
Plas Power Solar and Energy Storage Project

4.2 Environmental Statement Volume 2: Figures
Part 2 of 2

February 2024

DNS Ref: DNS/3253253



Schedule of figures included in this document

Document Ref	Document Title
4.2.35	Figure 5.1 Landscape Designations
4.2.36	Figure 5.2 Zone of Theoretical Visibility (ZTV) with Representative Viewpoints
4.2.37	Figure 5.3 Site Location and Field References
4.2.38	Figure 5.4 Landscape Character
4.2.39	Figure 5.5 Landscape Character with ZTV
4.2.40	Figure 5.6 LANDMAP Visual and Sensory Areas
4.2.41	Figure 5.7 LANDMAP Visual and Sensory Evaluation
4.2.42	Figure 5.8 Representative Viewpoint Photographs
4.2.43	Figure 5.9 Photomontages
4.2.44	Figure 5.10 Illustrative Landscape and Ecology Masterplan
4.2.45	Figure 6.1 Habitat Plan
4.2.46	Figure 7.1 Designated Heritage Assets and Zone of Theoretical Visibility
4.2.47	Figure 8.1 Study Area Buffer

PLAS POWER SOLAR AND ENERGY STORAGE PROJECT

Environmental Statement Volume 2 - Figures

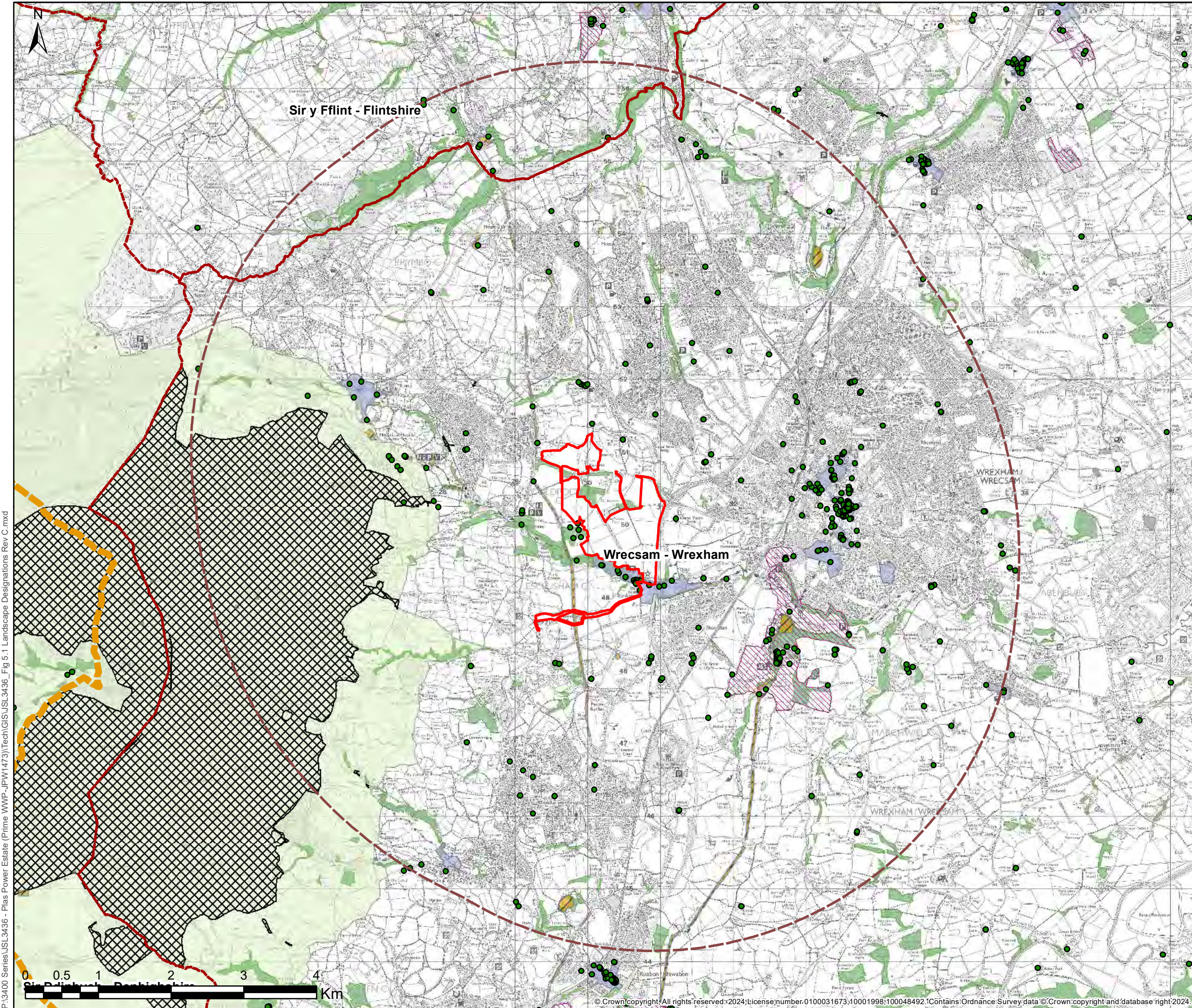
JPW1473
February 2024

Contents

- Figure 5.1 Landscape Designations
- Figure 5.2 Zone of Theoretical Visibility (ZTV) with Representative Viewpoints
- Figure 5.3 Site Location and Field References
- Figure 5.4 Landscape Character
- Figure 5.5 Landscape Character with ZTV
- Figure 5.6 LANDMAP Visual and Sensory Areas
- Figure 5.7 LANDMAP Visual and Sensory Evaluation
- Figure 5.8 Representative Viewpoint Photographs
- Figure 5.9 Photomontages
- Figure 5.10 Illustrative Landscape and Ecology Masterplan
- Figure 6.1 Habitat Plan
- Figure 7.1 Designated Heritage Assets and Zone of Theoretical Visibility
- Figure 8.1 Study Area Buffer

Figure 5.1
Landscape Designations





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- Legend**
- Application Boundary
 - - - Study Area (5km Radius)
 - - - District Boundary
 - National Trails
 - Listed Buildings
 - Conservation Areas
 - ▨ Historic Parks and Gardens
 - ▨ Scheduled Monument
 - ▣ Registered Common Land
 - Area of Outstanding Natural Beauty (AONB)
 - Ancient Woodland

Note: The Application Site falls partly within the EC1: Green Barrier and EC5: Special Landscape Area of the adopted Wrexham UDP 1996-2011. Please refer to Appendix 5.3 for these UDP Plans.

C	New redline area	SH	CL	02/24
Rev	Description	By	CB	Date

rps MAKING COMPLEX EASY
 Lakesbury House, Hillingbury Road, Chandlers Ford, Hampshire SO53 5SS
 T:02380 810 440 E: rpsso@rpsgroup.com

Client Lightsource BP
 Project Plas Power Estate, Ruthin Road
 Title Landscape Designations

Status Information Drawn By KH PM/Checked By GL
 Project Number JSL3436 Scale @ A3 1:50,000 Date Created FEB 2024
 Figure Number 5.1 Rev C

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P:\3400 Series\JSL3436 - Plas Power Estate (Prime WWP-JPW1473)\Tech\GIS\JSL3436 - Fig 5.1 Landscape Designations Rev C.mxd


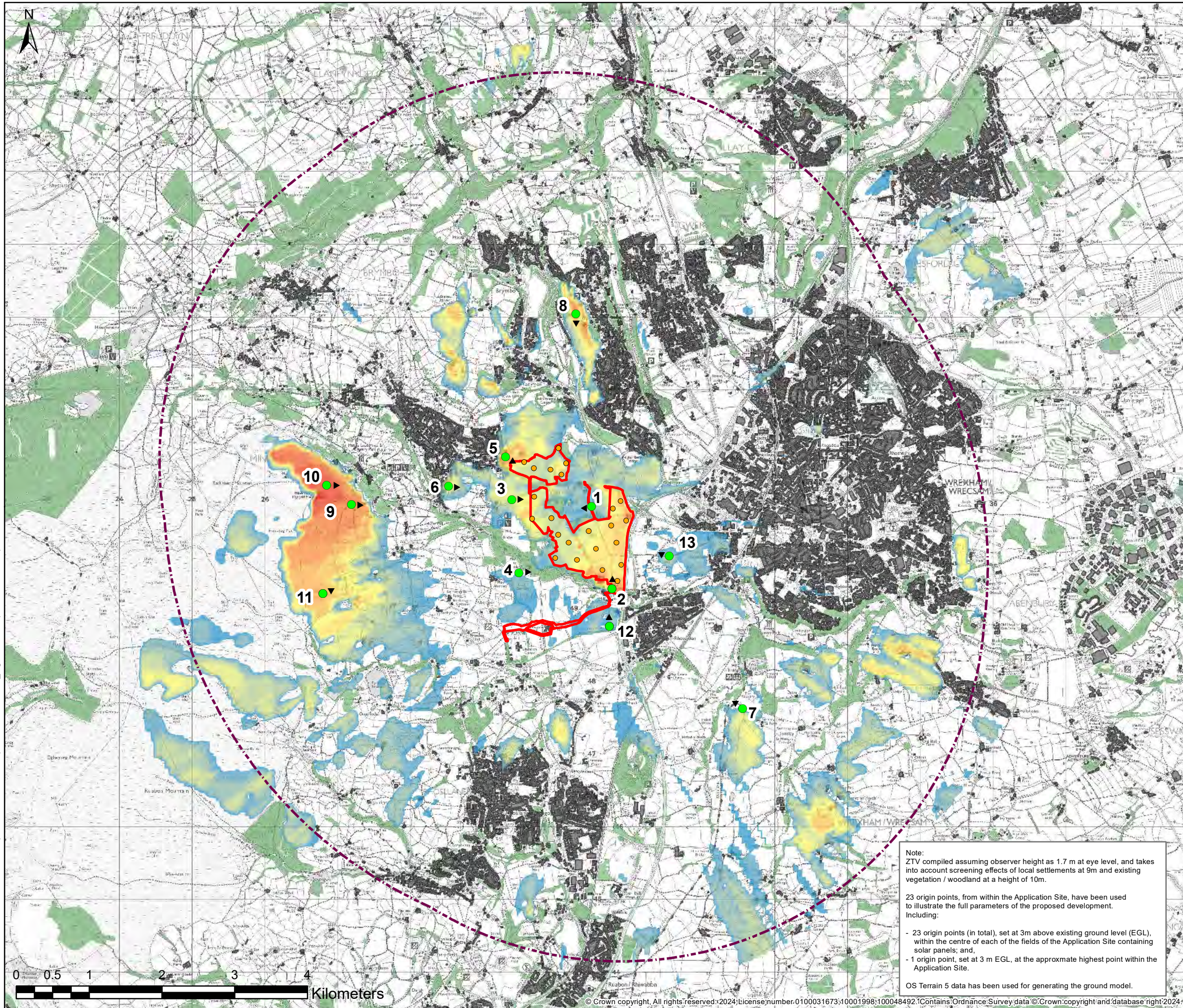


Figure 5.2
Zone of Theoretical Visibility (ZTV)
with Representative Viewpoints

P:\13400 Series\JSL3436 - Plas Power Estate (Prime WWP-JPW1473)\Tech\GIS\JSL3436_Fig 5.2 ZTV Representative Viewpoints RevH.mxd



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Legend

- Application Site Boundary
- - - Study Area (5km Radius)
- Settlement Barriers (9m)
- Vegetation Barriers (10m)
- ▲ Representative Viewpoints
- ZTV Origin Points

ZTV (theoretical extent of the surrounding landscape from where the Proposed Development may be visible)

- Low Visibility (up to 1 origin point)
-
-
- High Visibility (up to 17 origin points)

Rev	Description	By	CB	Date

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Client **Lightsource BP**
 Project **Plas Power Estate, Ruthin Road**
 Title **Zone of Theoretical Visibility (ZTV) - Fixed Solar PVs @ 3m with Representative Viewpoints**

Status	Drawn By	PM/Checked By
Info	KH	PH
Project Number	Scale @ A3	Date Created
JSL3436	1:50,000	Dec 2020
Figure Number		Rev
5.2		H

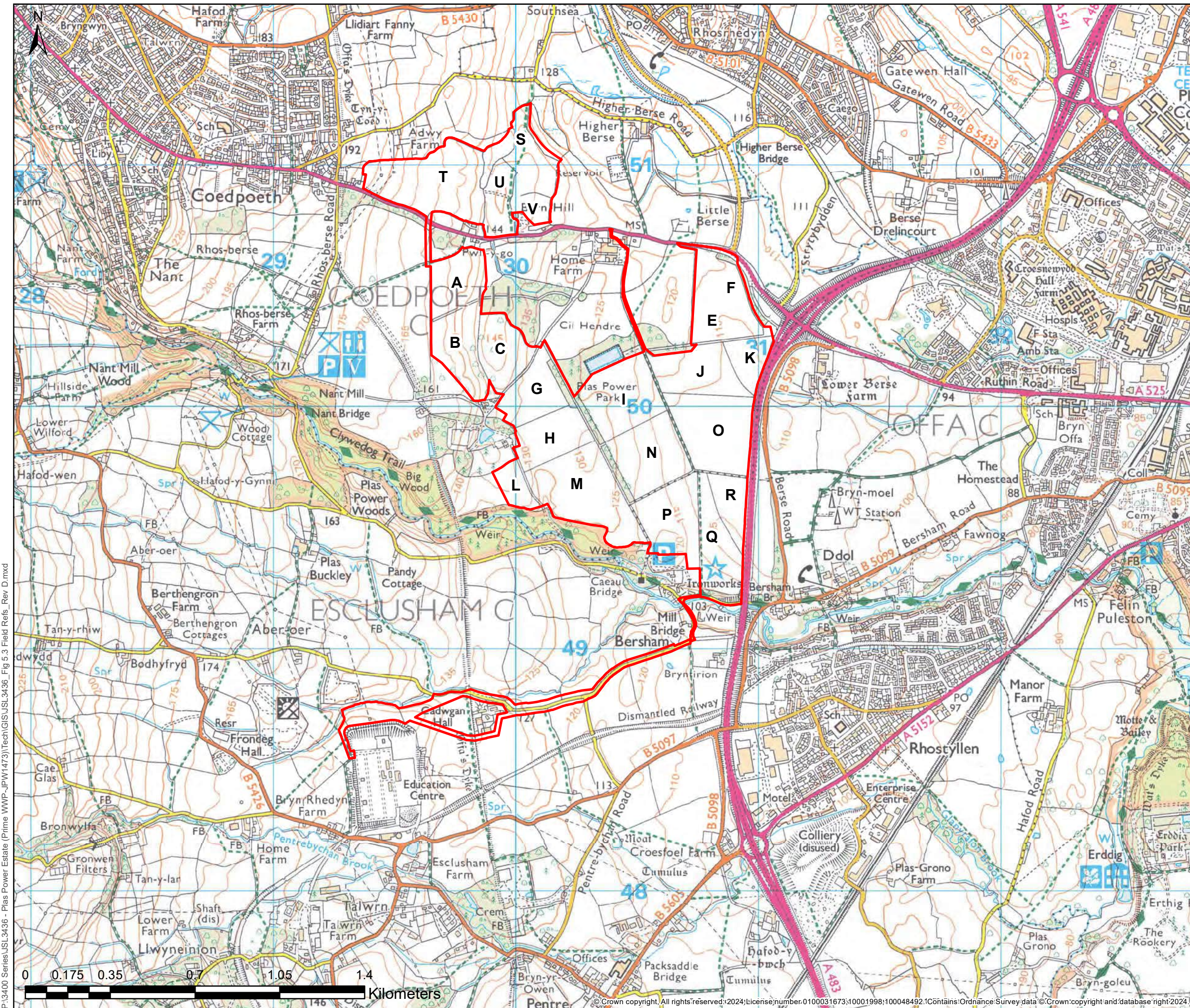
Note:
 ZTV compiled assuming observer height as 1.7 m at eye level, and takes into account screening effects of local settlements at 9m and existing vegetation / woodland at a height of 10m.
 23 origin points, from within the Application Site, have been used to illustrate the full parameters of the proposed development. Including:
 - 23 origin points (in total), set at 3m above existing ground level (EGL), within the centre of each of the fields of the Application Site containing solar panels; and,
 - 1 origin point, set at 3 m EGL, at the approximate highest point within the Application Site.
 OS Terrain 5 data has been used for generating the ground model.

0 0.5 1 2 3 4 Kilometers

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Figure 5.3
Site Location and Field
References



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Legend

A Field Reference

Note:
 Field D removed from Scheme

D	New redline area/Field D removed from scheme	SH	CL	02/24
Rev	Description	By	CB	Date



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Client **Lightsource BP**
 Project **Plas Power Estate, Ruthin Road**
 Title **Application Site Location and Field References**

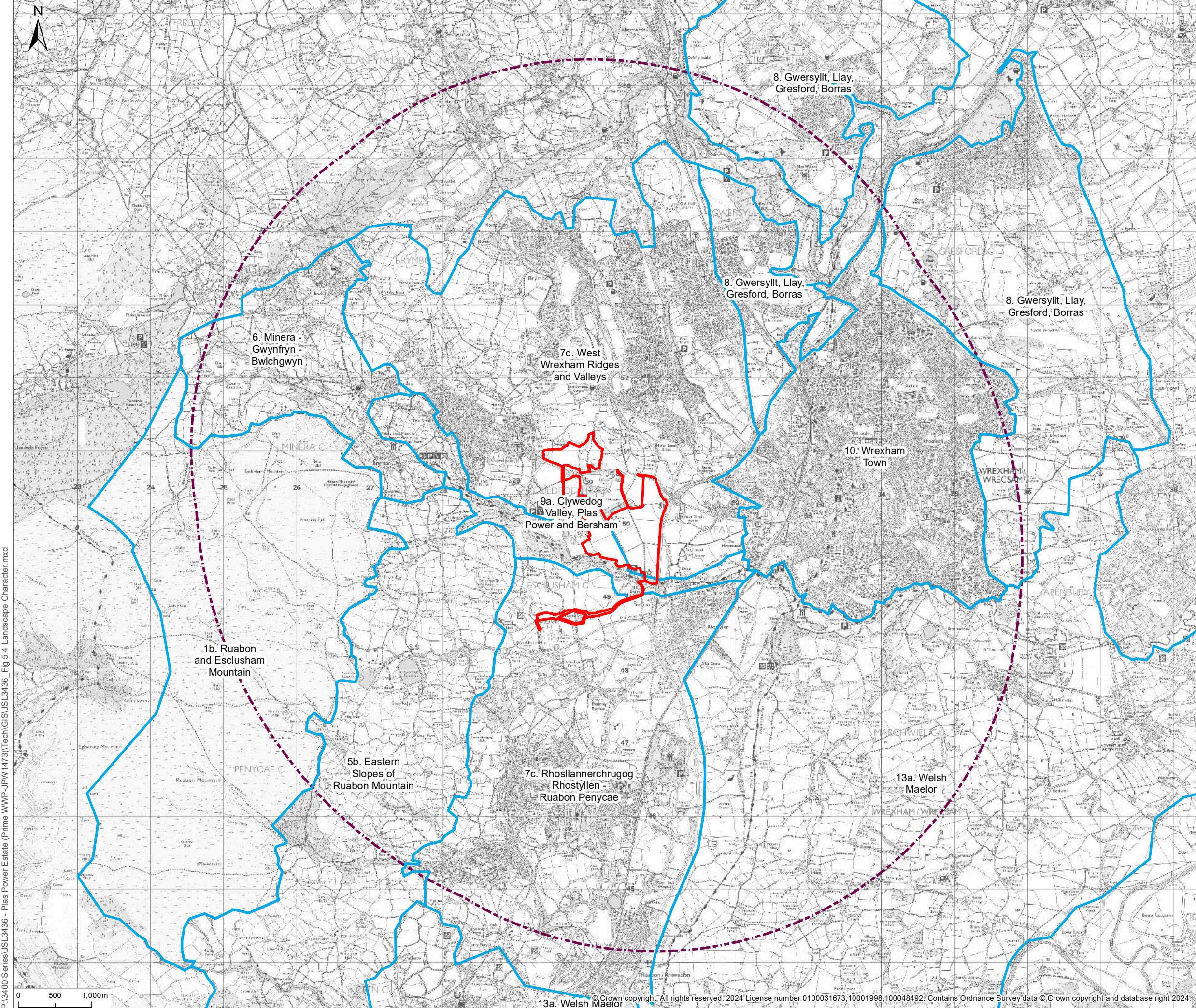
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 Project Number **JSL3436 Scale @ A3 1:15,000 Date Created April 2023**
 Figure Number **5.3 Rev D**

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Figure 5.4
Landscape Character





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Legend

--- Study Area (5km Radius)

□ Wrexham LANDMAP Character Areas

A	New redline area	SH	CL	02/24
Rev	Description	By	CB	Date

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Client Lightsource BP

Project Plas Power Estate, Ruthin Road

Title Landscape Character Areas

Status Information Drawn By JM PM/Checked By CL

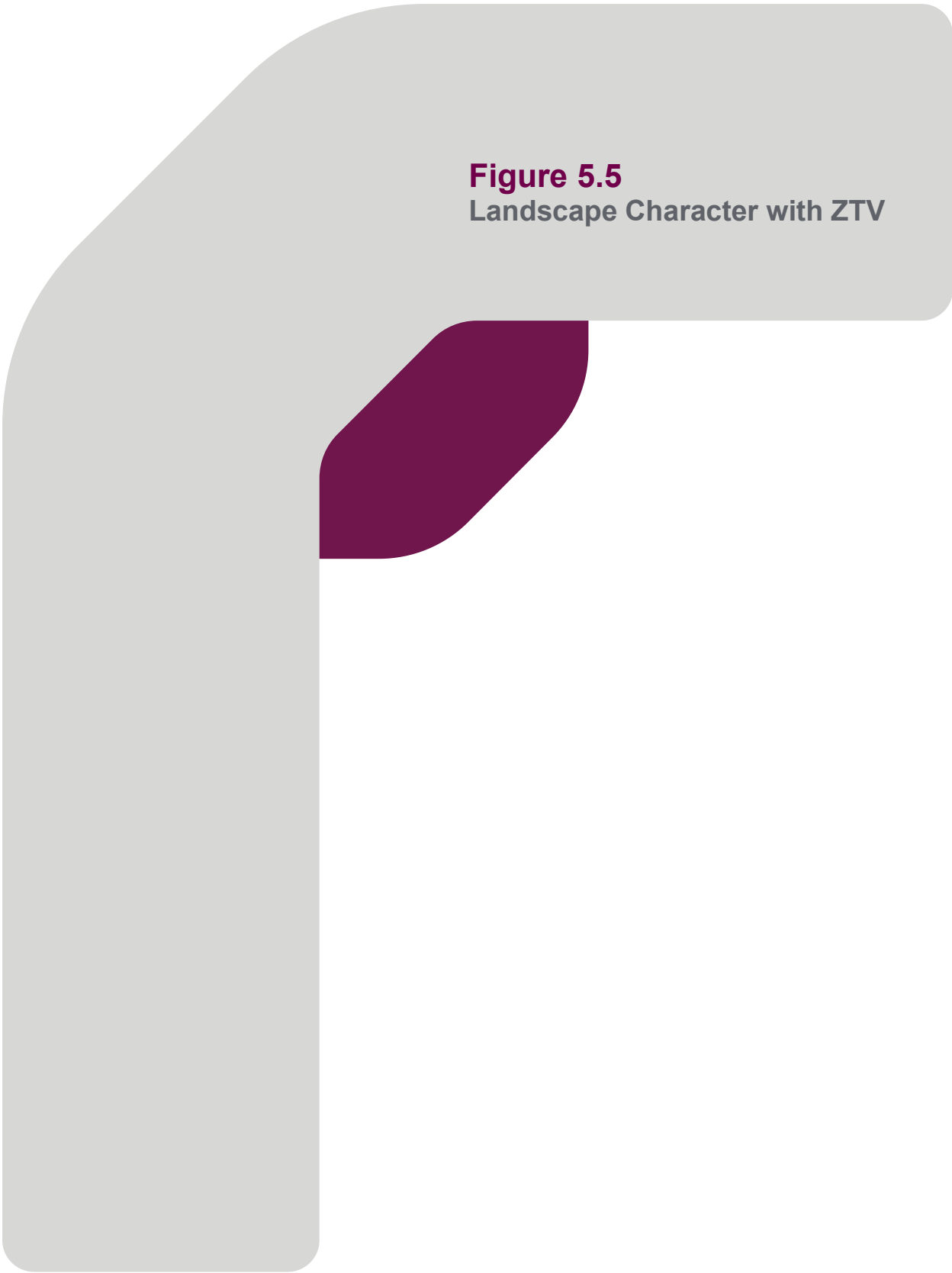
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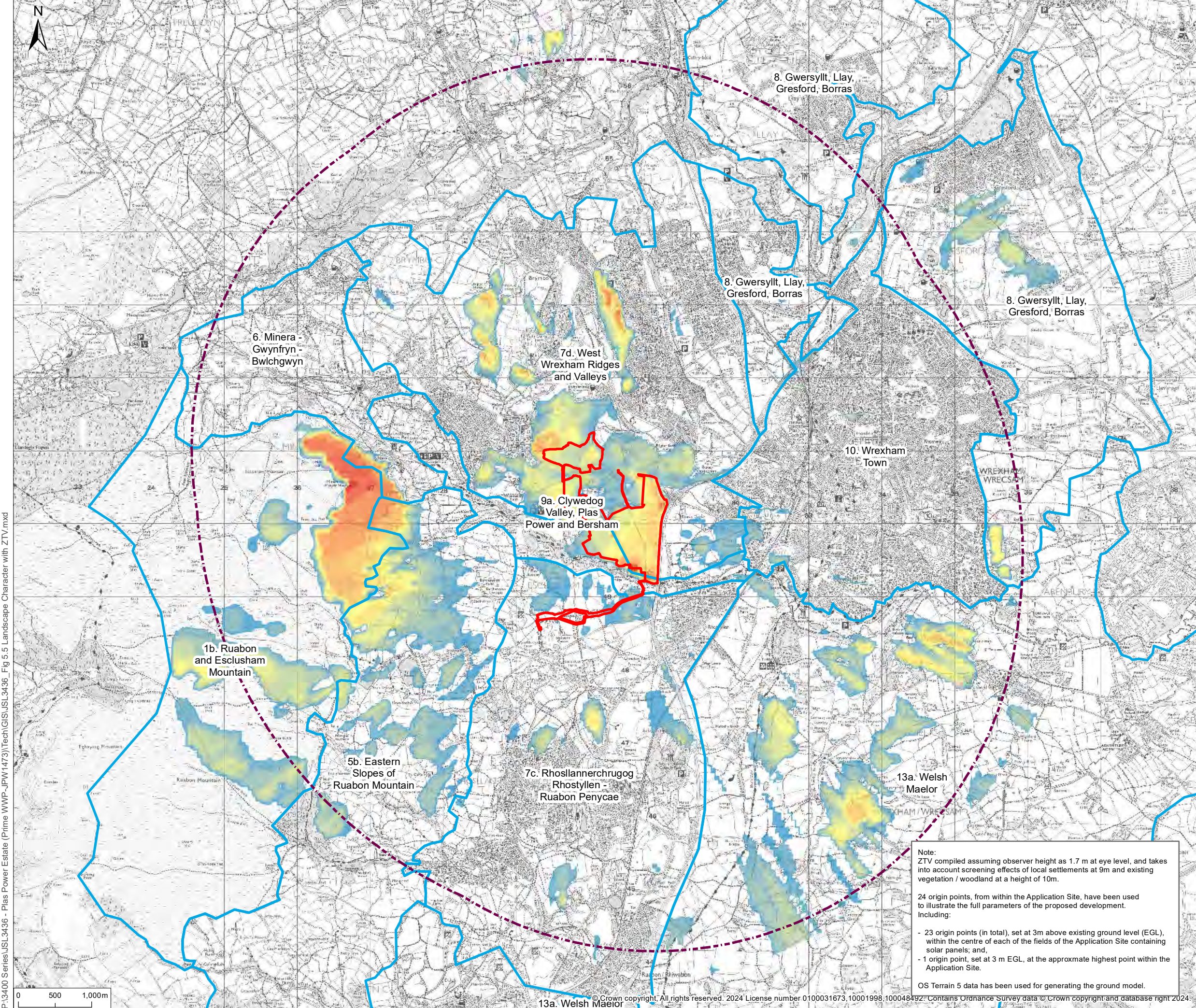
Figure Number 5.4 Rev A

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P:\13400 Series\JSL3436 - Plas Power Estate (Prime WWP-JPW1473)\Tech\GIS\JSL3436_Fig 5.4 Landscape Character.mxd

Figure 5.5
Landscape Character with ZTV





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Legend

- Application Site Boundary_2024_02_04
- - - Study Area (5km Radius)
- Wrexham LANDMAP Character Areas
- Low Visibility (up to 1 origin point)
-
-
-
-
-
-
-
-
-
-
-
- High Visibility (up to 17 origin points)

A	New redline area	SH	CL	02/24
Rev	Description	By	CB	Date

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Client: Lightsource BP
 Project: Plas Power Estate, Ruthin Road
 Title: Landscape Character Areas with ZTV

Status Information: Drawn By KH, PM/Checked By CL
 Project Number: JSL3436, Scale @ A3 1:50,000, Date Created FEB 2024
 Figure Number: 5.5, Rev A

Note:
 ZTV compiled assuming observer height as 1.7 m at eye level, and takes into account screening effects of local settlements at 9m and existing vegetation / woodland at a height of 10m.
 24 origin points, from within the Application Site, have been used to illustrate the full parameters of the proposed development. Including:
 - 23 origin points (in total), set at 3m above existing ground level (EGL), within the centre of each of the fields of the Application Site containing solar panels; and,
 - 1 origin point, set at 3 m EGL, at the approximate highest point within the Application Site.
 OS Terrain 5 data has been used for generating the ground model.

P:\3400 Series\JSL3436 - Plas Power Estate (Prime WWP-JPW1473)\Tech\GIS\JSL3436 - Fig 5.5 Landscape Character with ZTV.mxd

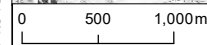
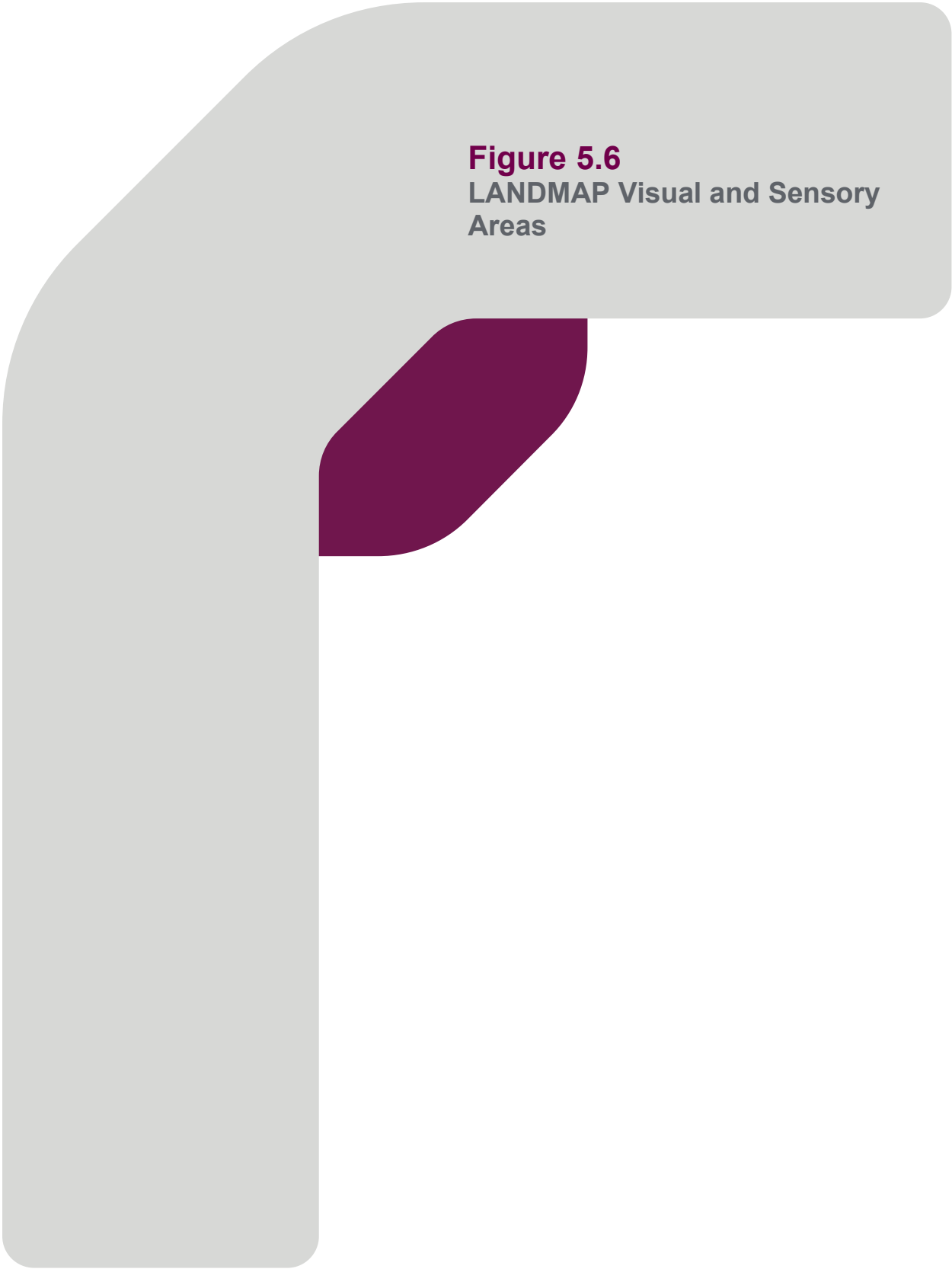
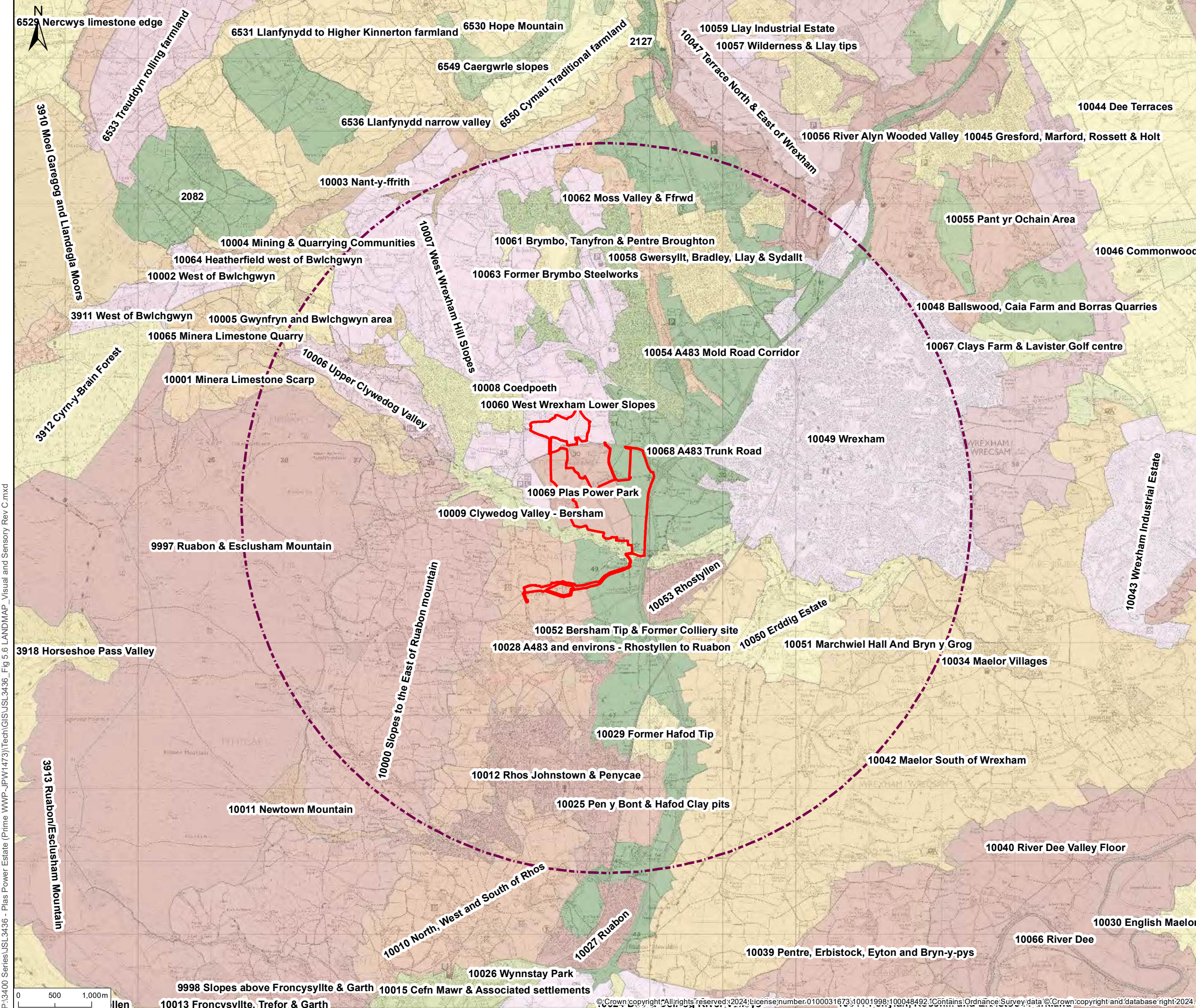


Figure 5.6
LANDMAP Visual and Sensory
Areas





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Legend
 — Application Site Boundary
 - - - Study Area (5km Radius)

Rev	Description	By	CB	Date
C	New redline area	SH	CL	02/24

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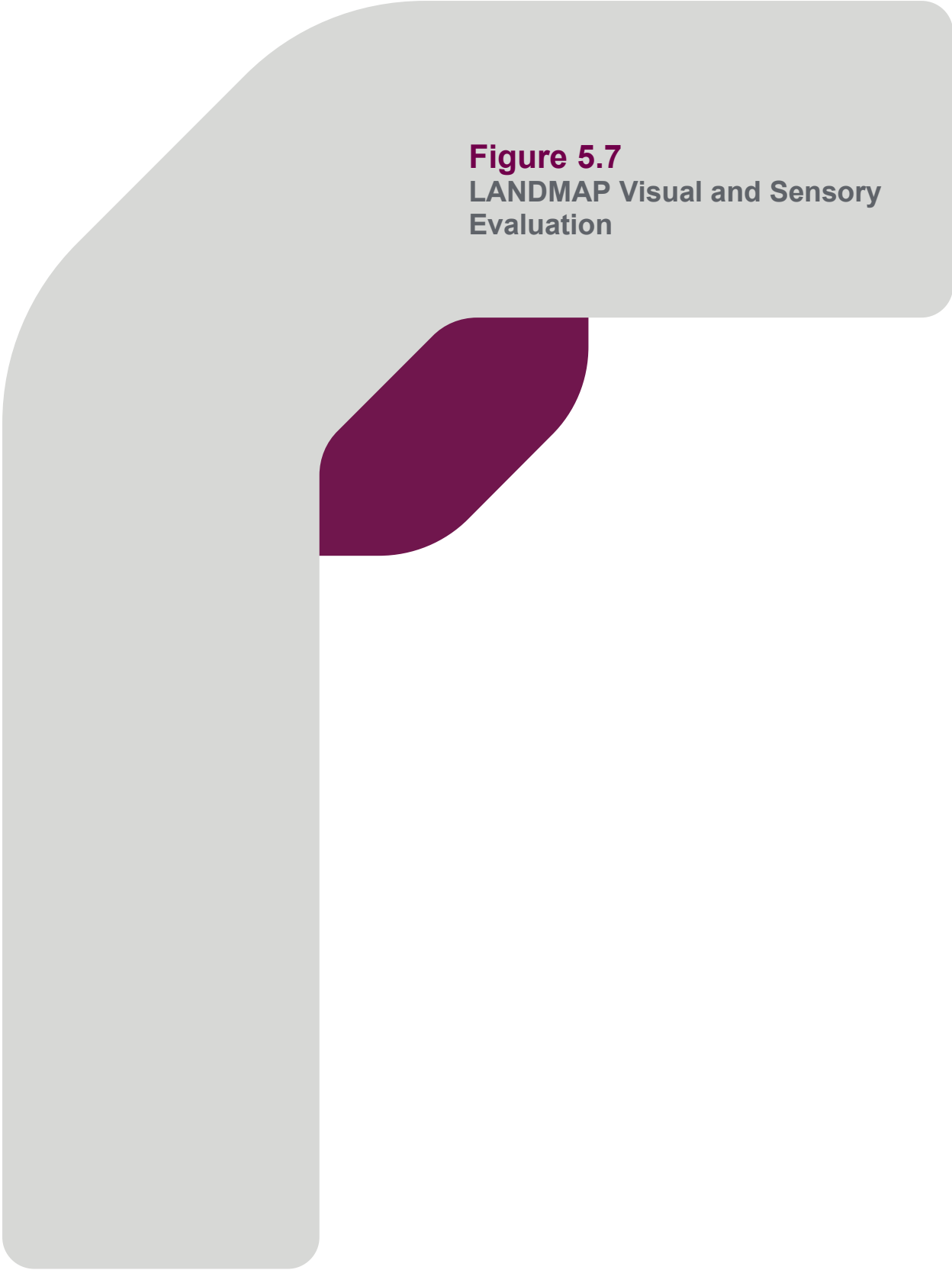
Client: Lightsource BO
 Project: Plas Power Estate, Ruthin Road
 Title: LANDMAP Visual & Sensory Areas

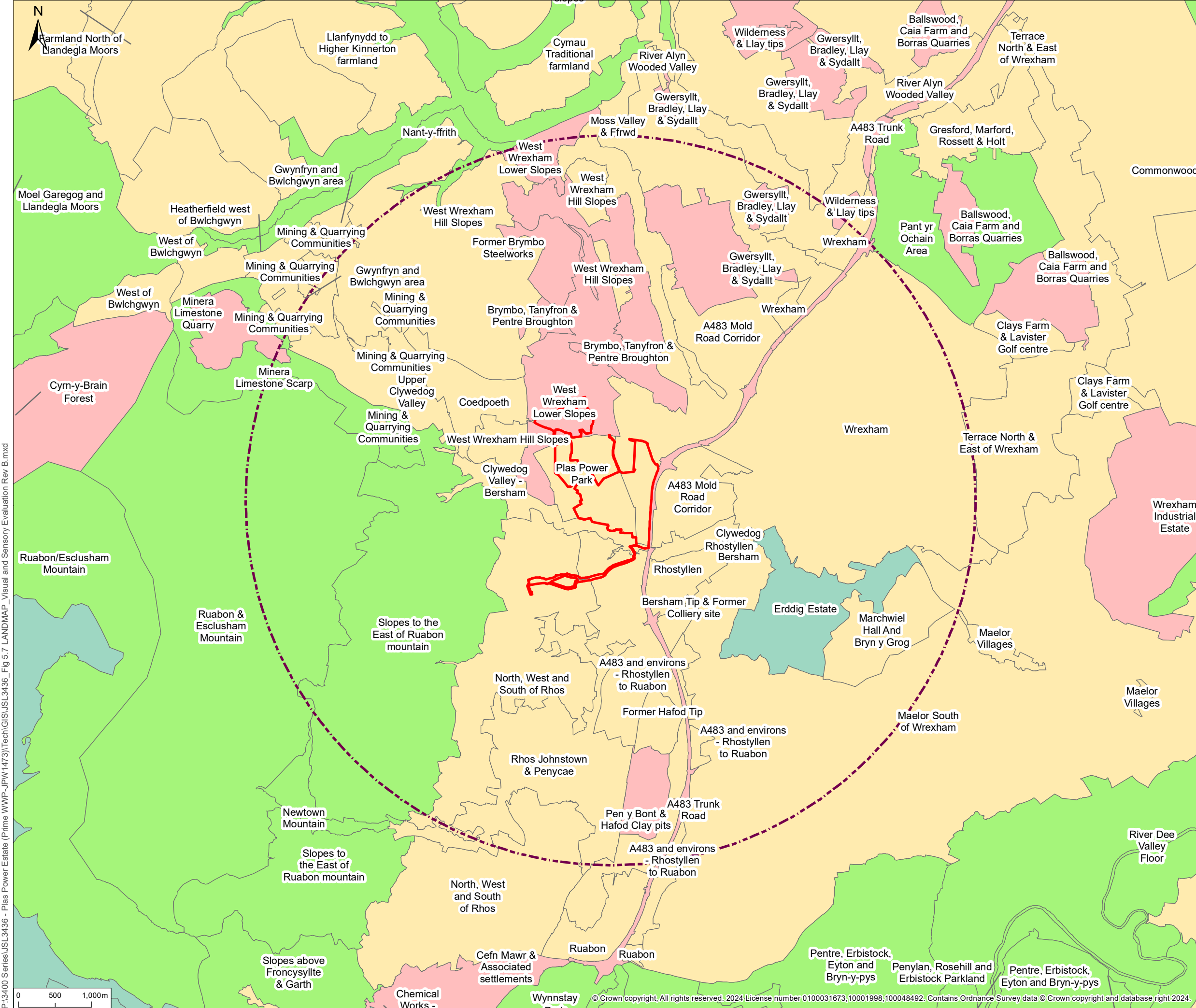
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 Project Number: JSL3436 Scale @ A3: 1:50,000 Date Created: FEB 2024
 Figure Number: 5.6 Rev: C

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P:\3400 Series\JSL3436 - Plas Power Estate (Prime WWP-JPW1473)\Tech\GIS\USL3436_Fig 5.6 LANDMAP_Visual and Sensory Rev C.mxd

Figure 5.7
LANDMAP Visual and Sensory
Evaluation





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Legend

- Application Site Boundary
- Study Area (5km)

Overall Evaluation

- Outstanding
- High
- Moderate
- Low

P:\13400 Series\JSL3436 - Plas Power Estate (Prime WWP-JPW1473)\Tech\GIS\JSL3436_Fig 5.7 LANDMAP_Visual and Sensory Evaluation Rev B.mxd

B	New redline area	SH	CL	02/24
Rev	Description	By	CB	Date

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Client: Lightsource BP

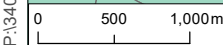
Project: Plas Power Estate, Ruthin Road

Title: LANDMAP Visual and Sensory Evaluation

Status Information: Drawn By: JM, PM/Checked By: CL

Project Number: JSL3436, Scale @ A3: 1:50,000, Date Created: FEB 2024

Figure Number: 5.7, Rev: B




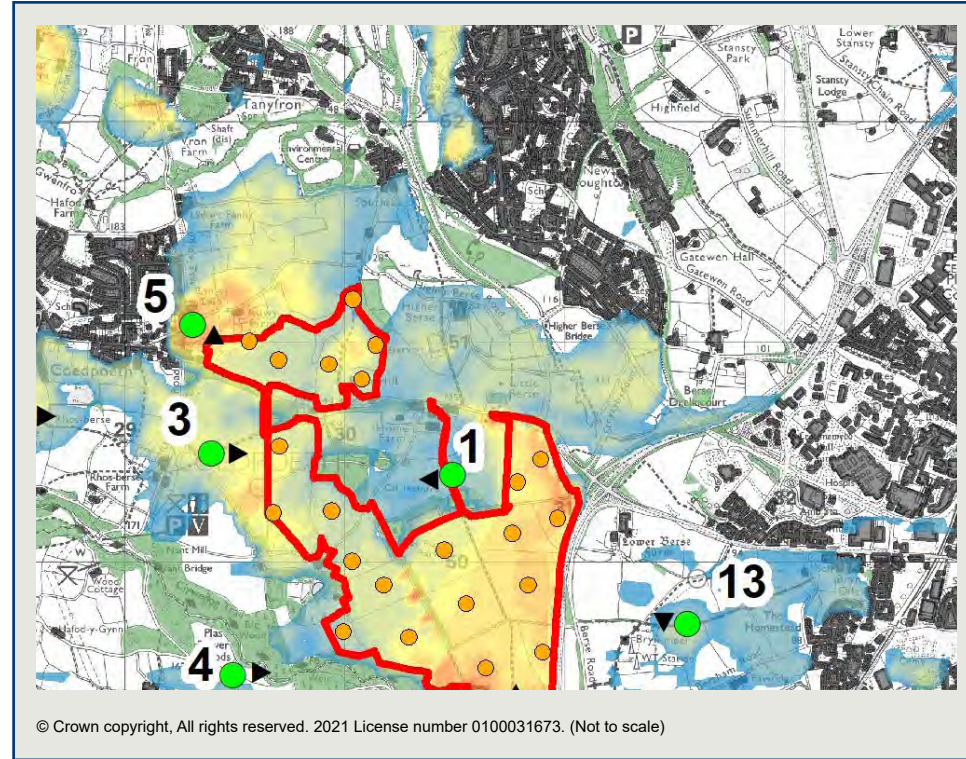
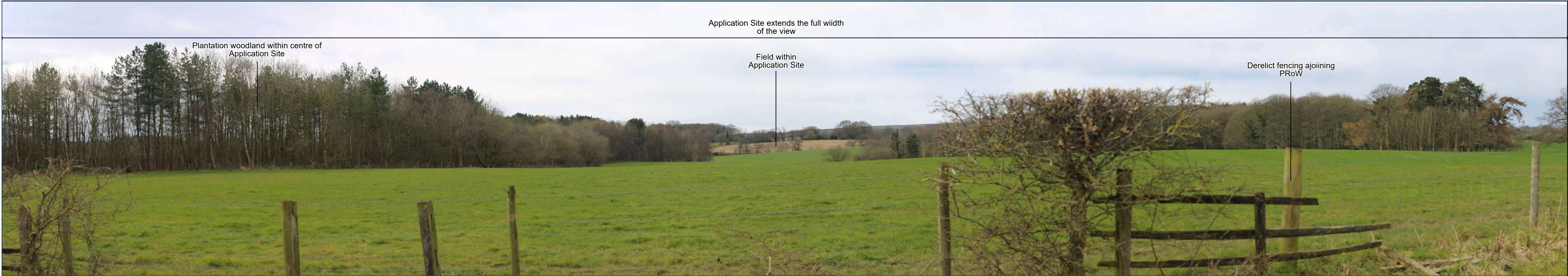
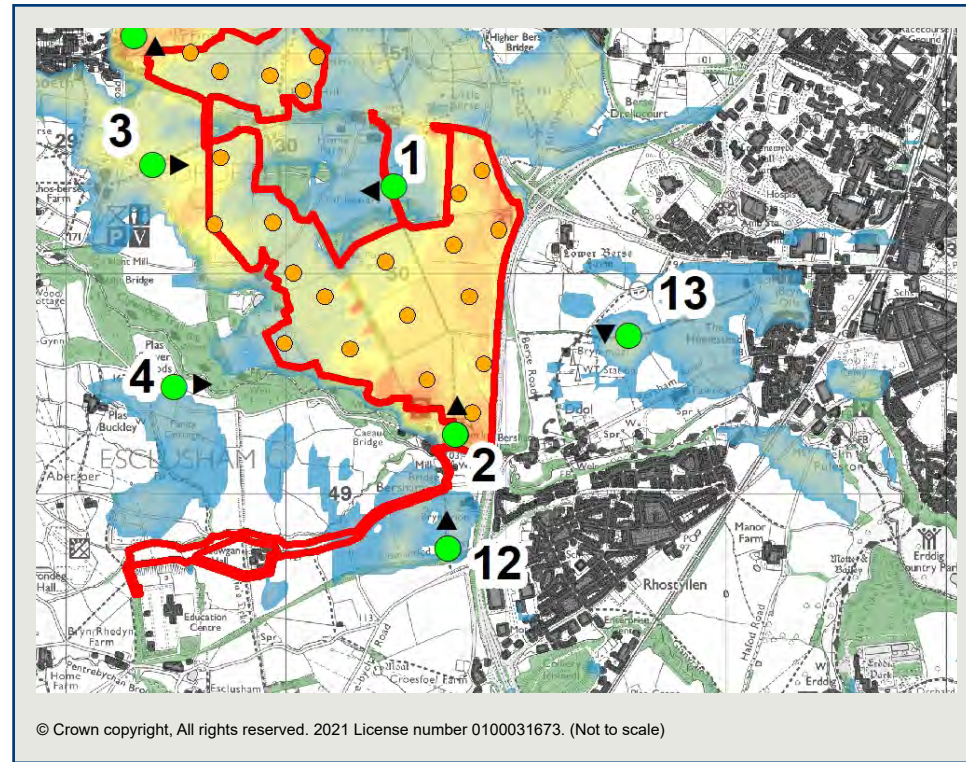
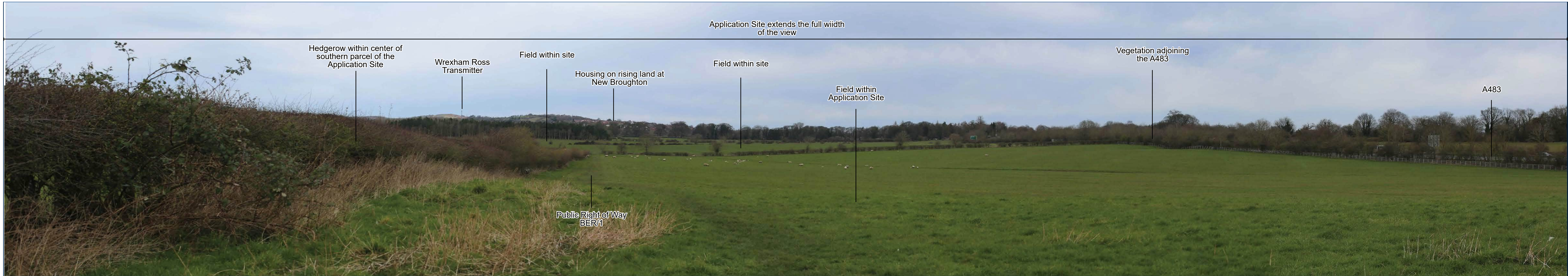


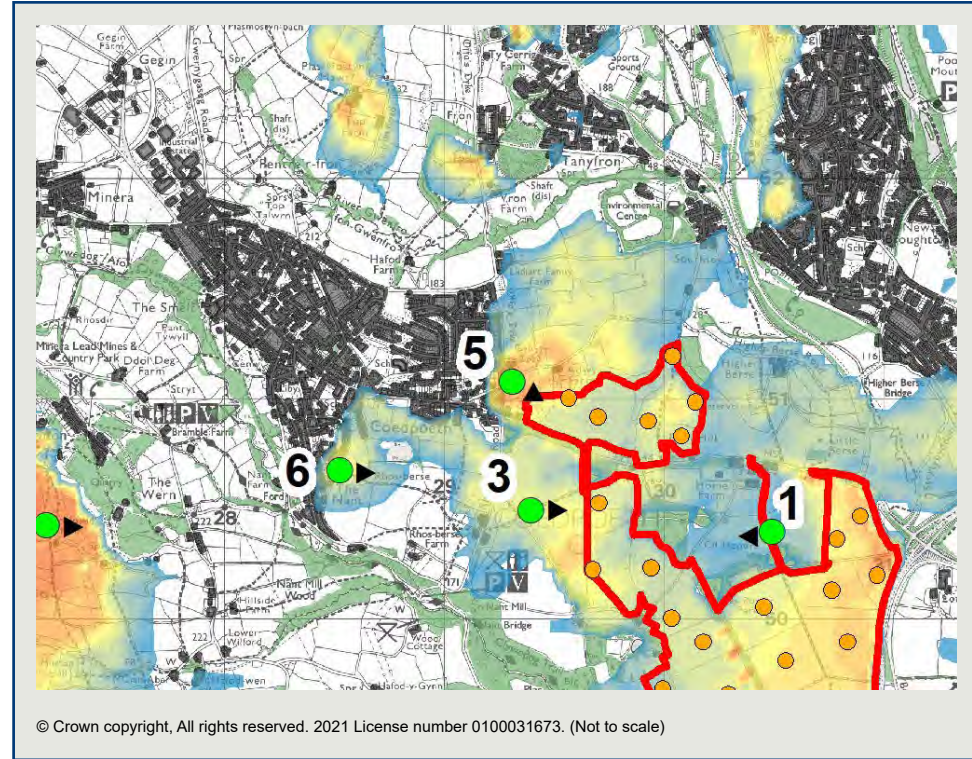
Figure 5.8
Representative Viewpoint
Photographs





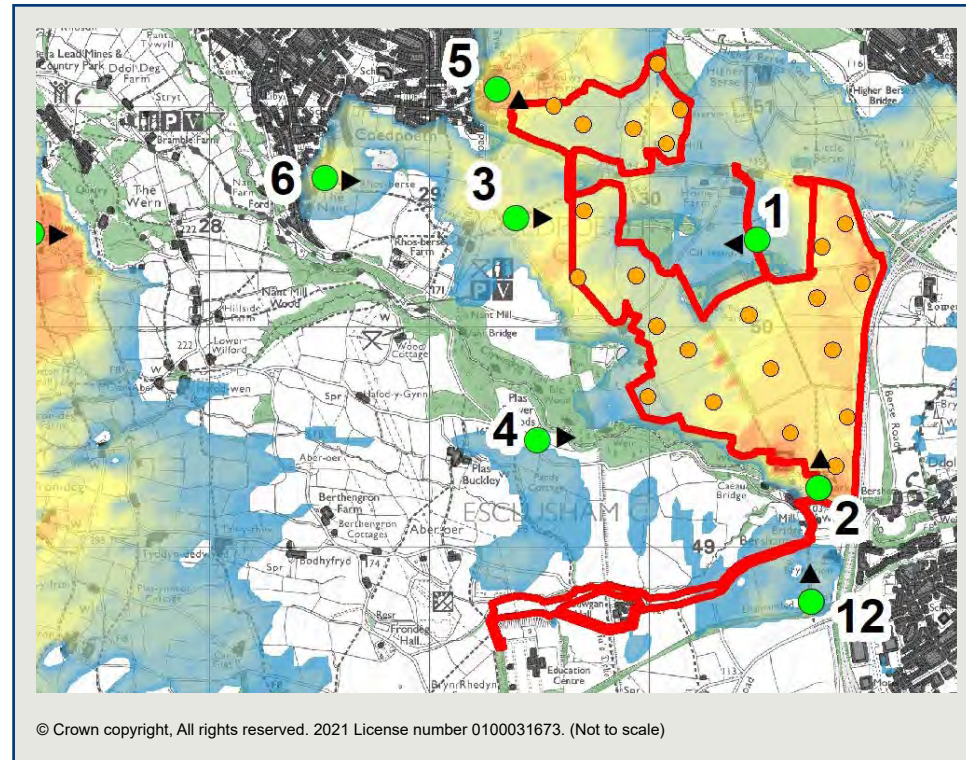




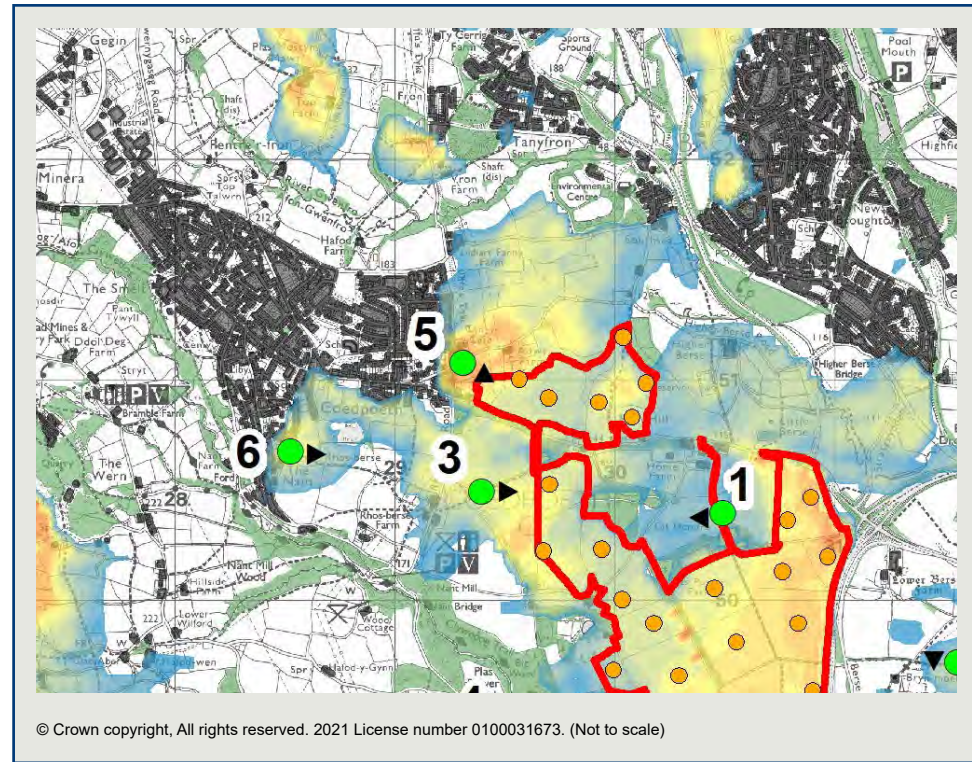




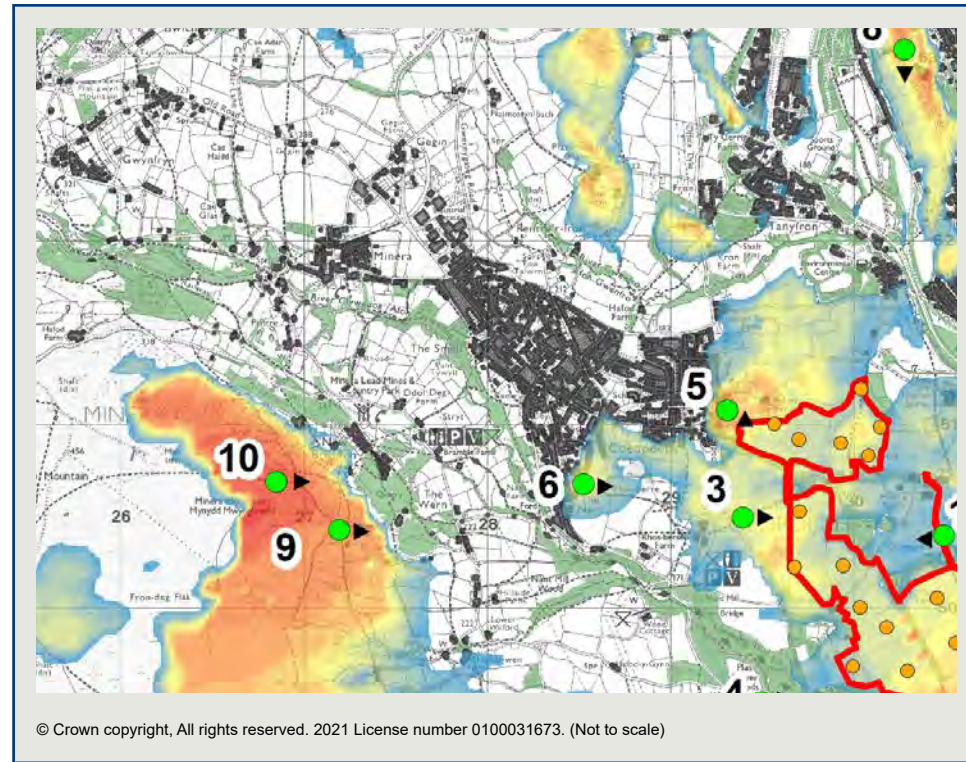
Approximate extent of Application Site within view



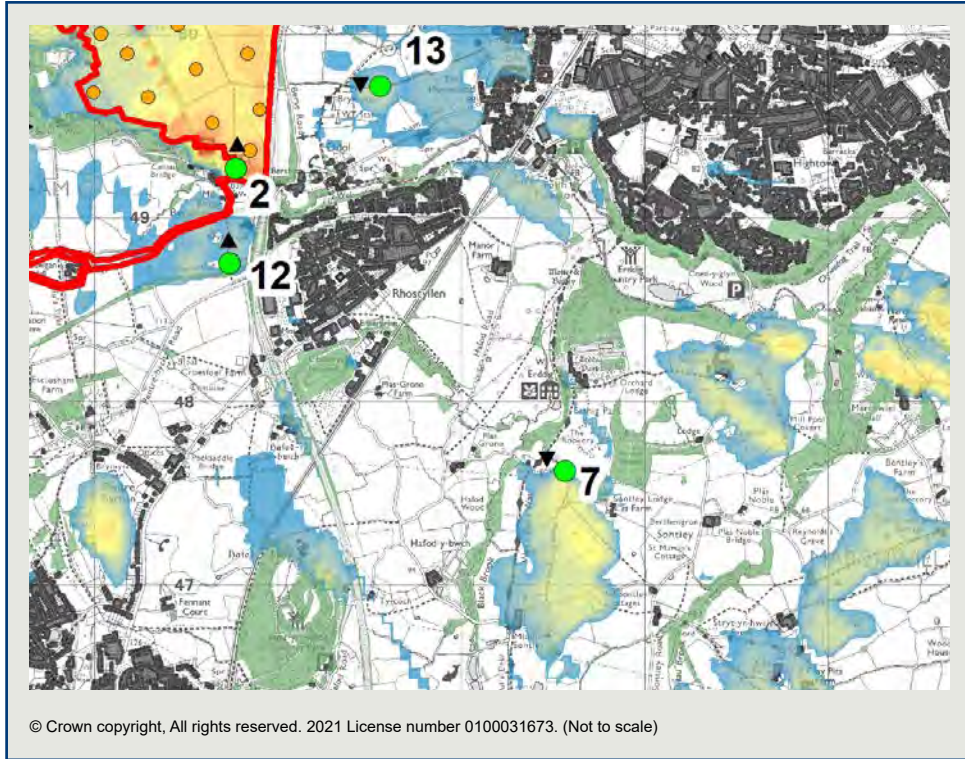




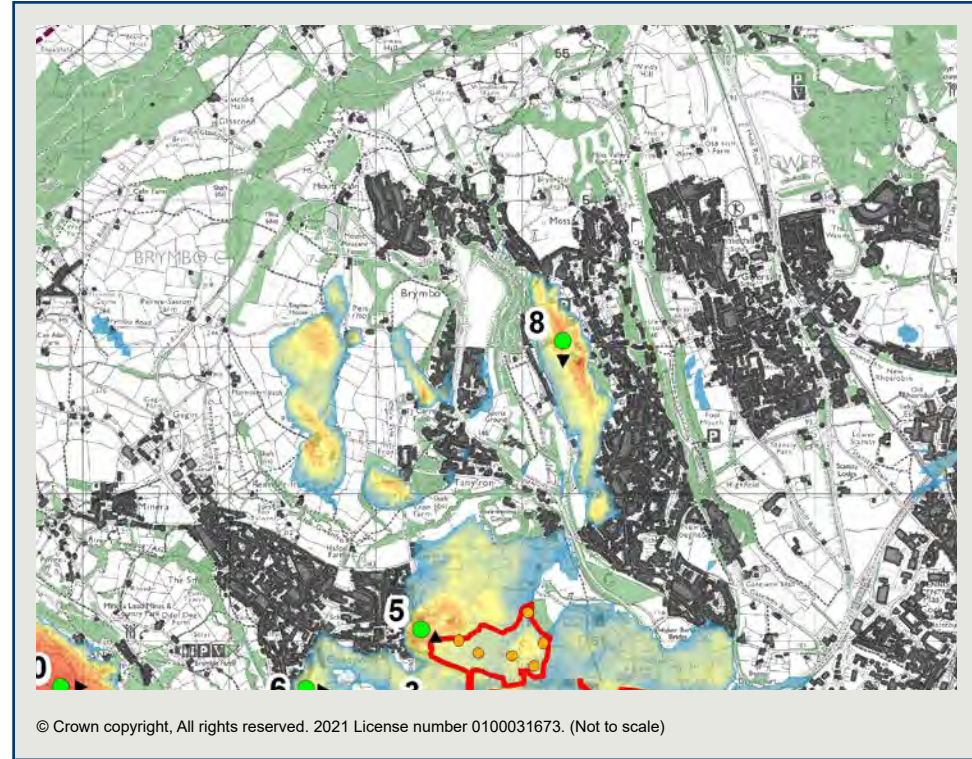
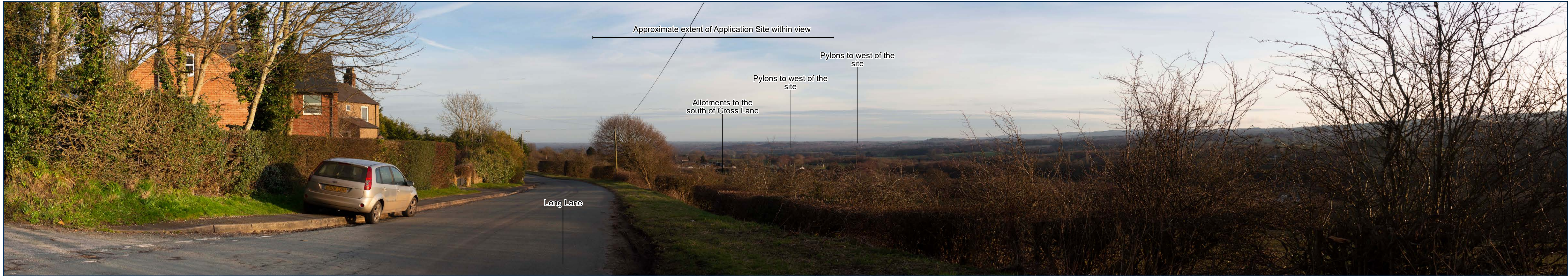




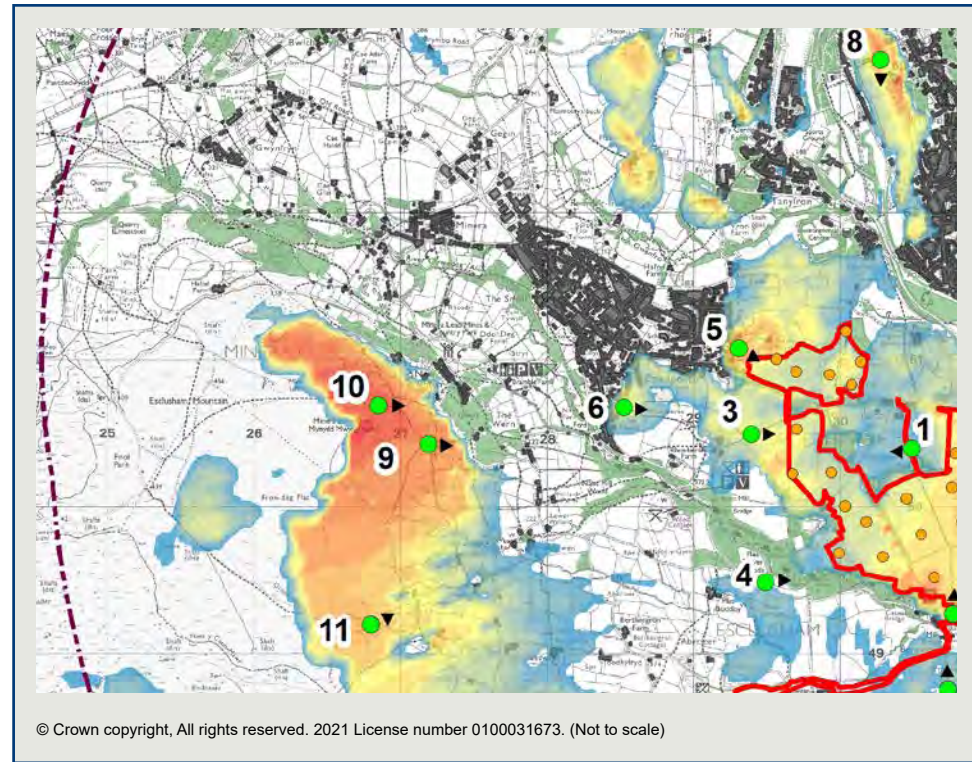
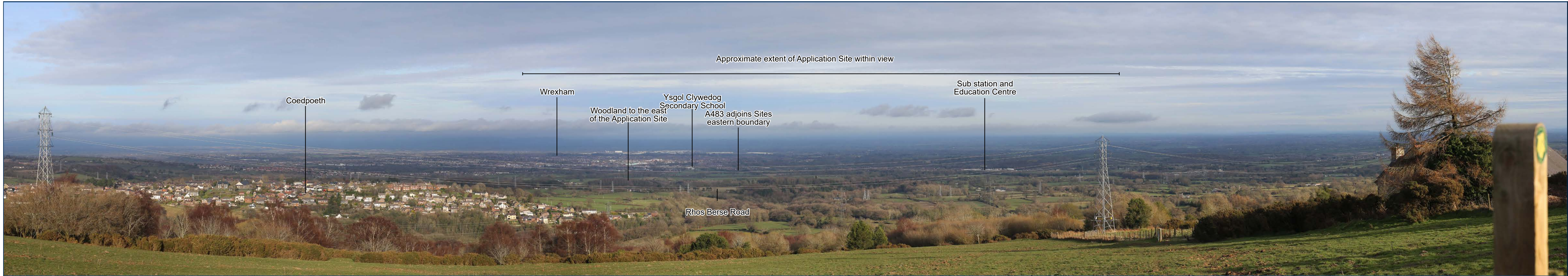




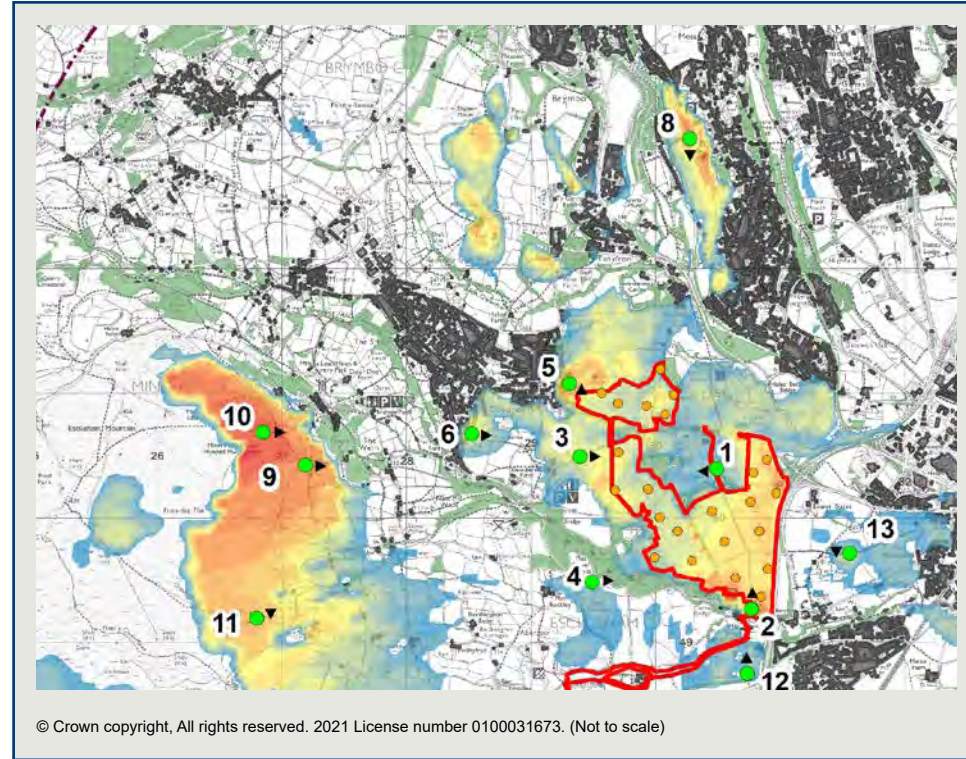
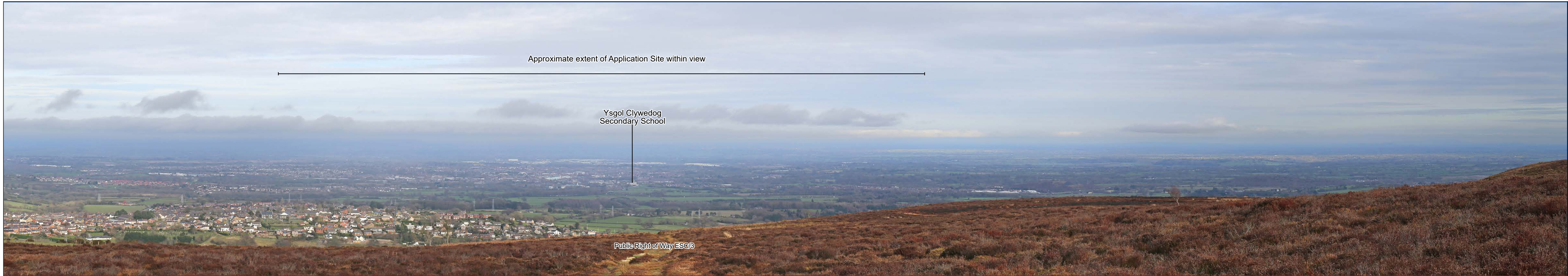




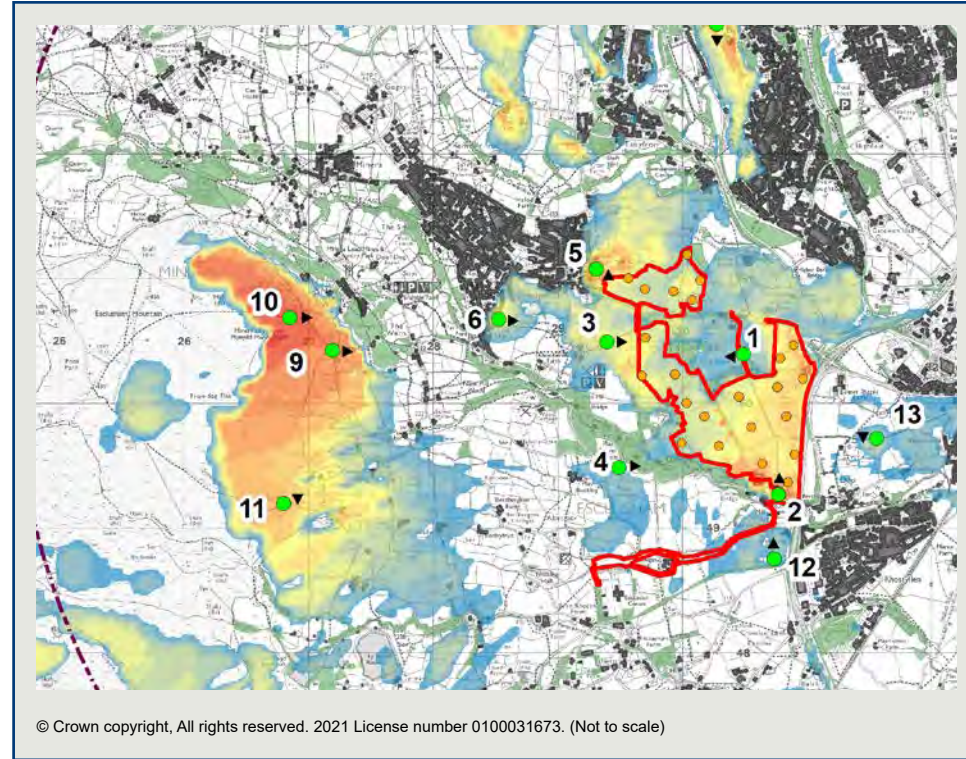
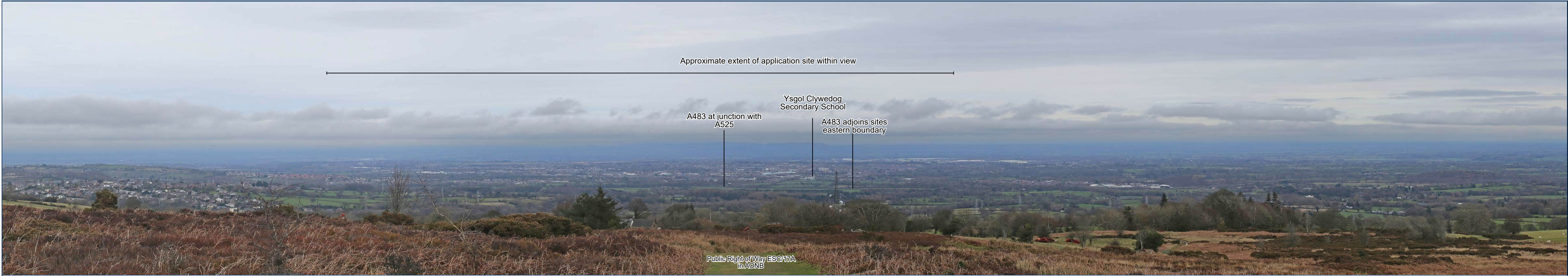














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COMPLEXITY
EASILY Representative Viewpoint 11: PRoW ESC/17A / Common Land within AONB - Long distance view from public footpath within registered Common Land and the Bryniau Clwyd a Dyffryn Dyfrdwy/
Clwydian Range and Dee Valley AONB to the west of the Application Site.

Pias Power Estate
JSL3436

Date of photograph: 18/03/2021

Figure: 5.8Kii

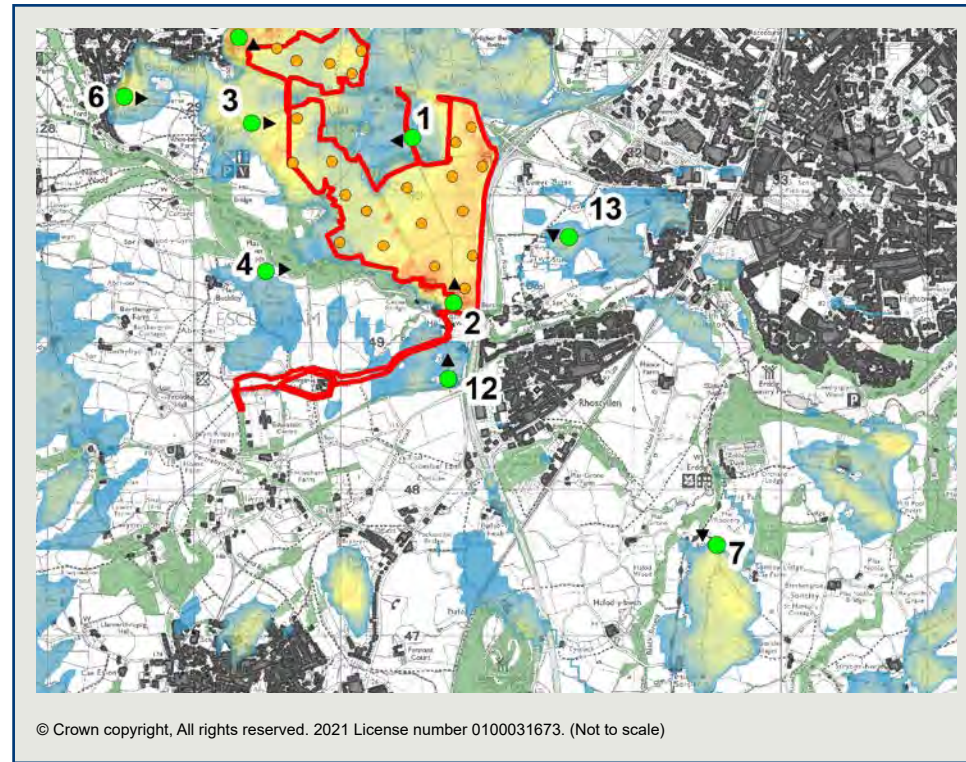
Application Site occupies the full width of the view



Hedgerow located to the south of local lane (unnamed)

Vegetation Screens much of the Application Site

Public Right of Way ESC/1



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Application Site occupies the full width of the view

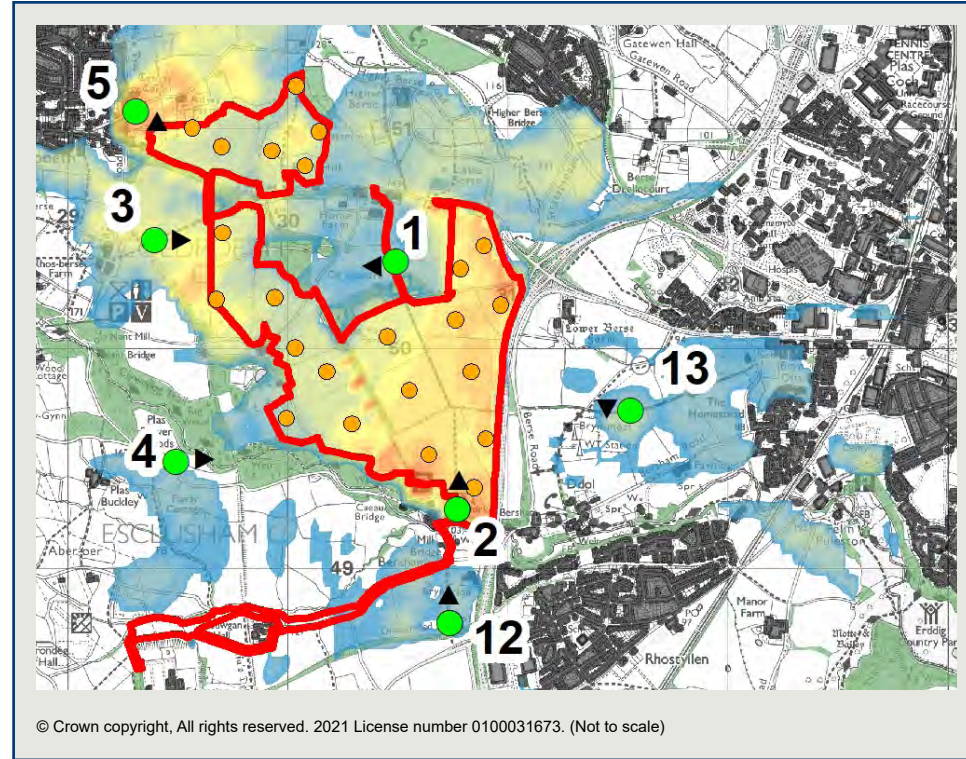
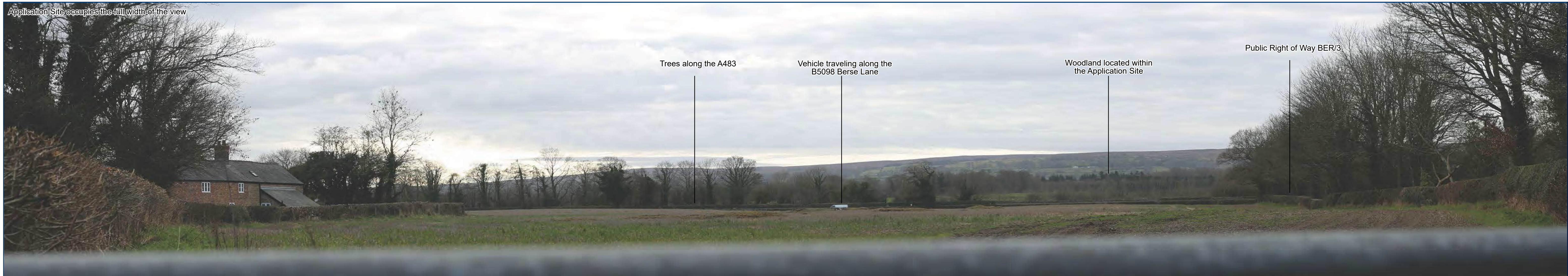
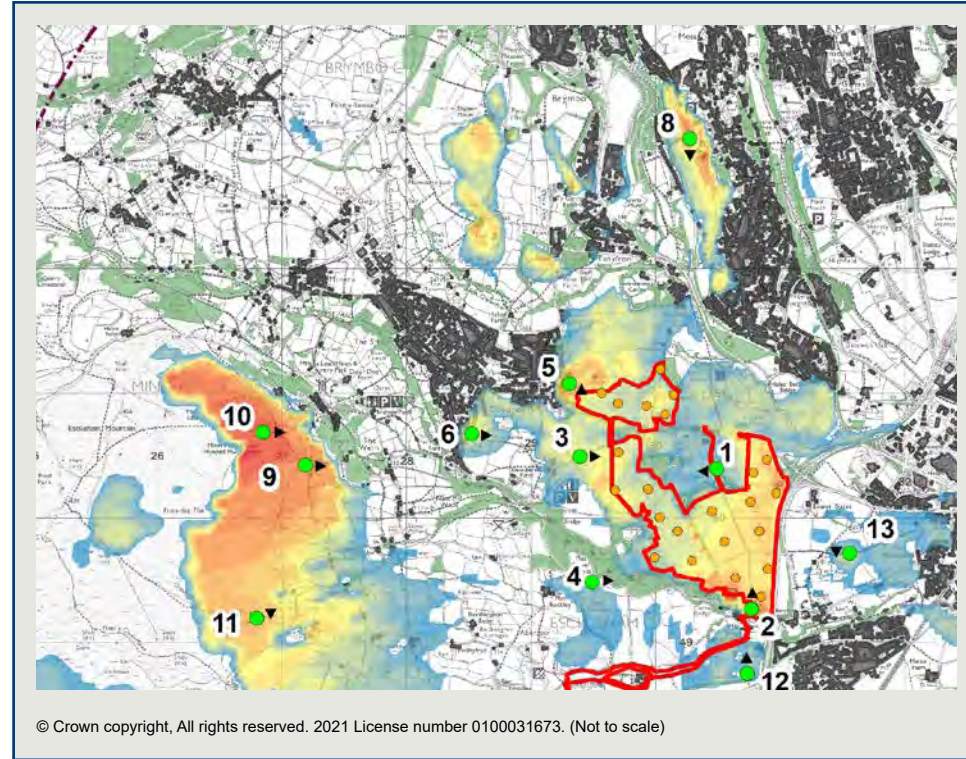
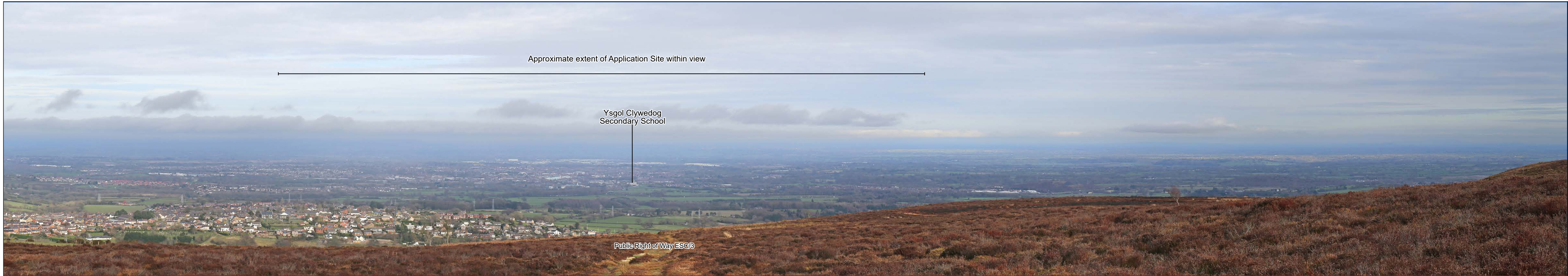




Figure 5.9
Photomontages







Representative Viewpoint 10: PRow ESC/31 / Common Land within AONB - Long distance view from public footpath within registered Common Land and the Bryniau Clwyd a Dyffryn Dyfrdwy/
Clwydian Range and Dee Valley AONB to the west of the Application Site.

Baseline View

Plas Power Estate
JSL3436

Date of photograph: 18/03/2021

Horizontal field of view: Circa 90 Degrees
To be viewed at comfortable arms length

Figure: 5.9B



Representative Viewpoint 10: PRoW ESC/31 / Common Land within AONB - Long distance view from public footpath within registered Common Land and the Bryniau Clwyd a Dyffryn Dyfrdwy/ Clwydian Range and Dee Valley AONB to the west of the Application Site.

Year 1 Winter Illustrative Photomontage

Pias Power Estate
JSL3436

Date of photograph: 18/03/2021

Horizontal field of view: Circa 90 Degrees
To be viewed at comfortable arms length

Figure: 5.9C



Representative Viewpoint 10: PRoW ESC/31 / Common Land within AONB - Long distance view from public footpath within registered Common Land and the Bryniau Clwyd a Dyffryn Dyfrdwy/ Clwydian Range and Dee Valley AONB to the west of the Application Site.

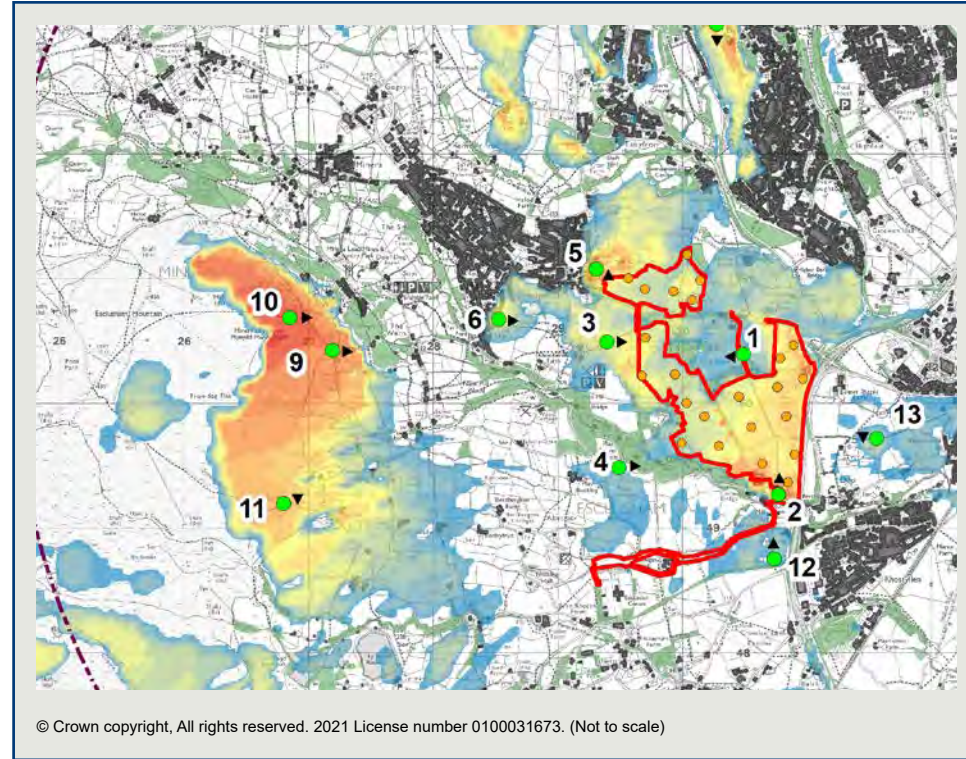
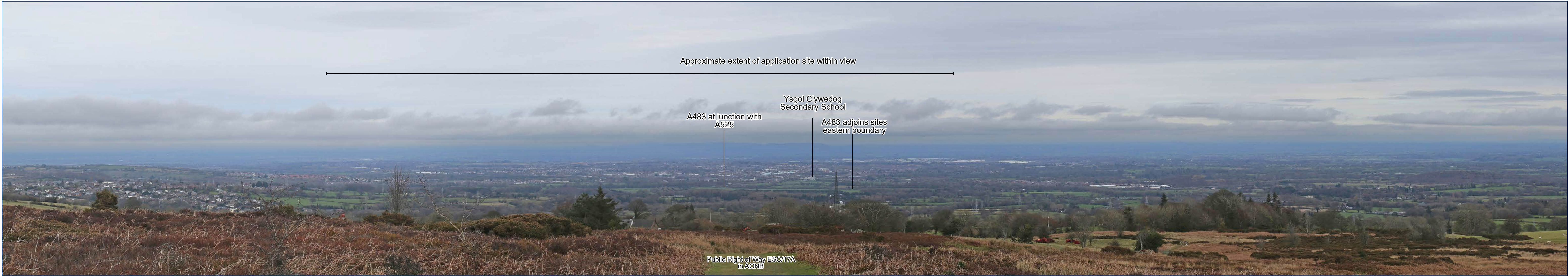
Year 15 Summer Illustrative Photomontage

Pias Power Estate
JSL3436

Date of photograph: 18/03/2021

Horizontal field of view: Circa 90 Degrees
To be viewed at comfortable arms length

Figure: 5.9D





Representative Viewpoint 11: PRow ESC/17A / Common Land within AONB - Long distance view from public footpath within registered Common Land and the Bryniau Clwyd a Dyffryn Dyfrdwy/
Clwydian Range and Dee Valley AONB to the west of the Application Site.

Baseline View

Plas Power Estate
JSL3436

Date of photograph: 18/03/2021

Horizontal field of view: Circa 90 Degrees
To be viewed at comfortable arms length

Figure: 5.9F



Representative Viewpoint 11: PRow ESC/17A / Common Land within AONB - Long distance view from public footpath within registered Common Land and the Bryniau Clwyd a Dyffryn Dyfrdwy/
Clwydian Range and Dee Valley AONB to the west of the Application Site.

Year 1 Winter Illustrative Photomontage

Plas Power Estate
JSL3436

Date of photograph: 18/03/2021

Horizontal field of view: Circa 90 Degrees
To be viewed at comfortable arms length

Figure: 5.9G





Figure 5.10
Illustrative Landscape and Ecology Masterplan

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 3. Where applicable Ordnance Survey (c) Crown Copyright 2021. All rights reserved. Licence number 0100031673

Key

Proposed elements

- APPLICATION SITE BOUNDARY
- SITE ACCESS
- MODULE PANELS (See Layout for further details)
- SECURITY FENCE TBC
- PROPOSED ACCESS TRACK
- STRUCTURES (See Layout for further details)
- FIELD REFERENCE For LVIA and GAG

SOFT LANDSCAPE

Proposed elements

- DECIDUOUS TREE Varied native species and stock sizes
- CONIFEROUS TREE Varied native species
- SPECIMEN SHRUB In shrub border or gravel area
- NATIVE HEDGEROW (WITH SPACED STANDARD TREES) Complementing existing hedge lines and providing new field boundaries
- NATIVE CLIPPED HEDGEROW Complementing existing hedge lines and providing new field boundaries
- STRUCTURAL WOODLAND AND SHRUB Varied structure native woodland planting
- WOODLAND EDGE SHRUB Varied structure native shrub planting
- GRAZING GRASSLAND
- FIELD MARGIN MEADOW
- TUSSOCKY GRASSLAND
- WOODLAND MEADOW
- WILDFLOWER MEADOW
- WETLAND MEADOW
- MOWN AMENITY GRASS
- SPRING FLOWERING BULB PLANTING

HARD LANDSCAPE

Proposed elements

- INTERPRETATION BOARD Varied information, refer to notes for details
- FOOTPATH Compacted gravel

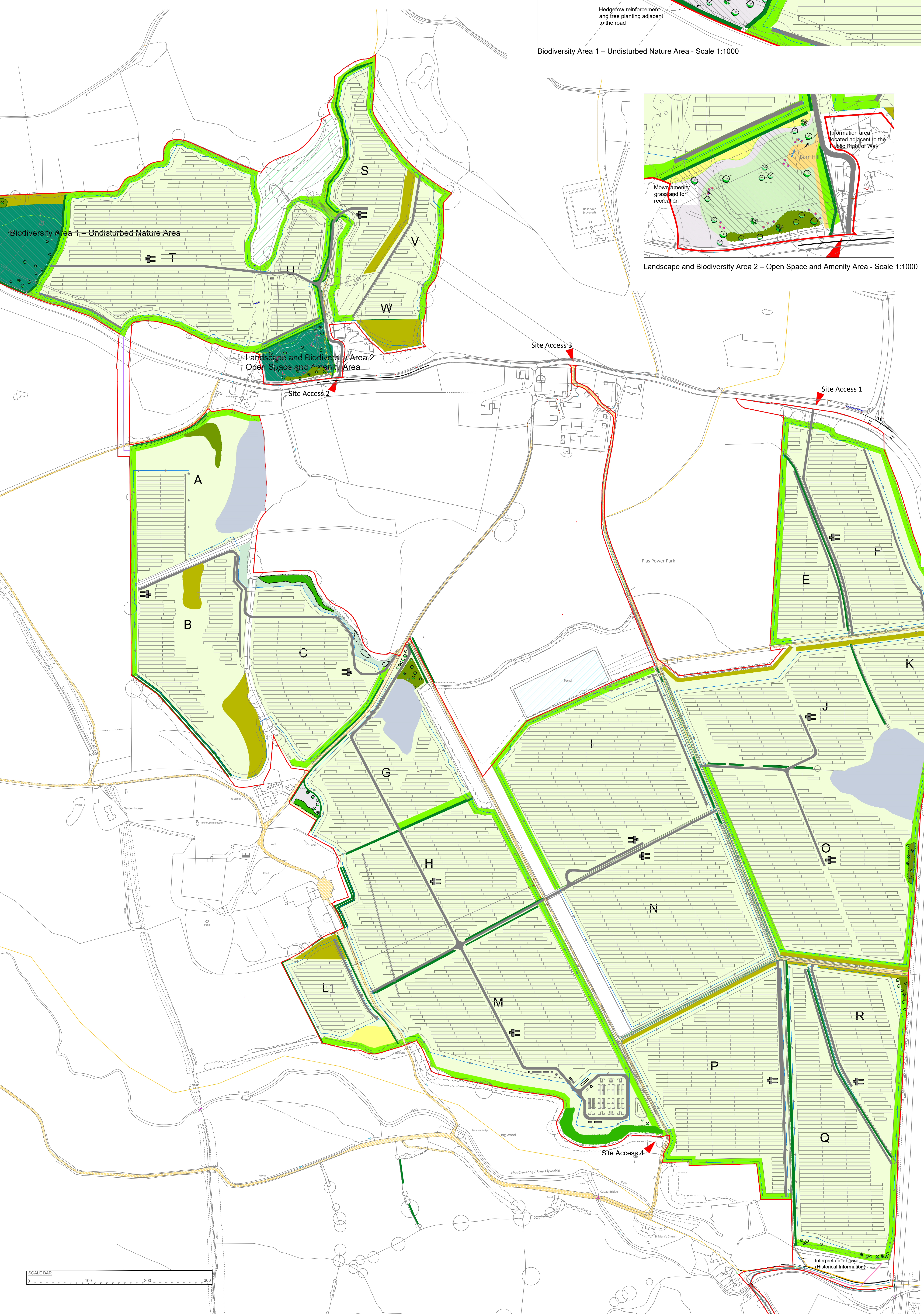
BIODIVERSITY ENHANCEMENTS

- WILD BIRD SEED CROP 5m wide on southern side of hedgerows
- ECOLOGICAL ENHANCEMENTS As per ecological reports
- ECOLOGICAL ENHANCEMENT AREA See inserts for details

Existing features

- TREES To be retained and protected. New tree planting would complement existing species and provide engaging variation and structure.
- WOODLAND To be retained, protected and managed appropriately for longevity
- HEDGEROW / SCRUB To be retained, protected and gapped up where appropriate and managed on rotational basis to a height of 2.5-3m
- PUBLIC RIGHTS OF WAY Maintained and opportunities to further connect (As traced from OS Explorer 1:25,000)
- ANCIENT WOODLAND CLASSIFICATION Ref to AIB reports for further detail
- WATERBODY To be retained, protected and enhanced as possible and recommended within ecological reports
- GRAVEL TRACK Existing gravel track to be retained

Note
 The illustrated landscape treatment would not alter if the proposed development included PVs instead of the BESS
 Field D has been removed from the development



D	REVISED LAYOUT	PL	GL	01.24
C	REVISED LAYOUT	CL	KH	11.23
B	OPEN SPACE AMENITY AREA	CL	KH	10.23
A	REVISED LAYOUT 2023	CL	KH	09.23
Rev	Description	By	CB	Date



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Client Lightsource bp

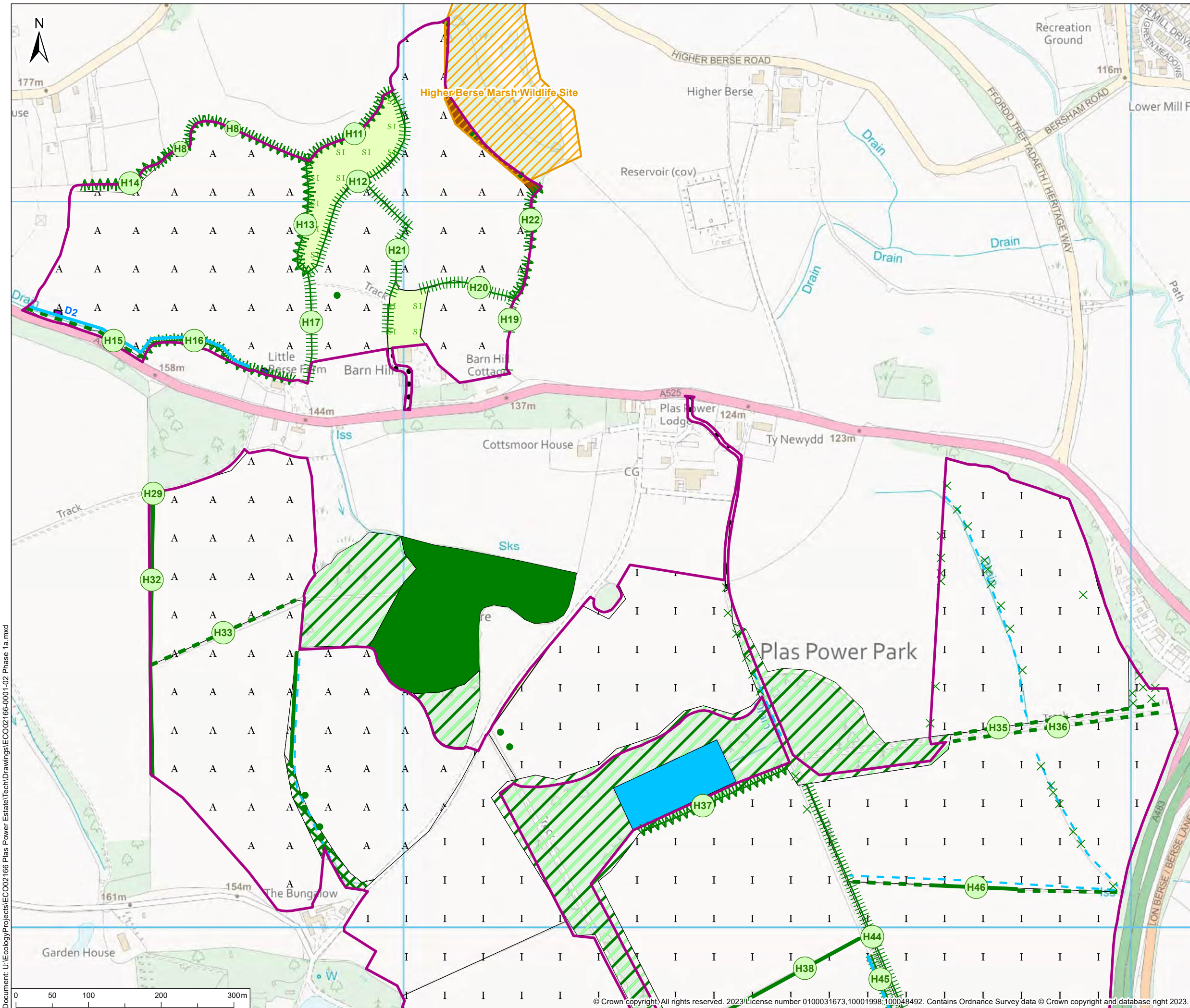
Project Plus Power Solar and Energy Storage Project
 Title Illustrative Landscape and Ecology Masterplan

Status Planning
 Drawn By KH
 PM/Checked by GL
 Job Ref JSL3436
 Scale @ A0
 Date Created Feb 2024

RPS Drawing / Figure Number Rev
 Figure 5.10 D
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Figure 6.1
Habitat Plan





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- Survey Boundary
- Wildlife sites
- A Arable
- Bare ground
- Bracken - continuous
- Broadleaved woodland - semi-natural
- I Improved grassland
- Mixed woodland - plantation
- Japanese Knotweed
- SI Poor semi-improved grassland
- Scrub - dense/continuous
- Standing water
- Defunct hedge - species-poor
- Dry ditch
- Hedge with trees - native species-rich
- Hedge with trees - species-poor
- Intact hedge - species-poor
- Standing water
- X Scattered scrub
- Scattered tree - broadleaved
- H1 Hedgerow number
- F1 Field number
- W1 Watercourse number
- D1 Ditch number



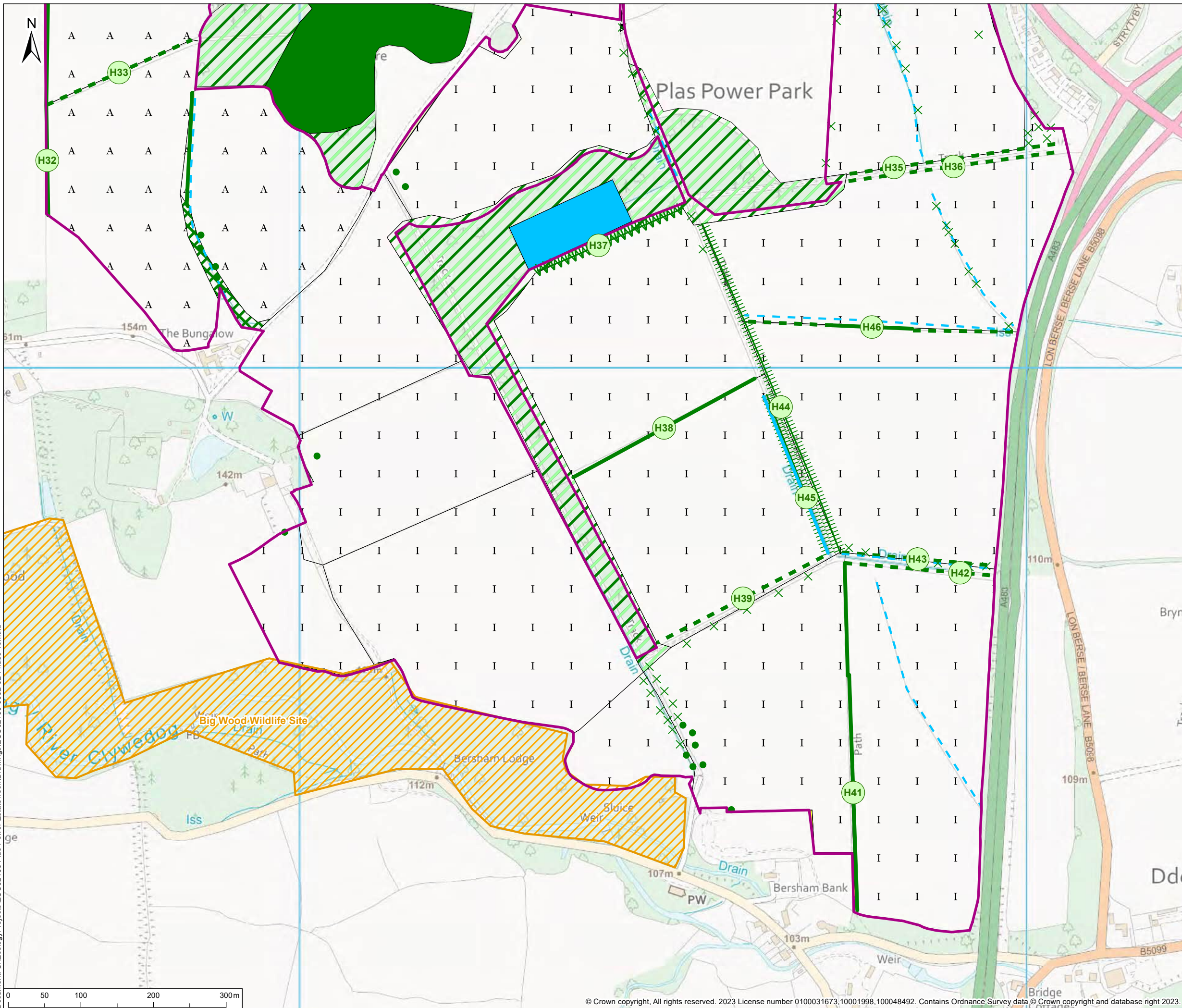
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Client Lightsource bp
 Project Plas Power Solar and Energy Storage Project
 Title Phase 1 habitat map

Status	Drawn By	PM/Checked By
Draft	MP	GK
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ECO02166	1:5,000	21/06/23
Figure Number		Rev
1a		04

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- Survey Boundary
- Wildlife sites
- Amently grassland
- Arable
- Bare ground
- Broadleaved woodland - semi-natural
- Improved grassland
- Mixed woodland - plantation
- Poor semi-improved grassland
- Scrub - dense/continuous
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- Hedge with trees - native species-rich
- Hedge with trees - species-poor
- Intact hedge - species-poor
- Standing water
- Scattered scrub
- Scattered tree - broadleaved
- Hedgerow number
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- Ditch number



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Client RPS Cardiff
 Project Plas Power Solar Park
 Title Phase 1 habitat map

Status	Drawn By	PM/Checked By
Draft	MP	GK
Project Number	Scale @ A3	Date Created
ECO02166	1:5,000	21/06/23
Figure Number		Rev
1b		04

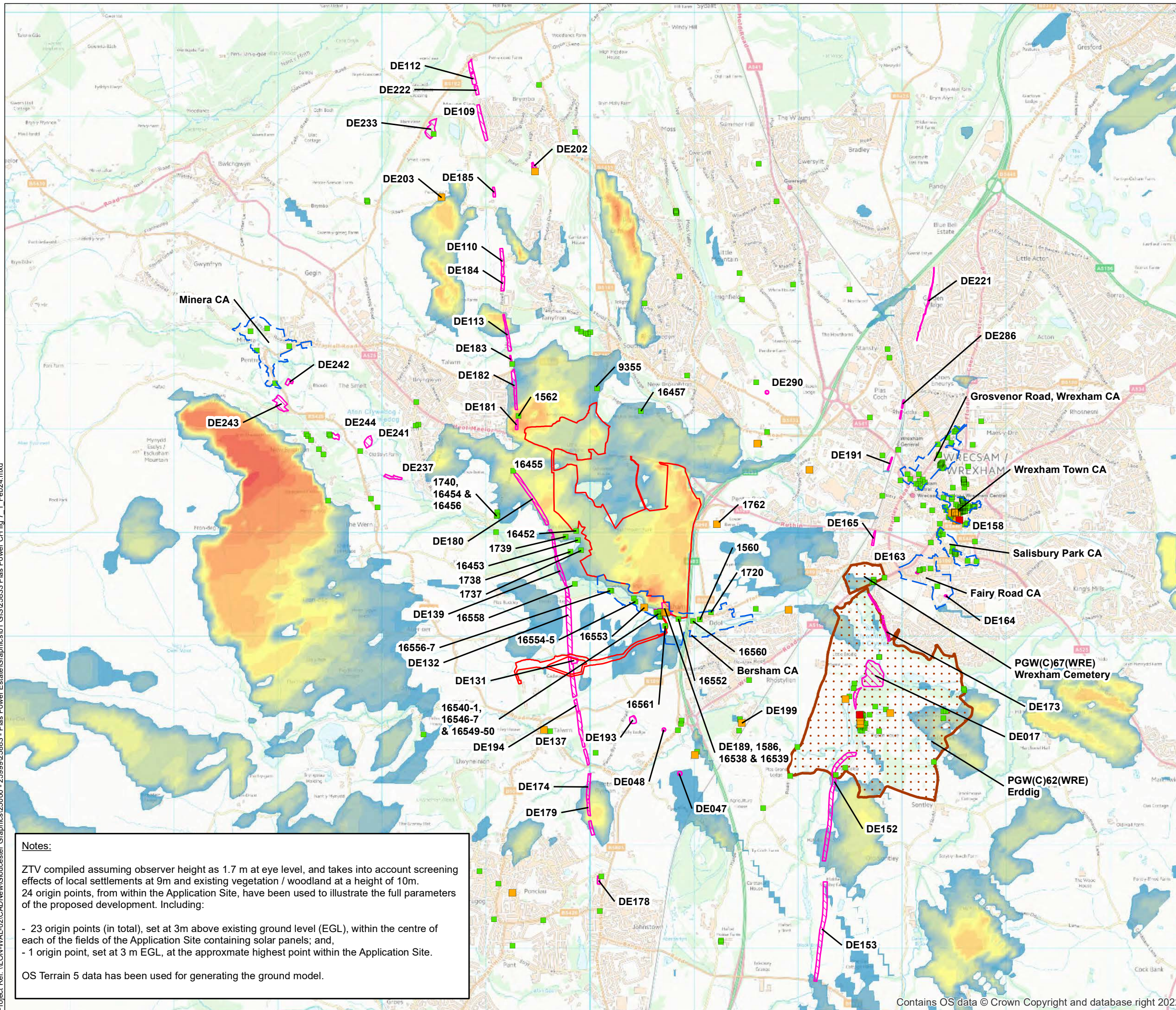
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Figure 7.1
Designated Heritage Assets and
Zone of Theoretical Visibility

Project Ref: \\LON\WAL-02\CAD\New\Gloucester Graphics\25000 - 25999\25883 - Plas Power Estate\Graphics\01 GIS\258833 Plas Power CH fig 7_1_Feb24.mxd

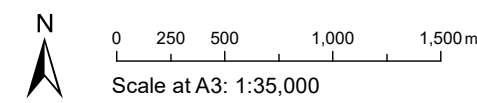
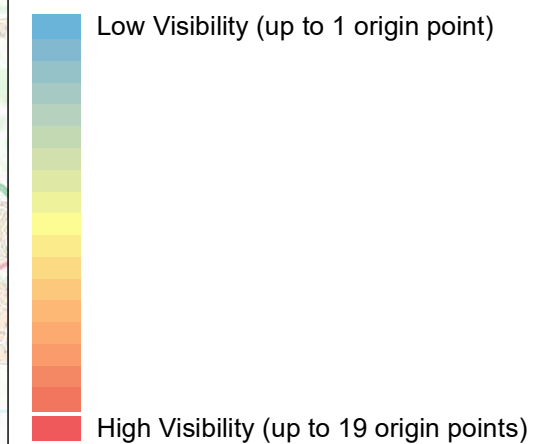


Legend

- Site Boundary
- Scheduled Monuments
- Conservation Areas
- Registered Parks and Gardens

Listed Buildings

- Grade I
- Grade II*
- Grade II



Notes:

ZTV compiled assuming observer height as 1.7 m at eye level, and takes into account screening effects of local settlements at 9m and existing vegetation / woodland at a height of 10m. 24 origin points, from within the Application Site, have been used to illustrate the full parameters of the proposed development. Including:

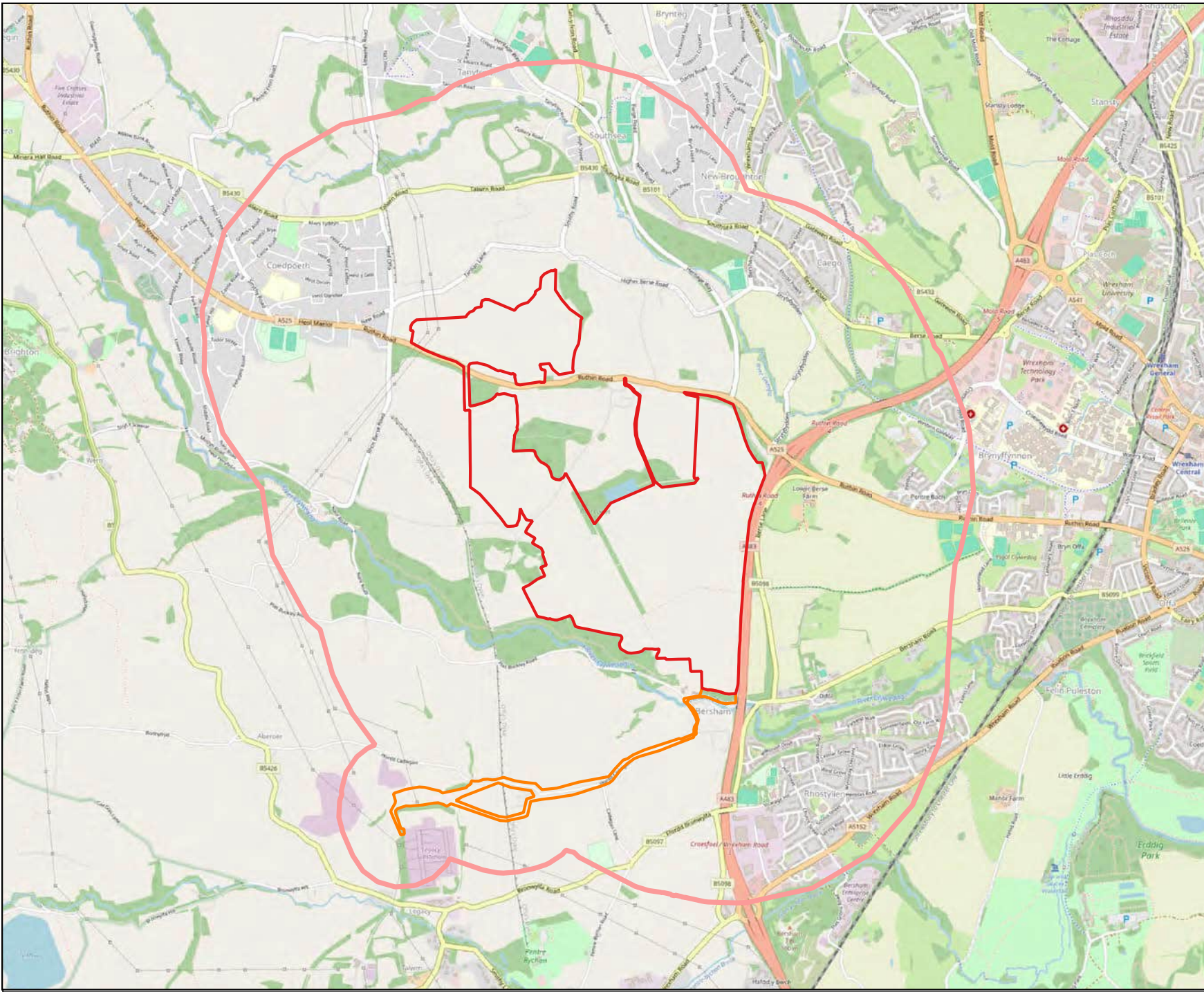
- 23 origin points (in total), set at 3m above existing ground level (EGL), within the centre of each of the fields of the Application Site containing solar panels; and,
- 1 origin point, set at 3m EGL, at the approximate highest point within the Application Site.

OS Terrain 5 data has been used for generating the ground model.

Figure 7.1
Designated Heritage Assets and the Zone of Theoretical Visibility

Figure 8.1
Study Area Buffer





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- Site Plan
- Cable Route
- Buffer Radius

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 A TETRA TECH COMPANY

Client: Lightsource BP

Title: Study Area Buffer

Site: Plas Power Solar Park

Date: 01-02-2024

Scale: 1:25000	Size: A3
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Job Ref: HLEF85062	Rev: 01
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Drawn CE	Checked TJ	Approved JM
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