.79 = good

> 0.8 = excellent

Appendix 4

Cofnod Environmental Information Search (PUBLIC VERSION)

Our Reference	E06274
Your Reference	789.16
Requested By	Ascerta
Data Users	Neil Everett, Ecologist, Ascerta Dr Rosalind King, Ecologist, Ascerta
Search Date	22/01/2018
Expiry Date	22/01/2019
Search Type	Chargeable

Important Issues

- Use of the data is governed by Cofnod's [Terms & Conditions](#).
- Data marked as confidential or sensitive must not be released into the public domain, with the exception of the Public Version of the PDF report, which has had sensitive information removed or restricted.
- You should not amend any part of the downloaded records.
- Unless otherwise agreed, use of the data is valid until the Expiry Date (22/01/2019).
- The data was generated on the Search Date (22/01/2018) and is not live.
- The Dataset ID associated with each record can be used to find information about the provenance of the data. See the [Data We Hold](#) page on our website for more information.
- Quality Assurance (QA) levels are given for each record. For further information see our Data Quality Policy, available from our [website](#).
- Please [contact us](#) if you have any questions about using the data or wish to add further Data Users.

Notes

- Cofnod uses a search system which optionally reports species (usually high priority or protected species) within a specified search radius or buffer. Where required a search will also include high priority 'Mobile Species', such as bats, otters, amphibians and certain invertebrates, which lie outside the specified search radius. These species are highlighted on the report with **(Mobile)** next to the distance. They have been selected as 'Mobile Species' as their territory (possibly due to foraging activity or life cycle) could intersect with the search radius.
- Records with 4 figure grid references are displayed as 1km squares on any relevant maps. They are highlighted with **(1km)** next to the distance.
- Records shown in **bold** typeface are sensitive species records, and some details have been restricted in this public version of the report.

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 cannot be released into the Public Domain.
Species Name	Name of the taxon (usually identified to species level) using the binomial system.
Grid Reference	Full grid reference based on the Ordnance Survey grid system. For any Sensitive Species Records, this cannot be released into the Public Domain.
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 Cofnod directly.
Abundance	Number of individuals recorded. Where not specified it is assumed that at least one was present.
Record Type	The recording methods used (only where specified).
Site Name	The site name (if one has been supplied). For any Sensitive Species Records, this cannot be released into the Public Domain.
Comments	Any additional notes about the sighting, including any information on habitat or substrate if this is available. 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.
QA	Summarised record Verification Level. The following codes are used: 1 - Unassessed, 2 - Unconfirmed, 3 - Considered Correct by Cofnod, 4 - Considered Correct by Expert. See our Data Quality policy, available from the Cofnod website for more details.

Abbreviations

ANG - Anglesey County Council Local Biodiversity Action Plan, **AONB** - Area of Outstanding Natural Beauty, **AW** - Ancient Woodland, **BAP** - UK Biodiversity Action Plan, **BDir1** - EU Birds Directive Annexe 1, **BDir2.1** - EU Birds Directive Annexe 2.1, **BDir2.2** - EU Birds Directive Annexe 2.2, **Bern** - Bern Convention on the Conservation of European Wildlife and Natural Habitats, **Bonn** - Bonn Convention on the Conservation of Migratory Species of Wild Animals, **CITES** - Convention on International Trade in Endangered Species of Wild Fauna and Flora, **CON** - Conwy County Borough Council Local Biodiversity Action Plan, **DEN** - Denbighshire County Council Local Biodiversity Action Plan, **EPS** - European Protected Species, **FLI** - Flintshire County Council Local Biodiversity Action Plan, **GWY** - Gwynedd County Council Local Biodiversity Action Plan, **HDir** - EU Habitats Directive, **INNS** - Invasive Non-native Species, **LBAP** - Local Biodiversity Action Plan species for the listed area, **LI** - Locally Important within the listed area, **LNR** - Local Nature Reserve, **MNR** - Marine Nature Reserve, **NNR** - National Nature Reserve, **NRW** - Natural Resources Wales Priority Species, **NWWT** - North Wales Wildlife Trust Reserve, **PBA** - Protection of Badgers Act 1992, **RD1(UK)** - Red Data Book listing for the UK based on IUCN guidelines, **RD1(Wales)** - Red Data Book listing for Wales based on IUCN guidelines, **RD2(UK)** - Red Data Book listing for the UK not based on IUCN guidelines, **RIGS** - Regionally Important Geodiversity Site, **S42** - Natural Environment and Rural Communities Act 2006 (Section 42), **SAC** - Special Area of Conservation, **SNP** - Snowdonia National Park Local Biodiversity Action Plan, **SPA** - Special Protection Area, **SSSI** - Site of Special Scientific Interest, **UKBA** - RSPB UK Birds Amber List (not based on IUCN criteria), **UKBR** - RSPB UK Birds Red List (not based on IUCN criteria), **VC48** - Locally Important within Vice-County 48: Meirionethshire, **VC49** - Locally Important within Vice-County 49: Caernarfonshire, **VC50** - Locally Important within Vice-County 50: Denbighshire, **VC51** - Locally Important within Vice-County 51: Flintshire, **VC52** - Locally Important within Vice-County 52: Anglesey, **WBA** - RSPB Welsh Birds Amber List (not based on IUCN criteria), **WBR** - RSPB Welsh Birds 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 at certain times), **WCA5** - Wildlife & Countryside Act 1981 Schedule 5 (Animals which are protected from killing and taking, possession, disturbance and sale), **WCA8** - Wildlife & Countryside Act 1981 Schedule 8 (Plants which are protected), **WCA9** - Wildlife & Countryside Act 1981 Schedule 9 (Non-native animals and plants which are established in the wild), **WRE** - Wrexham County Council Local Biodiversity Action Plan, **WS** - Wildlife Site, **WVP** - IUCN Threat Listing of Welsh Vascular Plants

Contact Us

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Search Location	Grid Reference
Commonwood Fishery	SJ376531

Bees, Wasps, Ants and Sawflies										
Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	QA
<i>Bombus (Thoracobombus) ruderarius</i> (Red-shanked Carder-bee)	SJ35	01/04/1990	B. Formstone			Site Name Withheld	Comments Withheld	D1070/002/01	S7, LBAP[FLI]	3
<i>Bombus (Thoracobombus) ruderarius</i> (Red-shanked Carder-bee)	SJ3652	1990 - 1998	Anon			Site Name Withheld	Comments Withheld	D0217/001/03	S7, LBAP[FLI]	3
<i>Nomada integra</i> (Catsear Nomad Bee)	SJ35	14/05/1990	B. Formstone			Site Name Withheld	Comments Withheld	D1070/002/01	RD2(UK)NA	3
<i>Nomada integra</i> (Catsear Nomad Bee)	SJ3652	2 records, between 1990 and 14/05/1990	Anon; Bryan Formstone			Site Name Withheld	Comments Withheld	D0217/001/03	RD2(UK)NA	3
<i>Sphecodes crassus</i> (Swollen-thighed Blood Bee)	SJ35	13/06/1994	B. Formstone			Site Name Withheld	Comments Withheld	D1070/002/01	RD2(UK)NB	3
<i>Sphecodes crassus</i> (Swollen-thighed Blood Bee)	SJ3652	1990 - 1998	Anon			Site Name Withheld	Comments Withheld	D0217/001/03	RD2(UK)NB	3
<i>Sphecodes reticulatus</i> (Reticulate Blood Bee)	SJ368528	06/07/2000	Bryan Formstone	1 Female		Site Name Withheld	Comments Withheld	D0217/001/03	RD2(UK)NA	3

Birds										
Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	QA
<i>Acanthis cabaret</i> (Lesser Redpoll / Llinos Bengoch Leiaf)	SJ3852	30/04/2009	Jason Newton	7		Cornish Hall	Comments Withheld	D0062/001/01	S7, UKBR, WBR, LBAP[CON, DEN]	3
<i>Acanthis cabaret</i> (Lesser Redpoll / Llinos Bengoch Leiaf)	SJ3653	14/02/2009	Jason Newton	2		Wrexham, Borrass Head	Comments Withheld	D0062/001/01	S7, UKBR, WBR, LBAP[CON, DEN]	3
<i>Actitis hypoleucos</i> (Common Sandpiper / Pibydd y Dorlan)	SJ3653	07/08/2009	Jason Newton	1		Wrexham, Borrass Head	Comments Withheld	D0062/001/01	UKBA, WBA	3
<i>Aegithalos caudatus</i> (Long-tailed Tit / Titw Cynffon-Hir)	SJ3753	30/04/2009	Jason Newton	2		Commonwood, E	Comments Withheld	D0062/001/01	WBA	3
<i>Aegithalos caudatus</i> (Long-tailed Tit / Titw Cynffon-Hir)	SJ3853	30/04/2009	Jason Newton	1		Commonwood, E	Comments Withheld	D0062/001/01	WBA	3
<i>Aegithalos caudatus</i> (Long-tailed Tit / Titw Cynffon-Hir)	SJ3653	3 records, between 25/12/2007 and 05/04/2009	Julie Rogers; Jason Newton	2+; 5; 1		Wrexham, Borrass Head	Comments Withheld	D0062/001/01	WBA	3
<i>Aegithalos caudatus</i> (Long-tailed Tit / Titw Cynffon-Hir)	SJ3652	3 records, between 01/02/2004 and 01/12/2004	Les Wood	2; 7		Wrexham, Borrass Quarry	Comments Withheld	D0062/001/01	WBA	3
<i>Aegithalos caudatus</i> (Long-tailed Tit / Titw Cynffon-Hir)	SJ3754	01/05/2009	Jason Newton	2		Gresford, far E	Comments Withheld	D0062/001/01	WBA	3
<i>Alauda arvensis</i> (Skylark / Ehedydd)	SJ3853	3 records, between 30/04/2009 and 24/04/2011	Neil Hughes; Jason Newton	2; 1		Commonwood, E	Comments Withheld	D0062/003/01 , D0062/001/01	BDir2.2, S7, UKBR, WBA, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	3
<i>Alauda arvensis</i> (Skylark / Ehedydd)	SJ3653	2 records, between 02/02/2006 and 12/04/2009	Jason Newton	30+; 1		Wrexham, Borrass Head	Comments Withheld	D0062/001/01	BDir2.2, S7, UKBR, WBA, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	3
<i>Alauda arvensis</i> (Skylark / Ehedydd)	SJ3652	11 records, between 01/02/2004 and 01/12/2004	Les Wood	5; 6; 8; 15; 4; 3; 9; 1		Wrexham, Borrass Quarry	Comments Withheld	D0062/001/01	BDir2.2, S7, UKBR, WBA, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	3
<i>Anas crecca</i> (Teal / Corhwyaden)	SJ3653	19/12/2016	Mr S Davies	4		Wrexham, Borrass Head		D1297/021/01	BDir2.1, CITES, UKBA, WBA, LBAP[ANG, CON, DEN, FLI, GWY]	1
<i>Anas crecca</i> (Teal / Corhwyaden)	SJ3652	01/06/2004	Les Wood	1		Wrexham, Borrass Quarry	Comments Withheld	D0062/001/01	BDir2.1, CITES, UKBA, WBA, LBAP[ANG, CON, DEN, FLI, GWY]	3
<i>Anas crecca</i> (Teal / Corhwyaden)	SJ3754	24/01/2009	Jason Newton	100+		Gresford, far E	Comments Withheld	D0062/001/01	BDir2.1, CITES, UKBA, WBA, LBAP[ANG, CON, DEN, FLI, GWY]	3
<i>Anas platyrhynchos</i> (Mallard / Hwyaden Wyllt)	SJ3753	2 records, both on 30/04/2009	Jason Newton	1 Female; 1 Male		Commonwood, E	Comments Withheld	D0062/001/01	BDir2.1, UKBA, WBA, LBAP[CON, GWY]	3

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	QA
<i>Anas platyrhynchos</i> (Mallard / Hwysaden Wylt)	SJ3653	4 records, between 19/02/2009 and 19/12/2016	Jason Newton; Mr S Davies; Norman Hallas	6; 3; 2		Wrexham, Borrass Head	Comments Withheld	D0062/001/01 , D1297/021/01 , D1297/002/01	BDir2.1, UKBA, WBA, LBAP[CON, GWY]	3
<i>Anas platyrhynchos</i> (Mallard / Hwysaden Wylt)	SJ3652	9 records, between 01/02/2004 and 19/04/2009	Jason Newton; Les Wood	6; 4; 2; 1; 5		Wrexham, Borrass Quarry	Comments Withheld	D0062/001/01	BDir2.1, UKBA, WBA, LBAP[CON, GWY]	3
<i>Anas platyrhynchos</i> (Mallard / Hwysaden Wylt)	SJ3754	2 records, both on 01/05/2009	Jason Newton	1 Female; 3 Male		Gresford, far E	Comments Withheld	D0062/001/01	BDir2.1, UKBA, WBA, LBAP[CON, GWY]	3
<i>Anas platyrhynchos</i> (Mallard / Hwysaden Wylt)	SJ3854	07/01/2010	Barbara Cooper-Poole	13		Holt, far W	Comments Withheld	D0062/003/01	BDir2.1, UKBA, WBA, LBAP[CON, GWY]	3
<i>Anser anser</i> (Greylag Goose / Gwydd Wylt)	SJ3852	30/05/2009	Jason Newton	6		Cornish Hall	Comments Withheld	D0062/001/01	BDir2.1, Bern, RD2(UK), UKBA, WCA1.2, LBAP[CON]	3
<i>Anser anser</i> (Greylag Goose / Gwydd Wylt)	SJ3653	2 records, between 05/04/2009 and 19/12/2016	Jason Newton; Mr S Davies	4; 5		Wrexham, Borrass Head	Comments Withheld	D0062/001/01 , D1297/021/01	BDir2.1, Bern, RD2(UK), UKBA, WCA1.2, LBAP[CON]	3
<i>Anser anser</i> (Greylag Goose / Gwydd Wylt)	SJ3652	6 records, between 01/07/2004 and 04/11/2009	Jason Newton; Les Wood	2; 22; 40; 30		Wrexham, Borrass Quarry	Comments Withheld	D0062/001/01	BDir2.1, Bern, RD2(UK), UKBA, WCA1.2, LBAP[CON]	3
<i>Anser anser</i> (Greylag Goose / Gwydd Wylt)	SJ3854	21/02/2004	David Owen Jones	16		Holt, far W	Comments Withheld	D0062/001/01	BDir2.1, Bern, RD2(UK), UKBA, WCA1.2, LBAP[CON]	3
<i>Anser brachyrhynchus</i> (Pink-footed Goose / Gwydd Troetbinc)	SJ3854	21/02/2004	David Owen Jones	2		Holt, far W	Comments Withheld	D0062/001/01	BDir2.2, Bern, RD2(UK), UKBA	3
<i>Anthus pratensis</i> (Meadow Pipit / Corhedydd y Waun)	SJ3653	3 records, between 14/02/2009 and 19/12/2016	Jason Newton; Mr S Davies	1; 2		Wrexham, Borrass Head	Comments Withheld	D0062/001/01 , D1297/021/01	Bern, UKBA, WBA, LBAP[CON]	3
<i>Anthus pratensis</i> (Meadow Pipit / Corhedydd y Waun)	SJ3652	12 records, between 01/01/2004 and 01/12/2004	Les Wood	5; 30; 7; 20; 70; 1; 4		Wrexham, Borrass Quarry	Comments Withheld	D0062/001/01	Bern, UKBA, WBA, LBAP[CON]	3
<i>Apus apus</i> (Swift / Gwennol Ddu)	SJ3653	2 records, between 13/05/2009 and 17/08/2009	Jason Newton	20; 5+		Wrexham, Borrass Head	Comments Withheld	D0062/001/01	UKBA, WBA	3
<i>Apus apus</i> (Swift / Gwennol Ddu)	SJ3652	5 records, between 01/05/2004 and 20/05/2009	Les Wood; Jason Newton	7; 30; 1		Wrexham, Borrass Quarry	Comments Withheld	D0062/001/01	UKBA, WBA	3
<i>Asio flammeus</i> (Short-eared Owl / Tylluan Glustiog)	SJ35 (GPS Reading)	11/03/2016	Jonathan Hulson	1 Adult		Site Name Withheld	Comments Withheld	D1117/001/01	BDir1, Bern, CITES, UKBA, WBR, LBAP[CON, DEN, GWY]	1
<i>Aythya ferina</i> (Pochard / Hwysaden Bengoch)	SJ35	01/09/2004	Les Wood	3		Site Name Withheld	Comments Withheld	D0062/001/01	BDir2.1, UKBR, WBR, LBAP[CON]	3
<i>Aythya fuligula</i> (Tufted Duck / Hwysaden Gopog)	SJ3653	4 records, between 24/01/2009 and 07/08/2009	Jason Newton; Norman Hallas	5; 7 Juvenile; 1 Female; 8		Wrexham, Borrass Head	Comments Withheld	D0062/001/01 , D1297/002/01	BDir2.1, WBA, LBAP[CON]	3

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	QA
<i>Aythya fuligula</i> (Tufted Duck / Hwyaaden Gopog)	SJ3652	4 records, between 01/01/2004 and 01/10/2004	Les Wood	4; 13; 5; 3		Wrexham, Borrass Quarry	Comments Withheld	D0062/001/01	BDir2.1, WBA, LBAP[CON]	3
<i>Branta canadensis</i> (Canada Goose / Gwydd Canada)	SJ3753	01/05/2009	Jason Newton	2		Commonwood, E	Comments Withheld	D0062/001/01	BDir2.1, INNS, WCA9	3
<i>Branta canadensis</i> (Canada Goose / Gwydd Canada)	SJ3653	4 records, between 24/01/2009 and 07/02/2010	Jason Newton; Norman Hallas	27; 14; 2; 7		Wrexham, Borrass Head	Comments Withheld	D0062/001/01 , D0062/003/01 , D1297/002/01	BDir2.1, INNS, WCA9	3
<i>Branta canadensis</i> (Canada Goose / Gwydd Canada)	SJ3652	8 records, between 01/02/2004 and 19/04/2009	Jason Newton; Les Wood	16; 4; 2; 70; 130; 170; 120; 1		Wrexham, Borrass Quarry	Comments Withheld	D0062/001/01	BDir2.1, INNS, WCA9	3
<i>Branta leucopsis</i> (Barnacle Goose / Gwydd Wyran)	SJ3854	21/02/2004	David Owen Jones	10		Holt, far W	Comments Withheld	D0062/001/01	BDir1, Bern, UKBA, WBA, WCA9	3
<i>Charadrius dubius</i> (Little Ringed Plover / Cwtiad Torchog Bach)	SJ35	2 records, between 01/07/2004 and 09/05/2009	Les Wood; Jason Newton	2; 1		Site Name Withheld	Comments Withheld	D0062/001/01	Bern, WCA1.1, LBAP[CON]	3
<i>Charadrius hiaticula</i> (Ringed Plover / Cwtiad Torchog)	SJ3652	19/04/2009	Jason Newton	1+		Wrexham, Borrass Quarry	Comments Withheld	D0062/001/01	Bern, S7, UKBR, WBA, LBAP[CON, GWY]	3
<i>Chroicocephalus ridibundus</i> (Black-headed Gull / Gwylan Benddu)	SJ3653	2 records, between 25/07/2009 and 19/12/2016	Jason Newton; Mr S Davies	1		Wrexham, Borrass Head	Comments Withheld	D0062/001/01 , D1297/021/01	BDir2.2, S7, UKBA, WBR, LBAP[GWY]	3
<i>Chroicocephalus ridibundus</i> (Black-headed Gull / Gwylan Benddu)	SJ3652	9 records, between 01/01/2004 and 01/12/2004	Les Wood	4; 30; 11; 1; 60; 160; 150; 15		Wrexham, Borrass Quarry	Comments Withheld	D0062/001/01	BDir2.2, S7, UKBA, WBR, LBAP[GWY]	3
<i>Columba oenas</i> (Stock Dove / Colomen Wyllt)	SJ3753	2 records, between 24/01/2009 and 19/04/2009	Jason Newton	2; 18		Commonwood, E	Comments Withheld	D0062/001/01	BDir2.2, Bern, RD2(UK), UKBA, LBAP[GWY]	3
<i>Columba oenas</i> (Stock Dove / Colomen Wyllt)	SJ3752	14/02/2009	Jason Newton	1		Wrexham, Borrass Hall	Comments Withheld	D0062/001/01	BDir2.2, Bern, RD2(UK), UKBA, LBAP[GWY]	3
<i>Columba oenas</i> (Stock Dove / Colomen Wyllt)	SJ3852	30/04/2009	Jason Newton	4		Cornish Hall	Comments Withheld	D0062/001/01	BDir2.2, Bern, RD2(UK), UKBA, LBAP[GWY]	3
<i>Columba oenas</i> (Stock Dove / Colomen Wyllt)	SJ3653	3 records, between 24/01/2009 and 07/02/2010	Jason Newton	4; 10; 31		Wrexham, Borrass Head	Comments Withheld	D0062/001/01 , D0062/003/01	BDir2.2, Bern, RD2(UK), UKBA, LBAP[GWY]	3
<i>Columba oenas</i> (Stock Dove / Colomen Wyllt)	SJ3652	5 records, between 01/08/2004 and 07/02/2010	Jason Newton; Les Wood	3; 1; 4; 5		Wrexham, Borrass Quarry	Comments Withheld	D0062/003/01 , D0062/001/01	BDir2.2, Bern, RD2(UK), UKBA, LBAP[GWY]	3
<i>Columba oenas</i> (Stock Dove / Colomen Wyllt)	SJ3754	01/05/2009	Jason Newton	1		Gresford, far E	Comments Withheld	D0062/001/01	BDir2.2, Bern, RD2(UK), UKBA, LBAP[GWY]	3

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	QA
<i>Cuculus canorus</i> (Cuckoo / Cog)	SJ3652	2 records, between 01/05/2004 and 04/06/2007	Les Wood; Jason Newton	1		Wrexham, Borrass Quarry	Comments Withheld	D0062/001/01	S7, UKBR, WBR, LBAP[CON, DEN, FLI, GWY]	3
<i>Cygnus olor</i> (Mute Swan / Alarch Dof)	SJ3853	23/05/2010	Neil Hughes	5		Commonwood, E	Comments Withheld	D0062/003/01	BDir2.2, UKBA, WBA, LBAP[CON]	3
<i>Cygnus olor</i> (Mute Swan / Alarch Dof)	SJ3652	01/06/2004	Les Wood	1		Wrexham, Borrass Quarry	Comments Withheld	D0062/001/01	BDir2.2, UKBA, WBA, LBAP[CON]	3
<i>Cygnus olor</i> (Mute Swan / Alarch Dof)	SJ3854	21/02/2004	David Owen Jones	32		Holt, far W	Comments Withheld	D0062/001/01	BDir2.2, UKBA, WBA, LBAP[CON]	3
<i>Delichon urbicum</i> (House Martin / Gwennol y Bondo)	SJ3853	23/05/2010	Neil Hughes	9		Commonwood, E	Comments Withheld	D0062/003/01	Bern, UKBA, WBA, LBAP[CON]	3
<i>Delichon urbicum</i> (House Martin / Gwennol y Bondo)	SJ3852	30/05/2009	Jason Newton	5		Cornish Hall	Comments Withheld	D0062/001/01	Bern, UKBA, WBA, LBAP[CON]	3
<i>Delichon urbicum</i> (House Martin / Gwennol y Bondo)	SJ3653	25/07/2009	Jason Newton	3		Wrexham, Borrass Head	Comments Withheld	D0062/001/01	Bern, UKBA, WBA, LBAP[CON]	3
<i>Delichon urbicum</i> (House Martin / Gwennol y Bondo)	SJ3652	2 records, between 01/06/2004 and 01/07/2004	Les Wood	25; 4		Wrexham, Borrass Quarry	Comments Withheld	D0062/001/01	Bern, UKBA, WBA, LBAP[CON]	3
<i>Egretta garzetta</i> (Little Egret / Creyr Bach)	SJ3753	20/12/2013	James Bailey	1		Commonwood, E	Comments Withheld	D0062/005/01	BDir1, Bern, CITES, RD2(UK), LBAP[CON, GWY]	3
<i>Emberiza citrinella</i> (Yellowhammer / Bras Melyn)	SJ3853	2 records, between 23/05/2010 and 31/05/2016	Neil Hughes; Mr J Hughes	4; 1		Commonwood, E	Comments Withheld; Breeding status - Singing male	D0062/003/01 , D1297/021/01	Bern, S7, UKBR, WBR, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	3
<i>Emberiza citrinella</i> (Yellowhammer / Bras Melyn)	SJ3653	07/12/2009	Norman Hallas	1		Wrexham, Borrass Head		D1297/002/01	Bern, S7, UKBR, WBR, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	1
<i>Emberiza citrinella</i> (Yellowhammer / Bras Melyn)	SJ3652	13/10/2008	Jason Newton	1		Wrexham, Borrass Quarry	Comments Withheld	D0062/001/01	Bern, S7, UKBR, WBR, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	3
<i>Emberiza schoeniclus</i> (Reed Bunting / Bras y Cyrs)	SJ3653	07/02/2010	Jason Newton	8		Wrexham, Borrass Head	Comments Withheld	D0062/003/01	Bern, S7, UKBA, WBA, LBAP[CON, DEN, FLI, GWY]	3
<i>Emberiza schoeniclus</i> (Reed Bunting / Bras y Cyrs)	SJ3652	2 records, between 01/04/2004 and 01/12/2004	Les Wood	1; 2		Wrexham, Borrass Quarry	Comments Withheld	D0062/001/01	Bern, S7, UKBA, WBA, LBAP[CON, DEN, FLI, GWY]	3
<i>Falco subbuteo</i> (Hobby / Hebog yr Ehedydd)	SJ35	23/09/2007	John Lawton Roberts	1		Site Name Withheld	Comments Withheld	D0062/001/01	Bern, CITES, WBA, WCA1.1, LBAP[CON, GWY]	3
<i>Falco tinnunculus</i> (Kestrel / Cudyll Coch)	SJ3753	30/04/2009	Jason Newton	1		Commonwood, E	Comments Withheld	D0062/001/01	Bern, CITES, S7, UKBA, WBR, LBAP[ANG, CON, DEN, FLI, GWY]	3
<i>Falco tinnunculus</i> (Kestrel / Cudyll Coch)	SJ3853	24/04/2011	Neil Hughes	1		Commonwood, E	Comments Withheld	D0062/003/01	Bern, CITES, S7, UKBA, WBR, LBAP[ANG, CON, DEN, FLI, GWY]	3
<i>Falco tinnunculus</i> (Kestrel / Cudyll Coch)	SJ3653	2 records, between 25/12/2007 and 25/07/2009	Julie Rogers; Jason Newton	1		Wrexham, Borrass Head	Comments Withheld	D0062/001/01	Bern, CITES, S7, UKBA, WBR, LBAP[ANG, CON, DEN, FLI, GWY]	3

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	QA
<i>Falco tinnunculus</i> (Kestrel / Cudyll Coch)	SJ3652	8 records, between 01/03/2004 and 01/12/2004	Les Wood	1; 2		Wrexham, Borrass Quarry	Comments Withheld	D0062/001/01	Bern, CITES, S7, UKBA, WBR, LBAP[ANG, CON, DEN, FLI, GWY]	3
<i>Gallinago gallinago</i> (Snipe / Giach Cyffredin)	SJ3652	10 records, between 01/01/2004 and 15/01/2005	Les Wood; Marian Wood; Les Wood	4; 1; 3; 2; 8; 5; 30		Wrexham, Borrass Quarry	Comments Withheld	D0062/001/01	BDir2.1, UKBA, WBA, LBAP[ANG, CON, DEN, FLI, GWY]	3
<i>Gallinago gallinago</i> (Snipe / Giach Cyffredin)	SJ3854	07/01/2010	Barbara Cooper-Poole	2		Holt, far W	Comments Withheld	D0062/003/01	BDir2.1, UKBA, WBA, LBAP[ANG, CON, DEN, FLI, GWY]	3
<i>Haematopus ostralegus</i> (Oystercatcher / Pioden Fôr)	SJ3653	18/05/2009	Jason Newton	1		Wrexham, Borrass Head	Comments Withheld	D0062/001/01	BDir2.2, UKBA, WBA, LBAP[CON, GWY]	3
<i>Hirundo rustica</i> (Swallow / Gwennol)	SJ3753	30/04/2009	Jason Newton	5		Commonwood, E	Comments Withheld	D0062/001/01	Bern, WBA, LBAP[ANG, CON, GWY]	3
<i>Hirundo rustica</i> (Swallow / Gwennol)	SJ3752	26/06/2009	Jim Hulse; Val Hulse	3		Wrexham, Borrass Hall	Comments Withheld	D0062/001/01	Bern, WBA, LBAP[ANG, CON, GWY]	3
<i>Hirundo rustica</i> (Swallow / Gwennol)	SJ3853	3 records, between 30/04/2009 and 24/04/2011	Jason Newton; Neil Hughes	8; 10; 4		Commonwood, E	Comments Withheld	D0062/001/01 , D0062/003/01	Bern, WBA, LBAP[ANG, CON, GWY]	3
<i>Hirundo rustica</i> (Swallow / Gwennol)	SJ3852	30/04/2009	Jason Newton	2		Cornish Hall	Comments Withheld	D0062/001/01	Bern, WBA, LBAP[ANG, CON, GWY]	3
<i>Hirundo rustica</i> (Swallow / Gwennol)	SJ3653	2 records, between 09/04/2008 and 09/05/2009	Norman Hallas; Jason Newton	2		Wrexham, Borrass Head	Comments Withheld	D1297/002/01 , D0062/001/01	Bern, WBA, LBAP[ANG, CON, GWY]	1
<i>Hirundo rustica</i> (Swallow / Gwennol)	SJ3652	7 records, between 01/04/2004 and 19/04/2009	Les Wood; Jason Newton	30; 50; 2; 20; 22; 13		Wrexham, Borrass Quarry	Comments Withheld	D0062/001/01	Bern, WBA, LBAP[ANG, CON, GWY]	3
<i>Hirundo rustica</i> (Swallow / Gwennol)	SJ3754	01/05/2009	Jason Newton	6		Gresford, far E	Comments Withheld	D0062/001/01	Bern, WBA, LBAP[ANG, CON, GWY]	3
<i>Larus argentatus</i> (Herring Gull / Gwylan y Penwaig)	SJ3653	3 records, between 14/12/2008 and 19/12/2016	Jason Newton; Mr S Davies	200+; 1; 3		Wrexham, Borrass Head	Comments Withheld	D0062/001/01 , D1297/021/01	BAP, BDir2.2, S7, UKBR, WBR, LBAP[CON, GWY]	3
<i>Larus argentatus</i> (Herring Gull / Gwylan y Penwaig)	SJ3652	2 records, between 14/02/2009 and 07/02/2010	Jason Newton	1; 50		Wrexham, Borrass Quarry	Comments Withheld	D0062/003/01 , D0062/001/01	BAP, BDir2.2, S7, UKBR, WBR, LBAP[CON, GWY]	3
<i>Larus canus</i> (Common Gull / Gwylan y Gweunydd)	SJ3653	24/01/2009	Jason Newton	50		Wrexham, Borrass Head	Comments Withheld	D0062/001/01	BDir2.2, UKBA, WBR	3
<i>Larus canus</i> (Common Gull / Gwylan y Gweunydd)	SJ3652	9 records, between 01/02/2004 and 07/02/2010	Jason Newton; Les Wood	2; 150; 1; 160; 8; 10; 15; 4		Wrexham, Borrass Quarry	Comments Withheld	D0062/003/01 , D0062/001/01	BDir2.2, UKBA, WBR	3
<i>Larus canus</i> (Common Gull / Gwylan y Gweunydd)	SJ3854	07/01/2010	Barbara Cooper-Poole	10		Holt, far W	Comments Withheld	D0062/003/01	BDir2.2, UKBA, WBR	3
<i>Larus fuscus</i> (Lesser Black-backed Gull / Gwylan Gefnddu Leiaf)	SJ3753	12/04/2009	Jason Newton	11		Commonwood, E	Comments Withheld	D0062/001/01	BDir2.2, UKBA, WBA, LBAP[CON, GWY, SNP]	3
<i>Larus fuscus</i> (Lesser Black-backed Gull / Gwylan Gefnddu Leiaf)	SJ3653	3 records, between 14/12/2008 and 05/02/2010	Jason Newton	100+; 25; 350		Wrexham, Borrass Head	Comments Withheld	D0062/001/01 , D0062/003/01	BDir2.2, UKBA, WBA, LBAP[CON, GWY, SNP]	3

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	QA
<i>Larus fuscus</i> (Lesser Black-backed Gull / Gwylan Gefnddu Leiaf)	SJ3652	11 records, between 01/01/2004 and 14/02/2009	Jason Newton; Les Wood	150; 50; 20; 30; 5; 2; 9		Wrexham, Borrass Quarry	Comments Withheld	D0062/001/01	BDir2.2, UKBA, WBA, LBAP[CON, GWY, SNP]	3
<i>Larus fuscus</i> (Lesser Black-backed Gull / Gwylan Gefnddu Leiaf)	SJ3854	30/04/2009	Jason Newton	7		Holt, far W	Comments Withheld	D0062/001/01	BDir2.2, UKBA, WBA, LBAP[CON, GWY, SNP]	3
<i>Larus marinus</i> (Great Black-backed Gull / Gwylan Gefnddu Fwyaf)	SJ3652	2 records, between 01/10/2004 and 01/11/2004	Les Wood	3; 1		Wrexham, Borrass Quarry	Comments Withheld	D0062/001/01	BDir2.2, UKBA, WBR	3
<i>Limosa limosa</i> (Black-tailed Godwit / Rhostog Gynffonddu)	SJ3653	07/08/2009	Jason Newton	1		Wrexham, Borrass Head	Comments Withheld	D0062/001/01	BAP, BDir2.2, UKBR, WBA, WCA1.1, LBAP[CON, GWY]	3
<i>Linaria cannabina</i> (Linnet / Llinos)	SJ3853	30/04/2009	Jason Newton	1		Commonwood, E	Comments Withheld	D0062/001/01	Bern, S7, UKBR, WBR, LBAP[ANG, CON, DEN, FLI, GWY]	3
<i>Linaria cannabina</i> (Linnet / Llinos)	SJ3653	2 records, between 03/05/2008 and 12/04/2009	Jason Newton; Norman Hallas	25; 2		Wrexham, Borrass Head	Comments Withheld	D0062/001/01 , D1297/002/01	Bern, S7, UKBR, WBR, LBAP[ANG, CON, DEN, FLI, GWY]	3
<i>Linaria cannabina</i> (Linnet / Llinos)	SJ3652	6 records, between 01/04/2004 and 12/04/2009	Les Wood; Jason Newton	3; 6; 2; 4; 25		Wrexham, Borrass Quarry	Comments Withheld	D0062/001/01	Bern, S7, UKBR, WBR, LBAP[ANG, CON, DEN, FLI, GWY]	3
<i>Linaria cannabina</i> (Linnet / Llinos)	SJ3854	07/01/2010	Barbara Cooper-Poole	15		Holt, far W	Comments Withheld	D0062/003/01	Bern, S7, UKBR, WBR, LBAP[ANG, CON, DEN, FLI, GWY]	3
<i>Locustella naevia</i> (Grasshopper Warbler / Troellwr Bach)	SJ3653	09/05/2009	Jason Newton	1		Wrexham, Borrass Head	Comments Withheld	D0062/001/01	S7, UKBR, WBR, LBAP[CON, DEN, FLI, GWY]	3
<i>Motacilla cinerea</i> (Grey Wagtail / Siglen Lwyd)	SJ3652	28/02/2009	Jason Newton	1		Wrexham, Borrass Quarry	Comments Withheld	D0062/001/01	Bern, RD2(UK), UKBR, LBAP[CON]	3
<i>Numenius arquata</i> (Curlew / Gylfinir)	SJ3753	19/04/2009	Jason Newton	1		Commonwood, E	Comments Withheld	D0062/001/01	BDir2.2, S7, UKBR, WBR, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	3
<i>Numenius arquata</i> (Curlew / Gylfinir)	SJ3853	31/05/2016	Mr J Hughes	2		Commonwood, E		D1297/021/01	BDir2.2, S7, UKBR, WBR, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	1
<i>Numenius arquata</i> (Curlew / Gylfinir)	SJ3653	12/04/2009	Jason Newton	1		Wrexham, Borrass Head	Comments Withheld	D0062/001/01	BDir2.2, S7, UKBR, WBR, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	3
<i>Numenius arquata</i> (Curlew / Gylfinir)	SJ3652	10/04/2009	Jason Newton	1		Wrexham, Borrass Quarry	Comments Withheld	D0062/001/01	BDir2.2, S7, UKBR, WBR, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	3
<i>Oenanthe oenanthe</i> (Wheatear / Tinwen y Garn)	SJ3653	03/05/2008	Norman Hallas	6		Wrexham, Borrass Head		D1297/002/01	Bern, WBA, LBAP[CON]	1
<i>Oenanthe oenanthe</i> (Wheatear / Tinwen y Garn)	SJ3652	3 records, between 01/05/2004 and 11/04/2007	Les Wood; Jason Newton	1; 8+		Wrexham, Borrass Quarry	Comments Withheld	D0062/001/01	Bern, WBA, LBAP[CON]	3
<i>Passer domesticus</i> (House Sparrow / Aderyn y To)	SJ3753	30/04/2009	Jason Newton	2		Commonwood, E	Comments Withheld	D0062/001/01	S7, UKBR, WBA, LBAP[CON, FLI, GWY]	3

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	QA
<i>Passer domesticus</i> (House Sparrow / Aderyn y To)	SJ3853	2 records, between 30/04/2009 and 23/05/2010	Neil Hughes; Jason Newton	14; 5		Commonwood, E	Comments Withheld	D0062/003/01 , D0062/001/01	S7, UKBR, WBA, LBAP[CON, FLI, GWY]	3
<i>Passer domesticus</i> (House Sparrow / Aderyn y To)	SJ3653	3 records, between 14/02/2009 and 20/02/2010	Jason Newton	15; 50; 10		Wrexham, Borrass Head	Comments Withheld	D0062/001/01 , D0062/003/01	S7, UKBR, WBA, LBAP[CON, FLI, GWY]	3
<i>Passer domesticus</i> (House Sparrow / Aderyn y To)	SJ3652	2 records, between 01/06/2004 and 01/10/2004	Les Wood	1; 2		Wrexham, Borrass Quarry	Comments Withheld	D0062/001/01	S7, UKBR, WBA, LBAP[CON, FLI, GWY]	3
<i>Passer domesticus</i> (House Sparrow / Aderyn y To)	SJ3754	01/05/2009	Jason Newton	1		Gresford, far E	Comments Withheld	D0062/001/01	S7, UKBR, WBA, LBAP[CON, FLI, GWY]	3
<i>Passer montanus</i> (Tree Sparrow / Golfan y Mynydd)	SJ3653	19/04/2009	Jason Newton	1		Wrexham, Borrass Head	Comments Withheld	D0062/001/01	S7, UKBR, WBR, LBAP[ANG, CON, DEN, FLI, GWY]	3
<i>Passer montanus</i> (Tree Sparrow / Golfan y Mynydd)	SJ3652	01/12/2004	Les Wood	20		Wrexham, Borrass Quarry	Comments Withheld	D0062/001/01	S7, UKBR, WBR, LBAP[ANG, CON, DEN, FLI, GWY]	3
<i>Perdix perdix</i> (Grey Partridge / Petrisen)	SJ3652	2 records, between 01/04/2004 and 01/09/2004	Les Wood	2; 6		Wrexham, Borrass Quarry	Comments Withheld	D0062/001/01	BDir2.1, S7, UKBR, WBR, LBAP[ANG, CON, DEN, FLI, GWY]	3
<i>Periparus ater</i> (Coal Tit / Titw Penddu)	SJ3653	2 records, between 25/12/2007 and 25/07/2009	Julie Rogers; Jason Newton	1		Wrexham, Borrass Head	Comments Withheld	D0062/001/01	Bern, WBA, LBAP[CON]	3
<i>Periparus ater</i> (Coal Tit / Titw Penddu)	SJ3652	01/02/2004	Les Wood	1		Wrexham, Borrass Quarry	Comments Withheld	D0062/001/01	Bern, WBA, LBAP[CON]	3
<i>Phalacrocorax carbo</i> (Cormorant / Mulfran)	SJ3653	28/02/2009	Jason Newton	1		Wrexham, Borrass Head	Comments Withheld	D0062/001/01	WBA, LBAP[CON, GWY]	3
<i>Phylloscopus trochilus</i> (Willow Warbler / Telor yr Helyg)	SJ3853	30/04/2009	Jason Newton	1		Commonwood, E	Comments Withheld	D0062/001/01	UKBA, WBR, LBAP[CON]	3
<i>Phylloscopus trochilus</i> (Willow Warbler / Telor yr Helyg)	SJ3653	30/04/2009	Jason Newton	1		Wrexham, Borrass Head	Comments Withheld	D0062/001/01	UKBA, WBR, LBAP[CON]	3
<i>Phylloscopus trochilus</i> (Willow Warbler / Telor yr Helyg)	SJ3652	4 records, between 01/04/2004 and 01/07/2004	Les Wood	1; 3		Wrexham, Borrass Quarry	Comments Withheld	D0062/001/01	UKBA, WBR, LBAP[CON]	3
<i>Picus viridis</i> (Green Woodpecker / Cnocell Werdd)	SJ3653	24/01/2009	Jason Newton	1		Wrexham, Borrass Head	Comments Withheld	D0062/001/01	Bern, WBA, LBAP[CON, DEN, FLI, GWY, SNP]	3
<i>Picus viridis</i> (Green Woodpecker / Cnocell Werdd)	SJ3652	2 records, between 12/03/2005 and 16/03/2005	Marian Wood; Les Wood	1		Wrexham, Borrass Quarry	Comments Withheld	D0062/001/01	Bern, WBA, LBAP[CON, DEN, FLI, GWY, SNP]	3
<i>Poecile palustris</i> (Marsh Tit / Titw'r Wern)	SJ3652	01/06/2004	Les Wood	1		Wrexham, Borrass Quarry	Comments Withheld	D0062/001/01	BAP, Bern, RD2(UK), S7, UKBR, WBR, LBAP[CON, DEN, FLI, GWY]	4
<i>Prunella modularis</i> (Dunnock / Llwyd y Gwrych)	SJ3852	30/04/2009	Jason Newton	1		Cornish Hall	Comments Withheld	D0062/001/01	BAP, Bern, RD2(UK), S7, UKBA, LBAP[CON]	3

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	QA
<i>Prunella modularis</i> (Dunnock / Llwyd y Gwrych)	SJ3653	3 records, between 09/04/2008 and 12/04/2009	Jason Newton; Norman Hallas	1; 4		Wrexham, Borrass Head	Comments Withheld	D0062/001/01 , D1297/002/01	BAP, Bern, RD2(UK), S7, UKBA, LBAP[CON]	3
<i>Prunella modularis</i> (Dunnock / Llwyd y Gwrych)	SJ3652	5 records, between 01/03/2004 and 01/10/2004	Les Wood	3; 2; 1		Wrexham, Borrass Quarry	Comments Withheld	D0062/001/01	BAP, Bern, RD2(UK), S7, UKBA, LBAP[CON]	3
<i>Prunella modularis</i> (Dunnock / Llwyd y Gwrych)	SJ3754	01/05/2009	Jason Newton	1		Gresford, far E	Comments Withheld	D0062/001/01	BAP, Bern, RD2(UK), S7, UKBA, LBAP[CON]	3
<i>Pyrrhula pyrrhula</i> (Bullfinch / Coch y Berllan)	SJ3653	2 records, between 14/02/2009 and 25/07/2009	Jason Newton	1		Wrexham, Borrass Head	Comments Withheld	D0062/001/01	BAP, S7, UKBA, WBR, LBAP[CON, DEN, FLI, GWY]	3
<i>Pyrrhula pyrrhula</i> (Bullfinch / Coch y Berllan)	SJ3652	4 records, between 01/01/2004 and 01/11/2004	Les Wood	2; 5		Wrexham, Borrass Quarry	Comments Withheld	D0062/001/01	BAP, S7, UKBA, WBR, LBAP[CON, DEN, FLI, GWY]	3
<i>Pyrrhula pyrrhula</i> (Bullfinch / Coch y Berllan)	SJ3854	07/01/2010	Barbara Cooper-Poole	7		Holt, far W	Comments Withheld	D0062/003/01	BAP, S7, UKBA, WBR, LBAP[CON, DEN, FLI, GWY]	3
<i>Regulus regulus</i> (Goldcrest / Dryw Eurben)	SJ3653	2 records, between 14/02/2009 and 31/07/2009	Jason Newton	1		Wrexham, Borrass Head	Comments Withheld	D0062/001/01	Bern, WBA, LBAP[CON]	3
<i>Regulus regulus</i> (Goldcrest / Dryw Eurben)	SJ3652	01/10/2004	Les Wood	1		Wrexham, Borrass Quarry	Comments Withheld	D0062/001/01	Bern, WBA, LBAP[CON]	3
<i>Riparia riparia</i> (Sand Martin / Gwennol y Glennydd)	SJ3653	31/07/2009	Jason Newton	3		Wrexham, Borrass Head	Comments Withheld	D0062/001/01	Bern, WBA, LBAP[CON, DEN, FLI, GWY]	3
<i>Riparia riparia</i> (Sand Martin / Gwennol y Glennydd)	SJ3652	7 records, between 01/04/2004 and 12/04/2009	Les Wood; Jason Newton	20; 120; 80; 60; 30; 8		Wrexham, Borrass Quarry	Comments Withheld	D0062/001/01	Bern, WBA, LBAP[CON, DEN, FLI, GWY]	3
<i>Saxicola rubicola</i> (Stonechat / Clochdar y Cerrig)	SJ3652	7 records, between 01/02/2004 and 01/12/2004	Les Wood	2; 1		Wrexham, Borrass Quarry	Comments Withheld	D0062/001/01	Bern, RD2(UK), LBAP[ANG, CON, DEN, FLI, GWY]	3
<i>Sturnus vulgaris</i> (Starling / Drudwen)	SJ3753	24/01/2009	Jason Newton	25		Commonwood, E	Comments Withheld	D0062/001/01	BAP, BDir2.2, Bern, RD2(UK), S7, UKBR, WBR, LBAP[CON, FLI, GWY]	3
<i>Sturnus vulgaris</i> (Starling / Drudwen)	SJ3752	31/01/2009	Jason Newton	60		Wrexham, Borrass Hall	Comments Withheld	D0062/001/01	BAP, BDir2.2, Bern, RD2(UK), S7, UKBR, WBR, LBAP[CON, FLI, GWY]	3
<i>Sturnus vulgaris</i> (Starling / Drudwen)	SJ3853	23/05/2010	Neil Hughes	48		Commonwood, E	Comments Withheld	D0062/003/01	BAP, BDir2.2, Bern, RD2(UK), S7, UKBR, WBR, LBAP[CON, FLI, GWY]	3
<i>Sturnus vulgaris</i> (Starling / Drudwen)	SJ3852	30/04/2009	Jason Newton	2		Cornish Hall	Comments Withheld	D0062/001/01	BAP, BDir2.2, Bern, RD2(UK), S7, UKBR, WBR, LBAP[CON, FLI, GWY]	3
<i>Sturnus vulgaris</i> (Starling / Drudwen)	SJ3653	3 records, between 14/02/2009 and 07/02/2010	Jason Newton	1; 100; 200		Wrexham, Borrass Head	Comments Withheld	D0062/001/01 , D0062/003/01	BAP, BDir2.2, Bern, RD2(UK), S7, UKBR, WBR, LBAP[CON, FLI, GWY]	3
<i>Sturnus vulgaris</i> (Starling / Drudwen)	SJ3652	11 records, between 01/01/2004 and 01/12/2004	Les Wood	20; 1; 8; 10; 200; 40; 100; 90; 12; 150		Wrexham, Borrass Quarry	Comments Withheld	D0062/001/01	BAP, BDir2.2, Bern, RD2(UK), S7, UKBR, WBR, LBAP[CON, FLI, GWY]	3
<i>Sturnus vulgaris</i> (Starling / Drudwen)	SJ3754	01/05/2009	Jason Newton	1		Gresford, far E	Comments Withheld	D0062/001/01	BAP, BDir2.2, Bern, RD2(UK), S7, UKBR, WBR, LBAP[CON, FLI, GWY]	3

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	QA
<i>Sylvia communis</i> (Whitethroat / Llwydfron)	SJ3753	30/04/2009	Jason Newton	2		Commonwood, E	Comments Withheld	D0062/001/01	WBA, LBAP[CON]	3
<i>Sylvia communis</i> (Whitethroat / Llwydfron)	SJ3853	2 records, between 30/04/2009 and 24/04/2011	Jason Newton; Neil Hughes	1; 3		Commonwood, E	Comments Withheld	D0062/001/01 , D0062/003/01	WBA, LBAP[CON]	3
<i>Sylvia communis</i> (Whitethroat / Llwydfron)	SJ3653	09/05/2009	Jason Newton	1		Wrexham, Borrass Head	Comments Withheld	D0062/001/01	WBA, LBAP[CON]	3
<i>Sylvia communis</i> (Whitethroat / Llwydfron)	SJ3652	3 records, between 01/06/2004 and 01/08/2004	Les Wood	8; 4; 3		Wrexham, Borrass Quarry	Comments Withheld	D0062/001/01	WBA, LBAP[CON]	3
<i>Tadorna tadorna</i> (Shelduck / Hwyaaden yr Eithin)	SJ3753	30/04/2009	Jason Newton	3		Commonwood, E	Comments Withheld	D0062/001/01	Bern, UKBA, WBA, LBAP[CON, GWY]	3
<i>Tadorna tadorna</i> (Shelduck / Hwyaaden yr Eithin)	SJ3652	01/06/2004	Les Wood	2		Wrexham, Borrass Quarry	Comments Withheld	D0062/001/01	Bern, UKBA, WBA, LBAP[CON, GWY]	3
<i>Tringa totanus</i> (Redshank / Pibydd Coesgoch)	SJ3652	01/12/2004	Les Wood	8		Wrexham, Borrass Quarry	Comments Withheld	D0062/001/01	BDir2.2, UKBA, WBA, LBAP[ANG, CON, GWY]	3
<i>Turdus iliacus</i> (Redwing / Coch Dan Adain)	SJ3653	5 records, between 25/12/2007 and 11/10/2010	Norman Hallas; Kevin Smith; Jason Newton; Julie Rogers	40; 1; 15; 100+; 2		Wrexham, Borrass Head	Comments Withheld	D1297/002/01 , D0062/003/01 , D0062/001/01	BDir2.2, UKBR, WBA, WCA1.1, LBAP[CON]	1
<i>Turdus iliacus</i> (Redwing / Coch Dan Adain)	SJ3652	01/12/2004	Les Wood	6		Wrexham, Borrass Quarry	Comments Withheld	D0062/001/01	BDir2.2, UKBR, WBA, WCA1.1, LBAP[CON]	3
<i>Turdus philomelos</i> (Song Thrush / Bronfraith)	SJ3653	3 records, between 28/02/2009 and 07/02/2010	Jason Newton	1; 3		Wrexham, Borrass Head	Comments Withheld	D0062/003/01 , D0062/001/01	BAP, BDir2.2, Bern, RD2(UK), S7, UKBR, WBA, LBAP[ANG, CON, DEN, FLI, GWY, SNP, WRE]	3
<i>Turdus philomelos</i> (Song Thrush / Bronfraith)	SJ3652	4 records, between 01/02/2004 and 01/11/2004	Les Wood	3; 1; 2		Wrexham, Borrass Quarry	Comments Withheld	D0062/001/01	BAP, BDir2.2, Bern, RD2(UK), S7, UKBR, WBA, LBAP[ANG, CON, DEN, FLI, GWY, SNP, WRE]	3
<i>Turdus philomelos</i> (Song Thrush / Bronfraith)	SJ3754	01/05/2009	Jason Newton	1		Gresford, far E	Comments Withheld	D0062/001/01	BAP, BDir2.2, Bern, RD2(UK), S7, UKBR, WBA, LBAP[ANG, CON, DEN, FLI, GWY, SNP, WRE]	3
<i>Turdus pilaris</i> (Fieldfare / Socan Eira)	SJ3753	24/01/2009	Jason Newton	20		Commonwood, E	Comments Withheld	D0062/001/01	BDir2.2, UKBR, WBA, WCA1.1, LBAP[CON]	3
<i>Turdus pilaris</i> (Fieldfare / Socan Eira)	SJ3653	4 records, between 25/12/2007 and 19/12/2016	Jason Newton; Julie Rogers; Mr S Davies	50; 200+; 2+; 25		Wrexham, Borrass Head	Comments Withheld	D0062/001/01 , D1297/021/01 , D0062/003/01	BDir2.2, UKBR, WBA, WCA1.1, LBAP[CON]	3
<i>Turdus pilaris</i> (Fieldfare / Socan Eira)	SJ3652	2 records, between 01/12/2004 and 14/02/2009	Les Wood; Jason Newton	8; 350+		Wrexham, Borrass Quarry	Comments Withheld	D0062/001/01	BDir2.2, UKBR, WBA, WCA1.1, LBAP[CON]	3
<i>Turdus viscivorus</i> (Mistle Thrush / Brych y Coed)	SJ3653	2 records, between 25/12/2007 and 28/02/2009	Julie Rogers; Jason Newton	1		Wrexham, Borrass Head	Comments Withheld	D0062/001/01	BDir2.2, Bern, RD2(UK), UKBR	3
<i>Turdus viscivorus</i> (Mistle Thrush / Brych y Coed)	SJ3652	01/10/2004	Les Wood	1		Wrexham, Borrass Quarry	Comments Withheld	D0062/001/01	BDir2.2, Bern, RD2(UK), UKBR	3

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	QA
<i>Turdus viscivorus</i> (Mistle Thrush / Brych y Coed)	SJ3754	01/05/2009	Jason Newton	1		Gresford, far E	Comments Withheld	D0062/001/01	BDir2.2, Bern, RD2(UK), UKBR	3
<i>Tyto alba</i> (Barn Owl / Tylluan Wen)	SJ35	6 records, between 2008 and 2012	Wales Rare Breeding Birds and Raptor Study Group - North East	8 eggs, 0 hatched; 2 eggs, 2 hatched, 2 fledged; 3 eggs, 3 hatched, 3 fledged	Nest	Site Name Withheld	Comments Withheld	D0036/001/04	Bern, CITES, RD2(UK), WBA, WCA1.1, WCA9, LBAP[ANG, CON, DEN, FLI, GWY, SNP, WRE]	3
<i>Tyto alba</i> (Barn Owl / Tylluan Wen)	SJ35	3 records, between 2010 and 2012	Wales Rare Breeding Birds and Raptor Study Group - North East	2 eggs, 2 hatched, 2 fledged	Nest	Site Name Withheld	Comments Withheld	D0036/001/04	Bern, CITES, RD2(UK), WBA, WCA1.1, WCA9, LBAP[ANG, CON, DEN, FLI, GWY, SNP, WRE]	3
<i>Tyto alba</i> (Barn Owl / Tylluan Wen)	SJ35	8 records, between 2005 and 2012	Wales Rare Breeding Birds and Raptor Study Group - North East	3 eggs, 3 hatched, 3 fledged	Nest	Site Name Withheld	Comments Withheld	D0036/001/04	Bern, CITES, RD2(UK), WBA, WCA1.1, WCA9, LBAP[ANG, CON, DEN, FLI, GWY, SNP, WRE]	3
<i>Tyto alba</i> (Barn Owl / Tylluan Wen)	SJ35	5 records, between 17/07/2007 and 06/07/2014	Mike S Jones; John Lawton Roberts; Per John Lawton Roberts; Emma Broad, Lizzy Webster, John Lawton Roberts; John Lawton Roberts; Julie Rogers	1		Site Name Withheld	Comments Withheld	D0062/005/01 , D0062/003/01 , D0062/001/01	Bern, CITES, RD2(UK), WBA, WCA1.1, WCA9, LBAP[ANG, CON, DEN, FLI, GWY, SNP, WRE]	3
<i>Tyto alba</i> (Barn Owl / Tylluan Wen)	SJ35	2 records, between 30/07/2007 and 10/04/2016	Mr J Hughes; Julie Rogers	2; 1		Site Name Withheld	Comments Withheld	D1297/021/01 , D0062/001/01	Bern, CITES, RD2(UK), WBA, WCA1.1, WCA9, LBAP[ANG, CON, DEN, FLI, GWY, SNP, WRE]	1
<i>Tyto alba</i> (Barn Owl / Tylluan Wen)	SJ35	3 records, between 16/06/2010 and 11/10/2010	Kevin Smith; Per John Lawton Roberts	3; 2 Juvenile; 3 Juvenile		Site Name Withheld	Comments Withheld	D0062/003/01	Bern, CITES, RD2(UK), WBA, WCA1.1, WCA9, LBAP[ANG, CON, DEN, FLI, GWY, SNP, WRE]	3
<i>Tyto alba</i> (Barn Owl / Tylluan Wen)	SJ35	06/03/2006	Kevin Smith	1		Site Name Withheld	Comments Withheld	D0062/001/01	Bern, CITES, RD2(UK), WBA, WCA1.1, WCA9, LBAP[ANG, CON, DEN, FLI, GWY, SNP, WRE]	3
<i>Vanellus vanellus</i> (Lapwing / Cornchwiglen)	SJ3853	2 records, between 30/04/2009 and 23/05/2010	Neil Hughes; Jason Newton	3 Adult; 3		Commonwood, E	Comments Withheld	D0062/003/01 , D0062/001/01	BDir2.2, S7, UKBR, WBR, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	3
<i>Vanellus vanellus</i> (Lapwing / Cornchwiglen)	SJ3653	3 records, between 19/03/2008 and 26/12/2008	Norman Hallas; Jason Newton	1; 35		Wrexham, Borrass Head	Comments Withheld	D1297/002/01 , D0062/001/01	BDir2.2, S7, UKBR, WBR, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	1
<i>Vanellus vanellus</i> (Lapwing / Cornchwiglen)	SJ3652	20 records, between 01/01/2004 and 05/02/2010	Jason Newton; Les Wood	150; 4; 1000+; 200; 130; 40; 10; 16; 170; 300; 100; 120; 13; 400+; 700+ Adult; 280+		Wrexham, Borrass Quarry	Comments Withheld	D0062/001/01 , D0062/003/01	BDir2.2, S7, UKBR, WBR, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	3

Butterflies and Moths										
Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	QA
<i>Coenonympha pamphilus</i> (Small Heath / Gweirlöyn Bach y Waun)	SJ3652 (Estimated (Centroid of Site))	1995	Bryan Formstone	1		SJ3652	Breeding: No. Mature: Yes. Record type: Field record / observation	D0127/001/02	RD1(UK)NT, S7, LBAP[GWY]	3
<i>Erynnis tages</i> (Dingy Skipper / Gwibiwr Llwyd)	SJ3652 (Estimated (Centroid of Site))	1995	Bryan Formstone	2		SJ3652	Breeding: No. Mature: Yes. Record type: Field record / observation	D0127/001/02	RD1(UK)VU, S7, LBAP[CON, FLI, GWY]	3
<i>Hipparchia semele</i> (Grayling / Gweirlöyn Llwyd)	SJ3652 (Estimated (Centroid of Site))	1995	Bryan Formstone	2		SJ3652	Breeding: No. Mature: Yes. Record type: Field record / observation	D0127/001/02	RD1(UK)VU, S7, LBAP[GWY]	3
<i>Lasiommata megera</i> (Wall / Gweirlöyn y Cloddiau)	SJ3652 (Estimated (Centroid of Site))	1995	Bryan Formstone	2		SJ3652	Breeding: No. Mature: Yes. Record type: Field record / observation	D0127/001/02	RD1(UK)NT, S7, LBAP[GWY]	3

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Mammals										
Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	QA
<i>Erinaceus europaeus</i> (Hedgehog / Draenog)	SJ376521	2015	Anon		Live Sighting			D1688/001/02	Bern, S7, LBAP[ANG, CON, FLI, GWY]	1
<i>Meles meles</i> (Badger / Mochyn Daeear)	SJ3753 (Supplied by Original Recorder (Approximate))	05/05/2014	Faye Durkin	1 Adult		Site Name Withheld	Comments Withheld	D0059/006/01	Bern, PBA, LBAP[CON, DEN, FLI, WRE]	3
<i>Meles meles</i> (Badger / Mochyn Daeear)	SJ3653	22/04/2015	Anon - Etive Ecology Ltd	4 hole sett		Site Name Withheld	Comments Withheld	D1725/001/01	Bern, PBA, LBAP[CON, DEN, FLI, WRE]	4
<i>Meles meles</i> (Badger / Mochyn Daeear)	SJ3753	21/01/2003	Clwyd Badger Group (CBG)		Badger Sett	Site Name Withheld	Comments Withheld	D0059/001/01	Bern, PBA, LBAP[CON, DEN, FLI, WRE]	3
<i>Meles meles</i> (Badger / Mochyn Daeear)	SJ3752	04/01/1990	Clwyd Badger Group (CBG)		Badger Sett	Site Name Withheld	Comments Withheld	D0059/001/01	Bern, PBA, LBAP[CON, DEN, FLI, WRE]	3
<i>Meles meles</i> (Badger / Mochyn Daeear)	SJ3653	21/01/2003	Clwyd Badger Group (CBG)		Badger Sett	Site Name Withheld	Comments Withheld	D0059/001/01	Bern, PBA, LBAP[CON, DEN, FLI, WRE]	3

Plants										
Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	QA
<i>Cotoneaster horizontalis</i> (Wall Cotoneaster / Cotoneaster Asgwrn Pysgodyn)	SJ3653	21/05/2013	Shanklin, J.			Borras Head		D1169/004/02	INNS, WCA9	3
<i>Crassula helmsii</i> (New Zealand Pigmyweed / Corchwyn Seland Newydd)	SJ3652	21/05/2013	Shanklin, J.			Borras Gravel Pit	Possibly introduced in golf course pond	D1169/004/02	INNS, WCA9	3
<i>Elodea nuttallii</i> (Nuttall's Waterweed / Ffugalaw Nuttall)	SJ3652	21/05/2013	Shanklin, J.			Borras Gravel Pit	Possibly introduced in golf course pond	D1169/004/02	INNS	3
<i>Filago minima</i> (Small Cudweed / Edafeddog Fach)	SJ3652	14/08/2016	Gittins, G.			Borras Gravel Pit		D1169/004/02	RD1(UK)NT, LBAP[CON, DEN], LI[VC48, VC49, VC50, VC51, VC52]	3
<i>Hyacinthoides non-scripta</i> (Bluebell / Clychau'r Gog)	SJ3653	21/05/2013	Shanklin, J.			Borras Head		D1169/004/02	WCA8, LBAP[ANG, CON, FLI, SNP]	3
<i>Hyacinthoides non-scripta</i> x <i>hispanica</i> = <i>H. x massartiana</i> (Bluebell / Clychau'r Gog Croesryw)	SJ3653	21/05/2013	Shanklin, J.			Borras Head		D1169/004/02	INNS	3
<i>Impatiens glandulifera</i> (Himalayan Balsam / Jac y Neidiwr)	SJ3744952754	20/03/2015	Anon - BASC				Seen frequently	D1625/001/01	INNS, WCA9	1
<i>Lathyrus nissolia</i> (Grass Vetchling / Ytbyesen Feinddail)	SJ3652	14/08/2016	Gittins, G.			Borras Gravel Pit		D1169/004/02	LI[VC49, VC50]	3
<i>Potamogeton obtusifolius</i> (Blunt-leaved Pondweed / Dyfrllys Dail Aflym)	SJ379538	15/07/2014	Formstone, J.B.			Common Wood Farm	Pulled by Hand	D1169/004/02	LI[VC49, VC50]	3
<i>Prunus laurocerasus</i> (Cherry Laurel / Coeden Lawrgeirios)	SJ3752	21/05/2013	Shanklin, J.			Borras Hall Lane	Bird sown	D1169/004/02	INNS	3
<i>Rhododendron ponticum</i>	SJ3752	21/05/2013	Shanklin, J.			Borras Hall Lane		D1169/004/02	INNS, WCA9	3

Reptiles and Amphibians										
Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	QA
<i>Rana temporaria</i> (Common Frog / Llyffant Melyn)	SJ37495247	14/06/1993	Anon - Herpetofauna Consultants International					D1121/002/01	Bern, HDir, WCA5, LBAP[ANG, CON, FLI]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ37335324	20/04/2016	Anon - Etive Ecology Ltd	Peak count; 1		Borras Hall Farm	Pond near Borras Far Wood. GCN survey	D1725/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	4
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ37265286 (Supplied by Original Recorder)	2 records, between 1993 and 14/06/1993	Anon - Herpetofauna Consultants International; Anon - CCW	Present		Borras Hall Farm		D1121/001/01 , D0137/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ37495259 (Supplied by Original Recorder)	2 records, between 1993 and 14/06/1993	Anon - Herpetofauna Consultants International; Anon - CCW	Present		Borras Hall Farm		D1121/001/01 , D0137/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ37435261 (Approximate)	2 records, between 1993 and 14/06/1993	Anon - CCW; Anon - Herpetofauna Consultants International	Present		Borras Hall farm		D0137/001/01 , D1121/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ37495247 (Approximate)	2 records, between 1993 and 14/06/1993	Anon - CCW; Anon - Herpetofauna Consultants International	Present		Bourton Hall		D0137/001/01 , D1121/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ37805246 (Supplied by Original Recorder)	2 records, between 1993 and 14/06/1993	Anon - Herpetofauna Consultants International; Anon - CCW	Present		Borras Hall Farm		D1121/001/01 , D0137/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ37395231 (Approximate)	2 records, between 1993 and 14/06/1993	Anon - CCW; Anon - Herpetofauna Consultants International	Present		Bourton Hall		D0137/001/01 , D1121/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ38605314 (Approximate)	2 records, between 1993 and 15/06/1993	Anon - CCW; Anon - Herpetofauna Consultants International	Present		New Farm		D0137/001/01 , D1121/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ38405252 (Approximate)	2 records, between 1993 and 15/06/1993	Anon - CCW; Anon - Herpetofauna Consultants International	Present		Plas Bostick		D0137/001/01 , D1121/001/01	Bern, EPS, HDir, RD2(UK), S7, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3

Statutory Sites intersecting 1000m buffer	None
Wildlife Sites intersecting 1000m buffer	W356: Borras Wood North (112m)
NWWT Reserves intersecting 1000m buffer	None
RSPB Reserves intersecting 1000m buffer	None
RIGS intersecting 1000m buffer	None
Ancient Woodland intersecting 1000m buffer	28970: Ancient Semi Natural Woodland (111m), 49613: Ancient Woodland Site of Unknown Category (112m), 49294: Ancient Woodland Site of Unknown Category (114m), 33487: Ancient Semi Natural Woodland (357m), 28969: Ancient Semi Natural Woodland (358m), 33489: Ancient Semi Natural Woodland (413m)
Phase I Habitats intersecting 1000m buffer (Habitat at central point shown in red, if found)	A.1.1.2: Planted Broad-leaved Woodland (4.88% / 153,257 sq.m), A.1.2.2: Planted Coniferous Woodland (0.17% / 5,198 sq.m), A.1.3.2: Planted Mixed Woodland (0.2% / 6,422 sq.m), B.2.2: Semi-improved Neutral Grassland (0.09% / 2,883 sq.m), B.4: Improved Grassland (69.37% / 2,178,926 sq.m) , B.5: Marshy Grassland (0.03% / 817 sq.m), G.1: Standing Water (0.34% / 10,721 sq.m), I.2.1: Quarry (0.43% / 13,655 sq.m), J.1.1: Arable (18.71% / 587,829 sq.m), J.1.5: Gardens (0.24% / 7,384 sq.m), J.3.6: Buildings (3.5% / 110,082 sq.m)