



# Craig y Perthi Solar Farm

## Environmental Statement

### Appendix 6.8 Shrill Carder Bee Survey Report

Prepared for



JBM Solar Projects 25 Limited

July 2023  
3312-01-TA06-008



# Document Control

Revision	Date	Longleaf	Reviewed / Approved By
3312-01-TA06-008	July 2023	Western Ecology	Steve Harding

© AXIS P.E.D. Ltd 2023. All rights reserved.

This document and its accompanying documents contain information which is confidential and is intended only for the use of the client. If you are not one of the intended recipients any disclosure, copying, distribution or action taken in reliance on the contents of the information is strictly prohibited.

Unless expressly agreed, any reproduction of material from this document must be requested and authorised in writing from AXIS P.E.D. Ltd. Authorised reproduction of material must include all copyright and proprietary notices in the same form and manner as the original and must not be modified in any way. Acknowledgement of the source of the material must also be included in all references.



Well House Barns, Chester Road, Bretton, Chester, CH4 0DH

Camelia House, 76 Water Lane, Wilmslow, Cheshire, SK9 5BB

T: 0344 8700 007  
enquiries@axis.co.uk  
www.axis.co.uk

# Shrill Carder Bee Survey

## Craig Y Perthi Solar Farm

June 2023

A report by

Colin Hicks BSc (Hons) MCIEEM, Principal Ecologist



## Report details

Central grid reference: ST 392 876  
Report date: 3<sup>rd</sup> June 2023  
Report review: Colin Hicks BSc (Hons) MCIEEM  
  
Report reference: CYP\_SCB\_3843\_030623

## Declaration of compliance

### BS 42020:2013

This study has been undertaken in accordance with British Standard 42020:2013 Biodiversity, Code of Practice for Planning and Development.

### Code of Professional Conduct

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

## Validity of survey data and report

The findings of this report are valid for 24 months from the date of survey. If work has not commenced within this period, an updated survey by a suitably qualified ecologist will be required.

## Revisions

Date	Report no:	Comment
3 <sup>rd</sup> June 2023	CYP_SCB_3843_030623	Original report

## Table of contents

1. Introduction .....	4
1.1. Survey aims .....	4
2. Methodology .....	5
2.1. Desktop survey .....	5
2.2. Field survey .....	5
2.3. Survey constraints .....	5
3. Results.....	6
3.1. Desktop survey .....	6
3.2. Habitat Assessment.....	6
3.3. Field survey.....	6
Map 1. Field survey results .....	7
4. Shrill carder bee conservation status .....	8
5. Assessment of the site value for shrill carder bee .....	8
6. References .....	8

# 1. Introduction

Western Ecology has been commissioned to complete shrill carder bee *Bombus sylvarum* survey on an area of land for Craig Y Perthi Solar, Bishton near Newport.

## 1.1. Survey aims

The aim of this survey is to ascertain whether shrill carder bee and suitable habitat is present within the assessment site.

Where appropriate, the survey will provide the information required to determine the appropriate level of mitigation required to ensure compliance with wildlife legislation and relevant planning policy.

## 2. Methodology

### 2.1. Desktop survey

The data search collated existing biological records of shrill carder bee within 5km that are held by South East Wales Biodiversity Records Centre.

This data was examined and an assessment was then made, based on known habitat preferences, as to whether these species may be present within the site and how they may be affected by the proposal

### 2.2. Field survey

A walkover survey was completed by an ecologist who meets the required competency level. During the walkover the ecologist searched for foraging shrill carder bee. They also mapped areas where suitable pollen sources were likely to be available from plant species with long tubular flowers such as red clover, birds-foot-trefoil, thistles, ragwort and common knapweed. The survey focussed on less improved pasture in the south and east of the assessment site (Map 1).

The survey was completed in August 2021 and updated on 24<sup>th</sup> May 2023 in suitable weather conditions; sunny, dry, 18°C and light NW breeze.

### 2.3. Survey constraints

All areas of the immediate assessment site were readily accessible, and although the optimal period for observing foraging shrill carder bee is August, queens can be seen in May. Habitat potential can be assessed at any time of year. There are no significant constraints to the results of this survey.

## 3. Results

### 3.1. Desktop survey

South East Wales Biodiversity Records Centre provided no records for Shrill Carder Bee within 5km.

### 3.2. Habitat Assessment

The assessment site is predominantly comprised of agricultural grasslands and arable with negligible value for shrill carder bee.

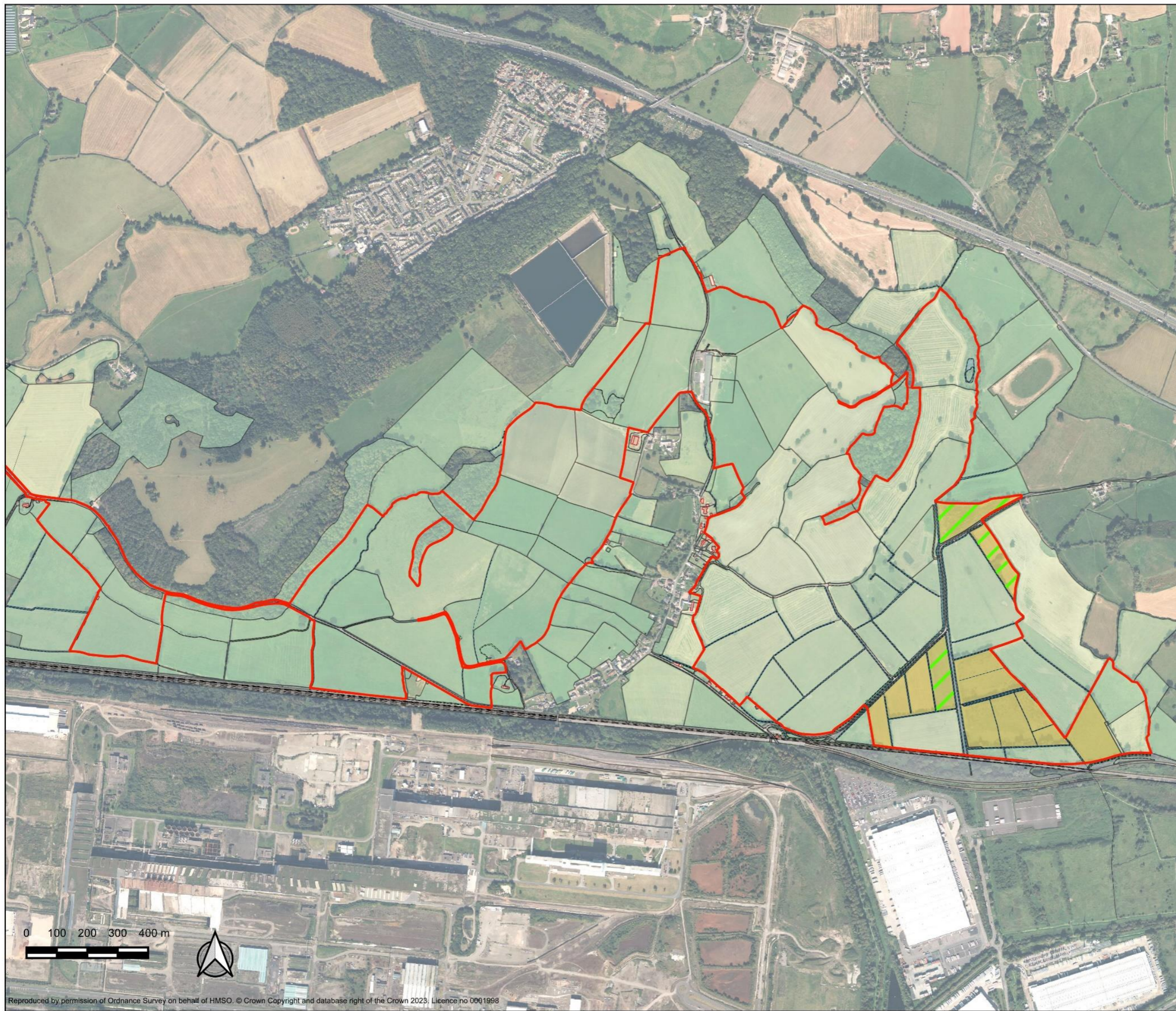
However, red clover *Trifolium pratense* was present in field in the south of the assessment site (Map 1), with two grassland fields in the east supporting a diverse sward including marsh thistle, nettle, common vetch and mammoth clover *Trifolium pratense* var. *sativum*.

These areas provide suitable foraging habitat for shrill carder bee, whilst their low levels of agricultural improvement are likely to promote tussocky areas, along hedges and reens, suitable for nest sites.

### 3.3. Field survey

The extent of the shrill carder bee survey is shown on Map 1. During this survey, no shrill carder bee was recorded within the survey area.





1 Geffery Close  
Landrake  
Saltash  
Cornwall  
PL12 5HA

Tel: 0800 622 6828  
email: office@westernecology.co.uk

**Legend**

- Assessment site
- Shril carder bee habitat survey area
- Shril carder bee habitat

Title: Map 1. Field survey results

Project: Craig Y Perthi Solar Farm

Checked by: CDH Version: 01  
Date: 03/06/2023

0 100 200 300 400 m





## 4. Shrill carder bee conservation status

Shrill carder bee is listed under Section 7 of the Environment (Wales) Act 2016.

## 5. Assessment of the site value for shrill carder bee

Although no evidence of shrill carder bee was recorded, habitat in a small section of the assessment site has potential, although records suggest they are not present in the general area.

The assessment site is of Site value for shrill carder bee.

## 6. References

BSI, 2013. *British Standard 42020: 2013. Biodiversity – Code of practice for planning and development*. British Standards Institution, London.