

0697-ZTVs.qgs

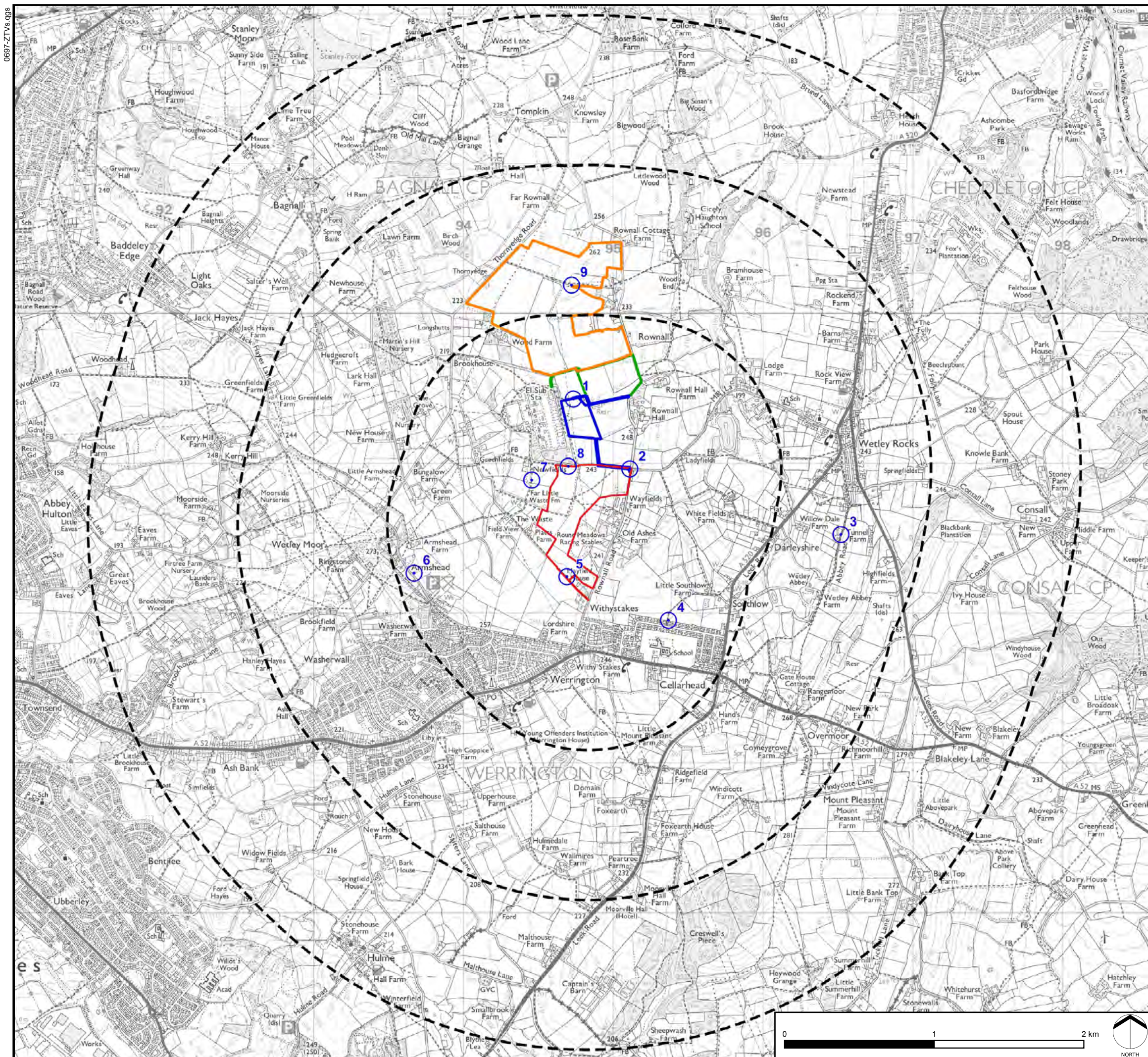
LAND WEST OF ROWNALL ROAD

FIGURE 6

Cumulative Sites Location Plan

KEY

-  Application Site Boundary
-  Distance Radii from Site (1 - 3km)
-  Assessment Viewpoints
-  Sirius BESS Site Boundary
-  Cellarhead BESS Site Boundary
-  Rownall Farm Solar Site Boundary



Projected Coordinate System: British National Grid

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LAND WEST OF ROWNALL ROAD

FIGURE 7

Cumulative ZTV between the Proposed Development and Cellarhead BESS

KEY

SITE

-  Application Site Boundary
-  Distance Radii from Site (1 - 3km)
-  Assessment Viewpoints
-  Cellarhead BESS Site Boundary

ZTV SCREENING

-  OS Buildings (7.5m Height)
-  OS Woodland (15m Height)

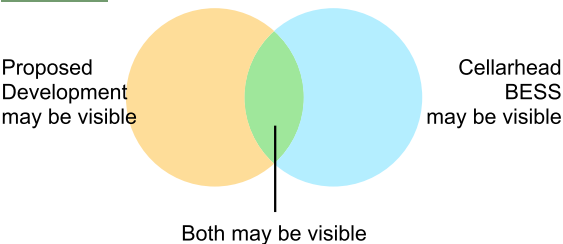


FIGURE DATA:

This figure has been based on the following data:

Layout file: 011_OS_ALL_COMBINED-2m-5km.shp;
0307-obvs-bund_2m-T5-5km.shp
Terrain data: EA LiDAR 2022 DTM 2m;
LSS_BESS_SITE_LANDFORM_DESIGN
Viewer's eye height: 2m above ground level

NOTES:

This drawing is based upon computer generated Zone of Theoretical Visibility (ZTV) studies produced using the Viewshed routine in the Visibility Analysis plugin for QGIS.

The areas shown are the maximum theoretical visibility, taking into account topography, principal woodlands and buildings.

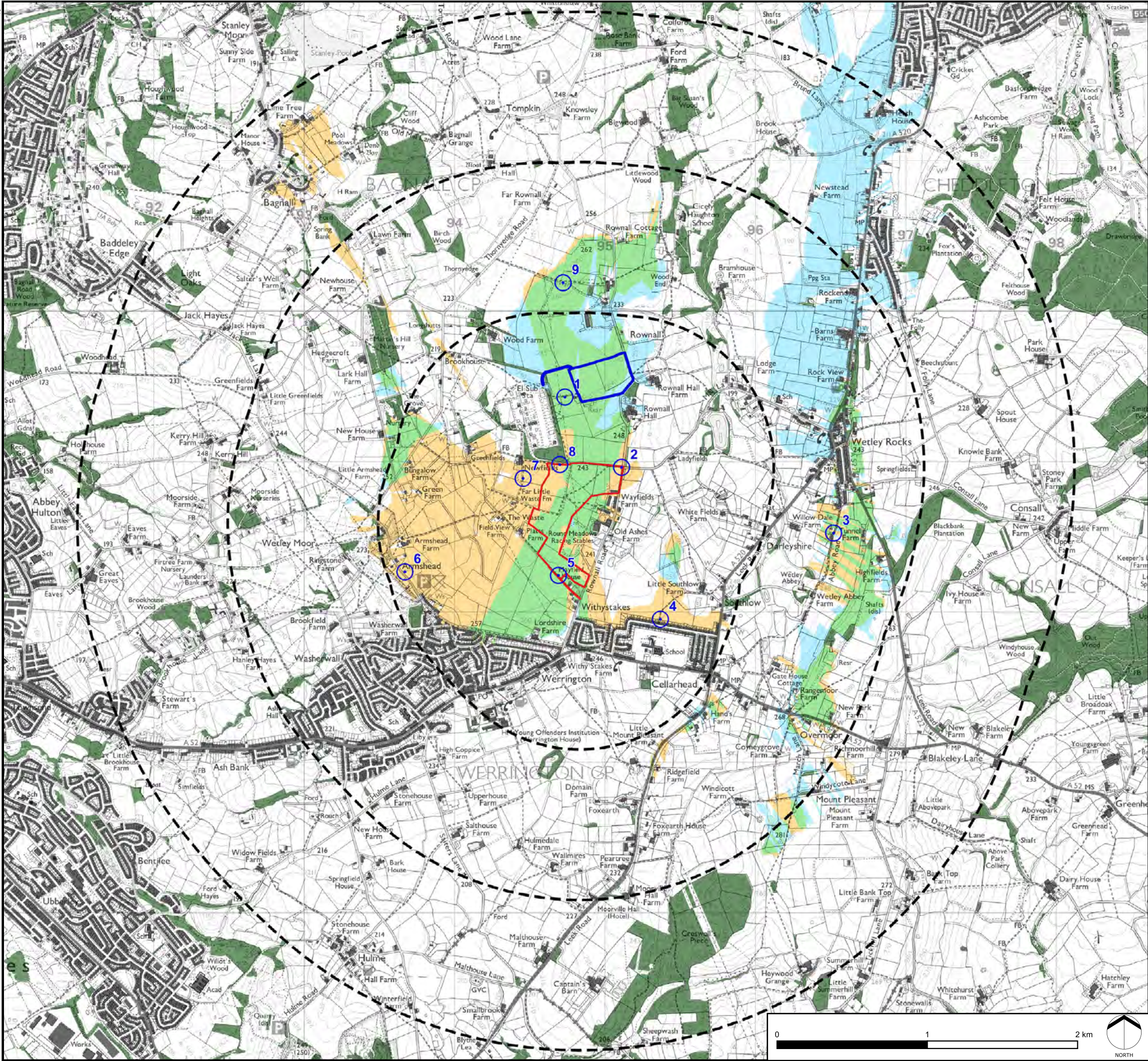
A digital surface model (DSM) has been derived from Environment Agency LiDAR 2m 2022 DTM height data with the locations of woodland and buildings taken from the OS VectorMap dataset. Buildings have been modelled with an assumed height of 7.5m and woodland an assumed height of 15m, representing a conservative estimate of average heights within the study area.

The model does not take into account some localised features such as small copses, hedgerows or individual trees and therefore still gives an exaggerated impression of the extent of visibility. The actual extent of visibility on the ground will be less than that suggested by this plan.

The ZTV includes an adjustment that allows for Earth's curvature and light refraction. It is based on a derived DSM and has a 2m² resolution.

Projected Coordinate System: British National Grid

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LAND WEST OF ROWNALL ROAD

FIGURE 8

Cumulative ZTV between the Proposed Development and Sirius BESS

KEY

SITE

-  Application Site Boundary
-  Distance Radii from Site (1 - 3km)
-  Assessment Viewpoints
-  Sirius BESS Site Boundary

ZTV SCREENING

-  OS Buildings (7.5m Height)
-  OS Woodland (15m Height)

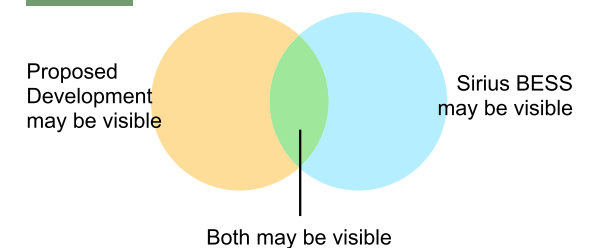


FIGURE DATA:

This figure has been based on the following data:

Layout file: 011_OS_ALL_COMBINED-2m-5km.shp;
0307-obvs-bund_2m-T5-5km.shp
Terrain data: EA LiDAR 2022 DTM 2m;
LSS_BESS_SITE_LANDFORM_DESIGN
Viewer's eye height: 2m above ground level

NOTES:

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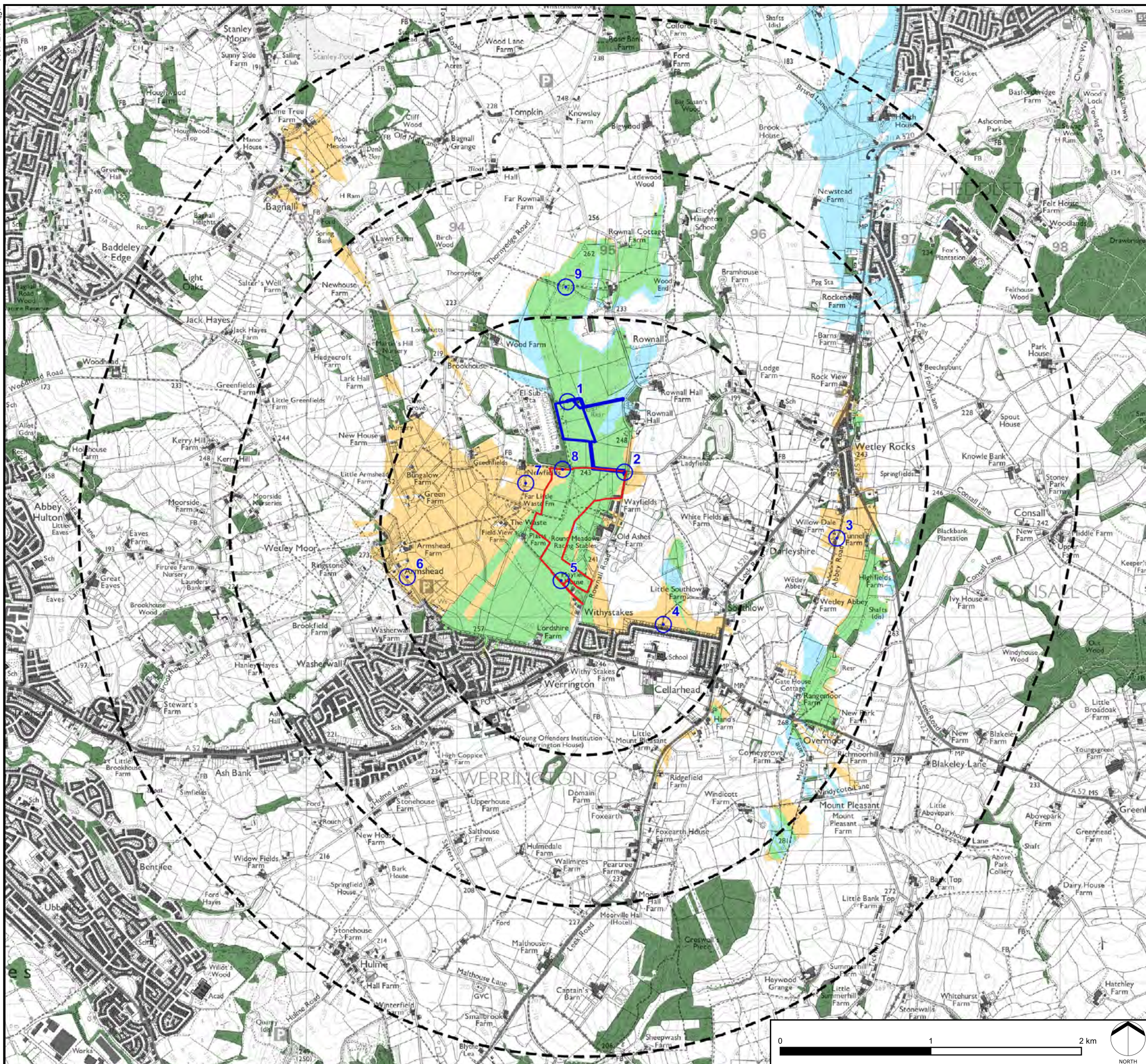
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LAND WEST OF ROWNALL ROAD

FIGURE 9

Cumulative ZTV between the Proposed Development and Rownall Farm Solar

KEY

SITE

-  Application Site Boundary
-  Distance Radii from Site (1 - 3km)
-  Assessment Viewpoints
-  Rownall Farm Solar Site Boundary

ZTV SCREENING

-  OS Buildings (7.5m Height)
-  OS Woodland (15m Height)

ZONE OF THEORETICAL VISIBILITY

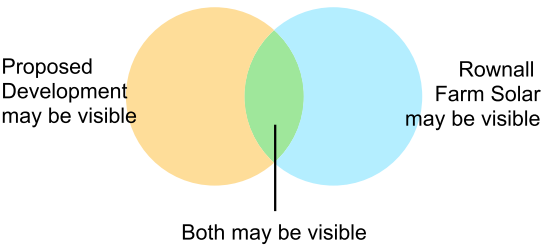


FIGURE DATA:

This figure has been based on the following data:
Layout file: 011_OS_ALL_COMBINED-2m-5km.shp;
rownall-obvs-panels-3m-LiDAR 2m-5km.shp
Terrain data: EA LiDAR 2022 DTM 2m;
LSS_BESS_SITE_LANDFORM_DESIGN
Viewer's eye height: 2m above ground level

NOTES:

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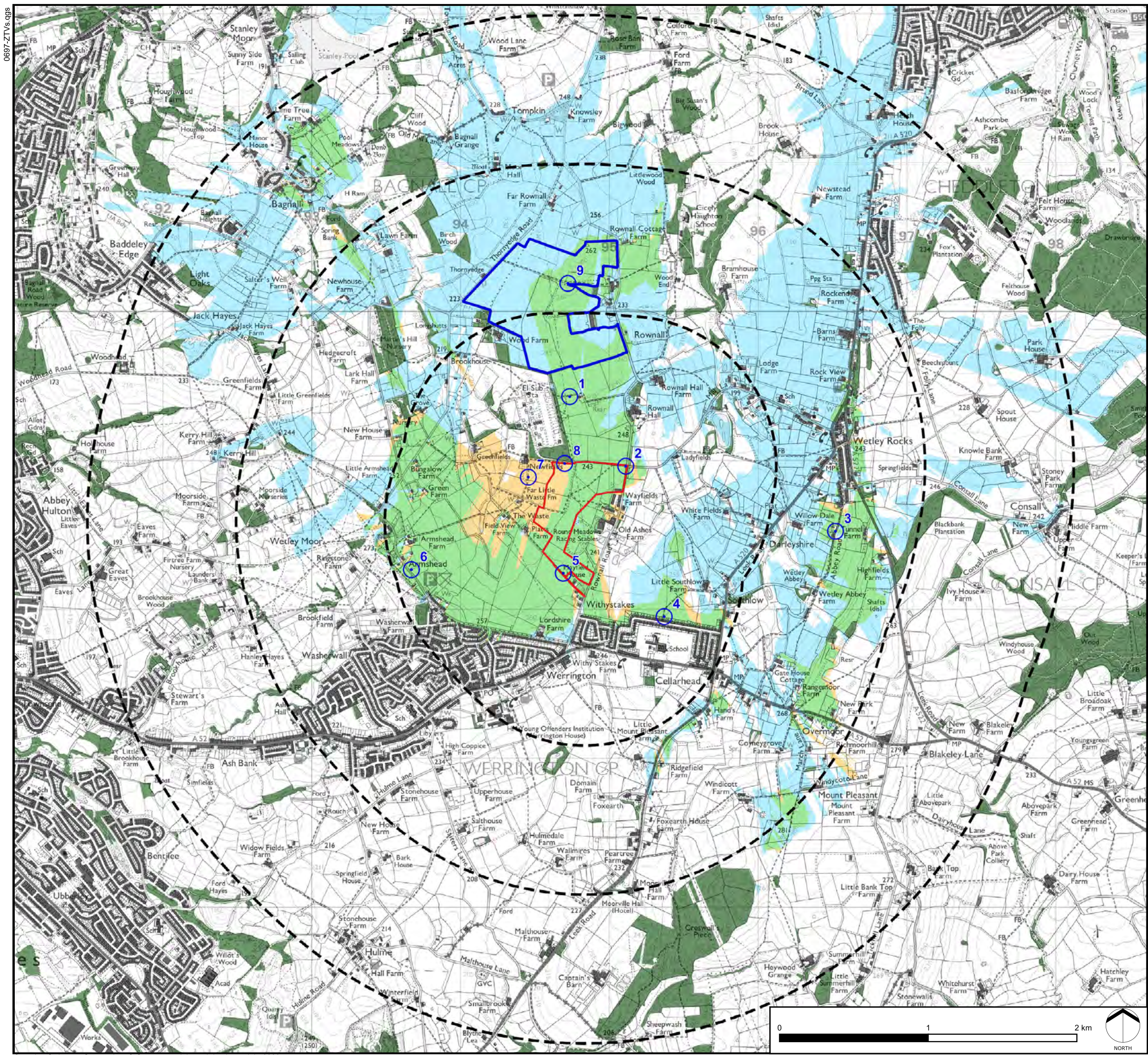
A digital surface model (DSM) has been derived from Environment Agency LiDAR 2m 2022 DTM height data with the locations of woodland and buildings taken from the OS VectorMap dataset. Buildings have been modelled with an assumed height of 7.5m and woodland an assumed height of 15m, representing a conservative estimate of average heights within the study area.

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LAND OF WEST ROWNALL ROAD

FIGURE 10

Cumulative ZTV between the Proposed Development, Cellarhead BESS, Sirius BESS and Rownall Farm Solar

KEY

SITE

- Application Site Boundary
- Distance Radii from Site (1 - 3km)
- Assessment Viewpoints
- Sirius BESS Site Boundary
- Cellarhead BESS Site Boundary
- Rownall Farm Solar Site Boundary

ZTV SCREENING

- OS Buildings (7.5m Height)
- OS Woodland (15m Height)

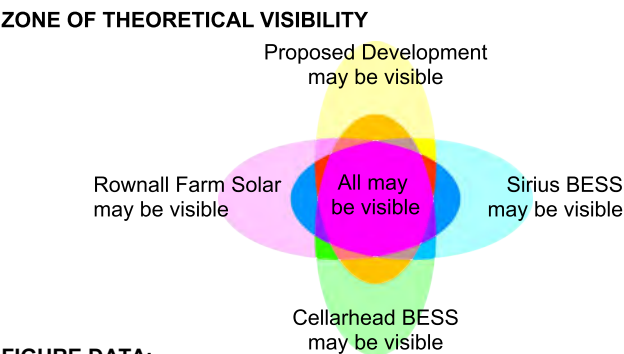


FIGURE DATA:
This figure has been based on the following data:
Layout file: 011_OS_ALL_COMBINED-2m-5km.shp;
sirius-obvs-3m_Bund-T5-3km.shp; 0307-obvs-bund_2m-T5-5km.shp;
rownall-obvs-panels-3m-LiDAR 2m-5km.shp
Terrain data: EA LiDAR 2022 DTM 2m;
LSS_BESS_SITE_LANDFORM_DESIGN
Viewer's eye height: 2m above ground level

NOTES:
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A digital surface model (DSM) has been derived from Environment Agency LiDAR 2m 2022 DTM height data with the locations of woodland and buildings taken from the OS VectorMap dataset. Buildings have been modelled with an assumed height of 7.5m and woodland an assumed height of 15m, representing a conservative estimate of average heights within the study area.
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