

Trevor Basin Car Park

Butterfly Survey Technical Note

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Butterfly Survey Technical Note

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1 Introduction

1.1 Background

- 1.1.1 Arcadis Consulting (UK) Limited was commissioned by Wrexham County Borough Council to complete an Ecological Impact Assessment (EcIA) to support a planning application which seeks consent for access improvements and a new visitor car park with associated vehicular access on the brownfield site locally recognised as the “Flexsys Site” hereafter called “the Site”. This project forms part of a programme of work to improve movement infrastructure at key destination sites in Wrexham County Borough and Denbighshire, following a successful joint County Borough application to the UK Government Levelling Up Fund. This project is for a new arrival point and car park primarily for the Pontcysyllte Aqueduct & Canal World Heritage Site (WHS). This EcIA is intended to meet the information requirements of national and local planning policy outlined in Section 3.

1.2 Site Location and Setting

- 1.2.1 The Site is located Queen Street, Cefn Mawr, Wrexham, LL14 3NP, centred at approximate grid reference SJ 27641 42599. The proposed boundary of the development can be found in Image 1, outlined by the red line boundary, and will hereby be referred to as ‘the site’.
- 1.2.2 The Site is situated on a slope (with a largely southwest facing aspect) located on the edge of the village of Cefn Mawr, with residential housing to the north and east, and native broadleaved woodland and grassland to the southwest. Part of the site runs under and to the west of Queen Street, leading to an existing car park (used for the Pontcysyllte Aqueduct World Heritage Site) and Trevor Basin, from where the Pontcysyllte Aqueduct carries the Llangollen Canal across the River Dee to the southwest of the Site.
- 1.2.3 The location of the Site in reference to the wider landscape is displayed in Image 2.



Image 1 – Red Line Boundary



Image 2 – Site in Wider Context, include Pontcysyllte Aqueduct, River Dee, Cefn Mawr

1.3 Scope of Work

- 1.3.1 The scope of this report is to outline the results of the invertebrate surveys conducted across the site. This report includes the results of previously recorded butterflies in the desk study, and the results from the butterfly transect survey.

1.4 Proposed Development

- 1.4.1 This project is for a new arrival point and car park primarily for the Pontcysyllte Aqueduct & Canal WHS, and includes:
- Creation of 252 car parking spaces including electric vehicle charging points. This consists of:
 - 170 standard parking spaces surfaced in reinforced gravel
 - 25 mobility parking spaces surfaced in asphalt
 - 57 overflow parking spaces surfaced in reinforced grass
 - A coach park with the capacity for 9 coach spaces
 - Landscaped footpaths with wayfinding features to guide users towards the Aqueduct
 - Asphalt and reinforced gravel vehicular routes
 - Welcome signage at the entrance of the site
 - Seating for users around the site
 - Gates and fencing around the perimeter of the site:
 - 1.8m high decorative vertical bar railings along Queen Street
 - 1.8m high weld mesh fencing around remaining site boundaries east of Queen Street
 - Additional native tree, woodland, shrub, grass, and fern planting
 - Open mosaic habitat creation
 - Two drainage ponds for SuDS attenuation
 - Two newly created great crested newt ponds
 - Safeguarded location for a future kiosk and toilet block
- 1.4.2 This project represents a significant investment to help ensure the Trevor Basin Area current visitor levels are maintained and appropriately catered for. This forms part of a wider masterplan for the Trevor Basin and surrounding area, which is described further within the Design and Access Statement which accompanies this planning application.

2 Methodology

2.1 Desk Study

- 2.1.1 A desk study was conducted by Arcadis in July 2024. Existing ecological information relating to the site and its surroundings was obtained as part of the assessment. For the purpose of this Annex, only the data relating to butterflies and moths have been included in this report.
- 2.1.2 The following data sources were utilised for the desk study:
- COFNOD (North Wales Environmental Information Service) was approached to provide ecological records within 2km of the site. Only species recorded within the last 20 years were included in the assessment;
 - MAGIC (Multi-Agency Geographical Information for the Countryside) was consulted for statutory designated sites listing butterflies within the citation

2.2 Butterfly Survey Methodology

- 2.2.1 After consultation with the Local Planning Authority Ecologist, review of the desk study records (presented in section 3.1 below) and common caterpillar food-plants recorded on site, the butterfly surveys targeted species listed under section 7 of the Environment (Wales) Act (2016) dingy skipper (*Erynnis tages*), grizzled skipper (*Pyrgus malvae*), and wall butterfly (*Lasiommata megera*), with a secondary consideration of all other butterfly species, based on methodologies used by Butterfly Conservation and UK Butterfly Monitoring Scheme (UKBMS).
- 2.2.2 Surveys were conducted during optimal flight times for butterflies (between 10am and 4pm) and aimed for suitable weather conditions: temperatures between 13°C and 17°C with ≥60% sunshine, or cloudy but ≥17°C. Surveys were not conducted when wind speeds were above force five on the Beaufort scale (fresh breeze) at the start of the survey, or during any level of precipitation.

Targeted 'Stopping Point' Surveys

- 2.2.3 Although a transect survey is one of the most commonly used methodologies for butterflies, it was determined that because the locations of suitable habitat for the targeted species were small and sporadic, a transect walk alone would not be sufficient; therefore, the transect survey was combined with point counts (modified from UKBMS methodology for monitoring purple hairstreak, UKBMS, 2024^a). This method incorporated 'stopping points' for surveyors to stop and record species during a set period of time (2 minutes) at locations with an abundance of known caterpillar foodplants.
- 2.2.4 Three 'stopping point' surveys were conducted during the adult flying period (June), with a total of 15 'stopping points' selected for the presence of suitable habitats for dingy skipper, grizzled skipper, and wall butterfly. The locations of these are illustrated on Figure 2 in Annex A and Annex C provides details of each stopping point. The common foodplants on site included bird's-foot-trefoil, bramble, Rosaceae sp., and wild strawberry, with large areas of grassland containing Yorkshire fog (*Holcus lanatus*).

- 2.2.5 At each stopping location, surveyors monitored the suitable habitat for two minutes counting the number of individuals in the area.

Butterfly Transect

- 2.2.6 As a complementary method, a transect was designed following a modified version of the methodology used in the UKBMS (UKBMS, 2024^b), to record all species of butterfly within the sites red line boundary.
- 2.2.7 Given the size of the site, the limited access into particular areas, and the sporadic nature of suitable habitats, 3km in length and split relatively evenly into 15 sections. As the stopping point locations for dingy skipper, grizzled skipper and wall butterfly were situated across the majority of the site, the transect was designed using these locations as the points between sections. This allowed the two surveys to be conducted in tandem.
- 2.2.8 The transect sections also incorporated all suitable areas of habitat for butterflies, including woodland rides, patches of scrub, and areas of grassland, in a predominately urban, unsuitable landscape. The layout of the transect can be found in Figure 2 in Annex A.
- 2.2.9 A total of six transect surveys were completed, three occurring in June and three occurring in July. During each transect walk, all butterfly species were recorded when seen and identified to species level when possible, otherwise were recorded to at least family. Butterflies behind the surveyors were not recorded to reduce the risk of double counting.
- 2.2.10 Any butterflies spotted outside of the butterfly surveys were recorded as incidental.

2.3 Survey Dates and Times

- 2.3.1 Table 1 below summarises the dates and times of the surveys, including the weather conditions for each visit.

Table 1 – Survey Dates, Time and Weather Conditions

Date	Start Time	End Time	Surveyors	Start/End Temperature	Precipitation	Windspeed (beaufort)
07/06/2024	10:30am	12:00pm	Rachel Sore Tyler Meaden	13°C/15°C	None	19-24mph (5)
12/06/2024	10:30am	13:00pm	Rachel Sore Tyler Meaden	12°C/13°C	None	4-7mph (2)
19/06/2024	10:30am	13:00pm	Duncan Macaulay Tyler Meaden	13°C/18°C	None	1-3mph (1)
26/07/2024	10:30am	12:00pm	Ewan Gibson Tyler Meaden	18°C/20°C	None	1-3mph (1)
01/08/2024	10:30am	11:45am	Tyler Meaden Vicky Handby	19°C/21°C	None	1-3mph (1)
09/08/2024	10:30am	12:00pm	Tyler Meaden Rebecca Booth	18°C/19°C	None	4-7mph (2)

2.4 Survey Limitations

- 2.4.1 Weather conditions during the survey conducted on 7 August were not optimal for butterfly activity, with relatively low temperatures, high cloud cover and wind speeds bordering an acceptable speed. Various spells of warm sunlight did occur during the start of the survey. Considering the small number of individuals and no targeted species recorded in the 2nd and 3rd surveys (both within suitable conditions), it is considered these results still represent the number of butterflies on the site during June.

3 Results

3.1 Desk Study

Statutory Designated Sites

- 3.1.1 The site is situated within 2km of the SSSI designated Afon Dyfrdwy (River Dee), which is stated to support Grayling, an Annex V butterfly species in the EC Habitats Directive (Directive 92/43/EEC on the Conservation of Natural Habitats and of Wild Fauna and Flora). The River Dee is part of the SAC River Dee and Bala Lake but is not designated for any butterfly species.

Non-statutory Designated Sites

- 3.1.2 The site is also situated within the Northeast Wales Important Invertebrate Area designated for supporting 46 species of conservation concern including white-letter hairstreak (Buglife, 2023).
- 3.1.3 Of the eight Local Wildlife Sites (LWS) within 2km of the site, none are designated or mentioned butterfly species in their citation.

Species Records

- 3.1.4 The locations of the desk study records for butterflies are illustrated on Figure 1: Desk Study Records in Annex A.
- 3.1.5 The desk study returned a total 51 records of six species of protected/notable butterfly within 2km of the site red line boundary, dark green fritillary (*Speyeria aglaja*), holly blue (*Celastrina argiolus*), purple hairstreak (*Favonius quercus*), wall, and white-letter hairstreak. The closest butterfly record was of holly blue recorded 0.301km of the site in 2023 and is currently listed in the Conwy Local Biodiversity Action Plan.
- 3.1.6 Table 2 below provides details of the species returned in the desk study and their designations.

Table 2 – Desk Study Records

Species Name	Common Name	No. Records	Latest Record	Closest Record (km)	Designations
<i>Erynnis tages</i>	Dingy Skipper	4	2007	1.15	Conwy Local Biodiversity Action Plan Flintshire Local Biodiversity Action Plan Gwynedd Local Biodiversity Action Plan Section 7 Environment (Wales) Act 2016 Red listed as Vulnerable
<i>Celastrina argiolus</i>	Holly Blue	23	2024	0.301	Conwy Local Biodiversity Action Plan
<i>Favonius quercus</i>	Purple Hairstreak	8	2022	1.63	Conwy Local Biodiversity Action Plan
<i>Lasiommata megera</i>	Wall	2	2020	1.42	Gwynedd Local Biodiversity Action Plan Section 7 Environment (Wales) Act 2016 Red listed as Near Threatened
<i>Satyrrium w-album</i>	White-letter Hairstreak	25	2023	1.42	Flintshire Local Biodiversity Action Plan Section 7 Environment (Wales) Act 2016 Schedule 5 WCA 1981 (Sale Only) Red listed as Endangered

- 3.1.7 Although SSSI designated Afon Dyfrdwy (River Dee) located within 2km is stated to support grayling, and white-letter hairstreak was present within 2km, the site did not support the common food plants or mature elm for these species. Therefore, these species were not included within the targeted 'stopping point' surveys and were only covered in the complementary transect.

3.2 Butterfly Field Survey

- 3.2.1 All results from the field surveys are illustrated on figure 2 in Annex A.

Stopping Point surveys

Dingy Skipper, Grizzled Skipper, and Wall

- 3.2.2 Three stopping points surveys were conducted for dingy skipper, grizzled skipper, and wall butterfly between June and July 2024. Of these surveys, only one recording of dingy skipper was made at stopping point BS8. Although BS8 did not contain bird's-foot-trefoil or other common foodplants, the area was located in close proximity to an area with a small patch of trefoil.
- 3.2.3 Grizzled skipper was not recorded at any of the stopping point locations.
- 3.2.4 Wall butterfly was not recorded at any of the stopping point locations.

Transect Survey

- 3.2.5 Of the six surveys undertaken between June and August, a total 62 butterflies were recorded consisting of ten species: comma (*Polygonia c-album*), gatekeeper (*Pyronia tithonus*), green-veined white (*Pieris napi*) large white (*Pieris brassicae*), meadow brown (*Maniola jurtina*), peacock (*Aglais io*), red admiral (*Vanessa atalanta*), ringlet (*Aphantopus hyperantus*), small tortoiseshell (*Aglais urticae*), and speckled wood (*Pararge aegeria*). Neither of these species are protected and/or notable.
- 3.2.6 Grayling and White-letter hairstreak and other section 7 species were not recorded during the transects.
- 3.2.7 Table 3 provides the full details of species recorded during the transect visits at each transect section.

Table 3 – Survey Results for each Transect Visit and Transect Section

Visit	1	2	3	4	5	6
BT1	-	-	-	-	-	1 Large White 1 Pieris sp.
BT2	-	-	-	-	1 Pieris sp.	-
BT3	-	-	-	2 Gatekeeper 2 Ringlet	2 Gatekeeper 1 Pieris sp. 1 Ringlet	-
BT4	-	-	1 Meadow Brown	1 Small Tortoiseshell	1 Peacock	1 Pieris sp. 3 Large White
BT5	-	-	-	1 Pieris sp.	1 Peacock	-
BT6	-	-	-	-	1 Peacock 1 Large White	-
BT7	-	-	-	-	1 Gatekeeper	-
BT8	-	1 Meadow Brown	-	1 Pieris sp. 1 Small Tortoiseshell 1 Gatekeeper	2 Peacock 1 Green-veined white	1 Pieris sp. 2 Peacock
BT9	-	-	1 Speckled Wood	3 Gatekeeper 3 Pieris sp.	2 Gatekeeper 1 Meadow Brown 1 Ringlet	2 Gatekeeper

Visit	1	2	3	4	5	6
BT10	-	-	-	-	-	-
BT11	-	-	-	-	-	-
BT12	-	-	-	-	-	1 Peacock 1 Large White
BT13	-	-	-	1 Pieris sp.	-	2 Peacock
BT14	-	-	-	-	1 Peacock	-
BT15	-	-	-	1 Comma	2 Peacock	2 Peacock 1 Large White 1 Red Admiral
BT16	-	-	-	-	2 Peacock 1 Pieris sp.	1 Peacock

Incidentals

- 3.2.8 In the event any butterflies were spotted and recorded on site, while not undertaking the butterfly survey, such as during other protected species surveys, locations were recorded as incidentals.
- 3.2.9 A total four butterflies were incidentally recorded during other protect species surveys, two dingy skipper, peacock (*Aglais io*), and orange-tip (*Anthocharis cardamines*). Both dingy skipper records were of separate individuals recorded on the same day, one located at stopping point location BS10 within patches of bare ground and bird's-foot-trefoil, and the other nearby within transect section BT11.
- 3.2.10 Peacock was recorded in the east of the site in transect section BT7, and orange-tip in the centre of the site in section BT15. Neither peacock or orange-tip are listed as protected/or notable species.

4 Conclusion

- 4.1.1 The site supports common foodplants for dingy skipper and grizzled skipper across the whole site in small sporadic locations and only two locations suitable for wall butterfly. The results confirm dingy skipper is present on the site in small numbers and utilise areas of bare ground and common bird's-foot-trefoil, alongside a variety of common widespread species.
- 4.1.2 No sightings of grizzled skipper, grayling, wall, or white-letter hairstreak on the site in the desk study and field surveys suggest it is unlikely that they are present on site.

5 References

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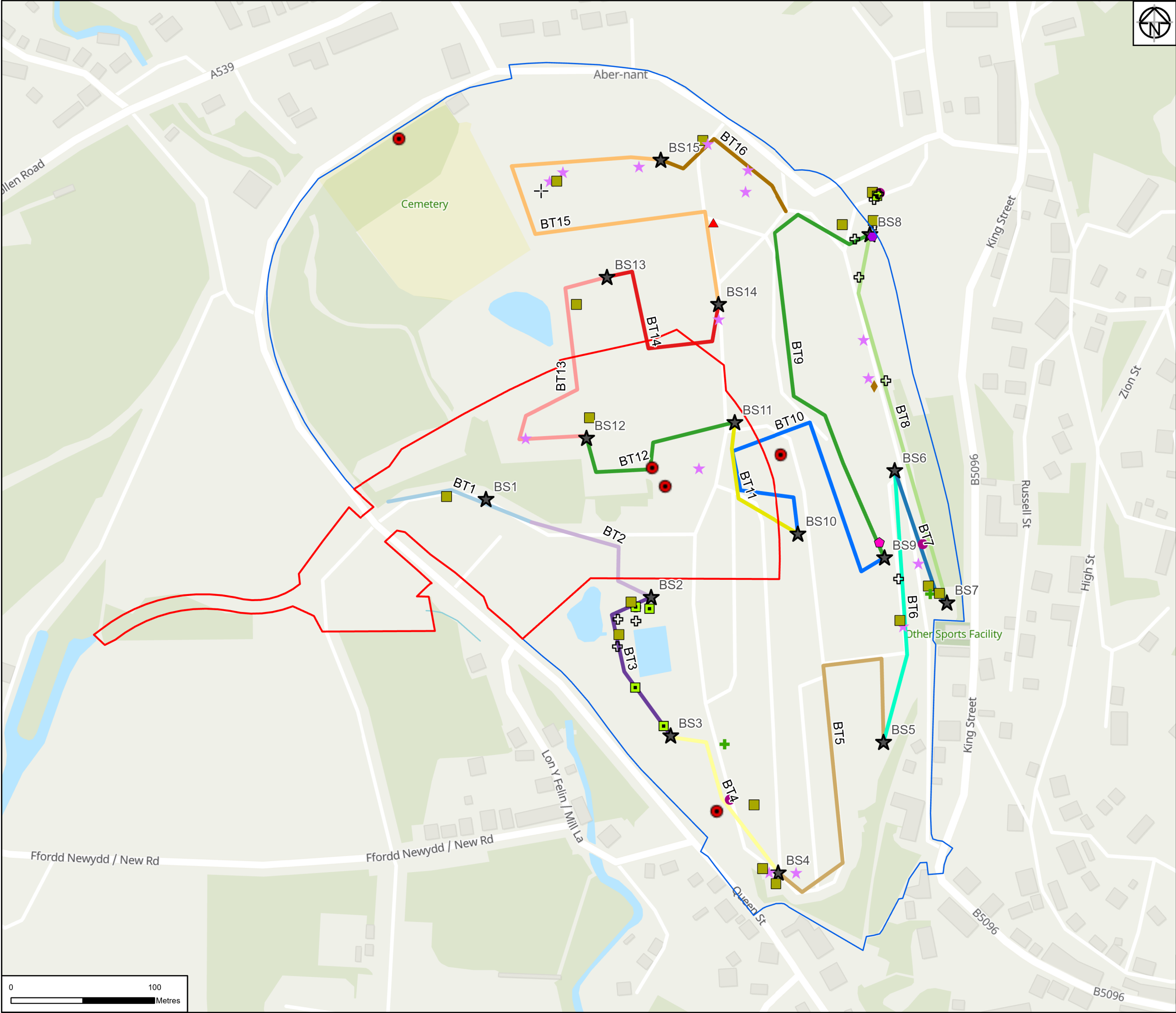
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Figure 1 – Survey Transect, Stopping Points and Result Locations

Annex A

Figure 1 – Survey Transect, Stopping Points and Result Locations



Survey Area

Site Boundary

Incidental Records

Butterfly Stopping Points

Survey Records

Speckled wood

Comma

Dingy skipper

Red admiral

Green-veined white

Small tortoiseshell

Meadow brown

Ringlet

Gatekeeper

Peacock

Large white

BT7

BT8

BT9

BT10

BT11

BT12

BT13

BT14

BT15

BT16

Butterfly Route

Transect

BT1

BT2

BT3

BT4

BT5

BT6

Notes: GB Topographic. Contains OS data © Crown Copyright and database right 2023
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World Topographic Map: Esri UK, Esri, TomTom, Garmin, Foursquare, GeoTechnologies, Inc, METI/NASA, USGS

01	22/08/24	INITIAL ISSUE	SS	NM	SJ
Rev	Date	Description	Drawn	Check	Approv

PROJECT:

TREVOR BASIN CAR PARKING AND ACCESS

Site

Pontcysyllte, Wales

Client

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Title:			
Figure 1 - Butterfly Survey Results			
Designed	T. Meaden	Date 22 AUG 24	Signed
Drawn	S. Sarkar	Date 22 AUG 24	Signed
Checked	N.Madden	Date 22 AUG 24	Signed
Approved	S. Jones	Date 22 AUG 24	Signed
Scale:	1:2,500	Datum:	AOD
Original Size:	A3	Grid:	OS
Suitability Code:	S2	Project Number:	10054502
Suitability Description:			
For Information			
Drawing Number:		XXX	Revision: P01

Annex B

Biology Of Targeted Protected Species

The following species are protected/notable species in Wales, listed under section 7 of the Environment (Wales) act (2016) and are targeted in 'stopping point' surveys. The following information is obtainable from the Butterfly Conservation (2024).

Dingy Skipper (*Erynnis tages*)

Legislation/Conservation Status

Dingy skipper is both listed as a species of principle importance in section 41 of the NERC act (2006) and listed in section seven of the Environment (Wales) act (2016).

Taxonomy

Order: Lepidoptera (Butterflies and Moths), Family: Hesperidae (Skippers), Genus: *Erynnis*

Common Caterpillar Foodplants

The main caterpillar foodplants for this species in all habitat types is common bird's-foot-trefoil (*Lotus corniculatus*), but horseshoe vetch (*Hippocrepis comosa*) is commonly used on calcareous soils, and greater bird's-foot-trefoil (*Lotus pedunculatus*) on heavier soils.

Lifecycle

- Adult: Late May – Early July, and briefly Mid-August
- Chrysalis: Late April – Late May
- Caterpillar: Late August – Early April, and briefly Mid-August
- Egg: Late May – Late July

Grizzled Skipper (*Pyrgus malvae*)

Legislation/Conservation Status

Grizzled skipper is both listed as a species of principle importance in section 41 of the NERC act (2006) and listed in section seven of the Environment (Wales) act (2016).

Taxonomy

Order: Lepidoptera (Butterflies and Moths), Family: Hesperidae (Skippers), Genus: *Pyrgus*

Common Caterpillar Foodplants

The main caterpillar foodplants for this species are agrimony (*Agrimonia eupatoria*), creeping cinquefoil (*Potentilla reptans*), and wild strawberry (*Fragaria vesca*). However, grizzled skipper is known to also use barren strawberry (*Potentilla sterilis*), tormentil (*Potentilla reptans*), salad burnet (*Sanguisorba minor*), bramble (*Rubus fruticosus*), dog-rose (*Rosa canina*), and wood avens (*Geum urbanum*).

Lifecycle

- Adult: Early May – Late June, and briefly Mid-August
- Chrysalis: Late July – Early May

- Caterpillar: Early May – Late July
- Egg: Early May – Early July

Wall (*Lasiommata megera*)

Legislation/Conservation Status

Wall is both listed as a species of principle importance in section 41 of the NERC act (2006) and listed in section seven of the Environment (Wales) act (2016).

Taxonomy

Order: Lepidoptera (Butterflies and Moths), Family: Nymphalidae (Browns), Genus: *Lasiommata*

Common Caterpillar Foodplants

The main caterpillar foodplants for this species are tor-grass (*Brachypodium pinnatum*), false brome (*Brachypodium sylvaticum*), cock's-foot (*Dactylis glomerata*), bents (*Agrostis* spp.), wavy hair-grass (*Deschampsia flexuosa*), and yorkshire-fog (*Holcus lanatus*).

Lifecycle

- Adult: Late April – Late June, Late July – Early September, and Early – Mid-October
- Chrysalis: Early April – Late May, Early July to Early August, and Late September
- Caterpillar: Late May – Late June, Early August to Early September, and Early October – Early April
- Egg: Mid-May – Late June, Early August to Mid-September, and October

Annex C

Dingy Skipper, Grizzled Skipper and Wall Butterfly Stopping Point Locations

Stopping Point ID	Foodplants Present	Target Species	Photo
BS1	Rosaceae sp. Bramble	Grizzled Skipper	
BS2	Bramble Yorkshire Fog	Grizzled Skipper Wall	

Dingy Skipper, Grizzled Skipper and Wall Butterfly Stopping Point Locations

Stopping Point ID	Foodplants Present	Target Species	Photo
BS3	Bird's-foot-trefoil	Dingy Skipper	
BS4	Dog-rose (<i>Rose canina</i>) Bramble	Grizzled Skipper	
BS5	Bird's-foot-trefoil Wild Strawberry	Dingy Skipper Grizzled Skipper	

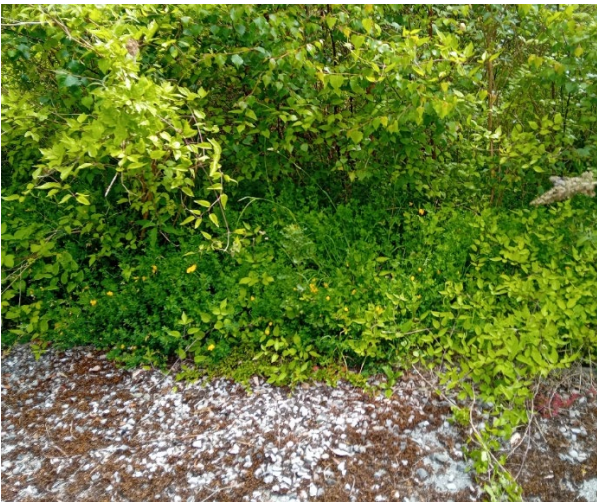
Dingy Skipper, Grizzled Skipper and Wall Butterfly Stopping Point Locations

Stopping Point ID	Foodplants Present	Target Species	Photo
BS6	Bird's-foot-trefoil	Dingy Skipper	
BS7	Bramble Dog-rose	Grizzled Skipper	
BS8	Bramble Yorkshire Fog	Grizzled Skipper Wall	

Dingy Skipper, Grizzled Skipper and Wall Butterfly Stopping Point Locations

Stopping Point ID	Foodplants Present	Target Species	Photo
BS9	Bird's-foot-trefoil	Dingy Skipper	
	Wild Strawberry	Grizzled Skipper	
BS10	Bird's-foot-trefoil	Dingy Skipper	
BS11	Bird's-foot-trefoil	Dingy Skipper	

Dingy Skipper, Grizzled Skipper and Wall Butterfly Stopping Point Locations

Stopping Point ID	Foodplants Present	Target Species	Photo
BS12	Bird's-foot-trefoil	Dingy Skipper	
BS13	Wild Strawberry	Grizzled Skipper	
BS14	Bird's-foot-trefoil Bramble	Dingy Skipper Grizzled Skipper	

Dingy Skipper, Grizzled Skipper and Wall Butterfly Stopping Point Locations

Stopping Point ID	Foodplants Present	Target Species	Photo
BS15	Dog-rose	Grizzled Skipper	

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