

**Tillbridge Solar Project**  
**EN010142**

**Volume 6**  
**Environmental Statement**  
**Figure 12-4A-H: Zones of Theoretical Visibility**  
**Document Reference: EN010142/APP/6.3**

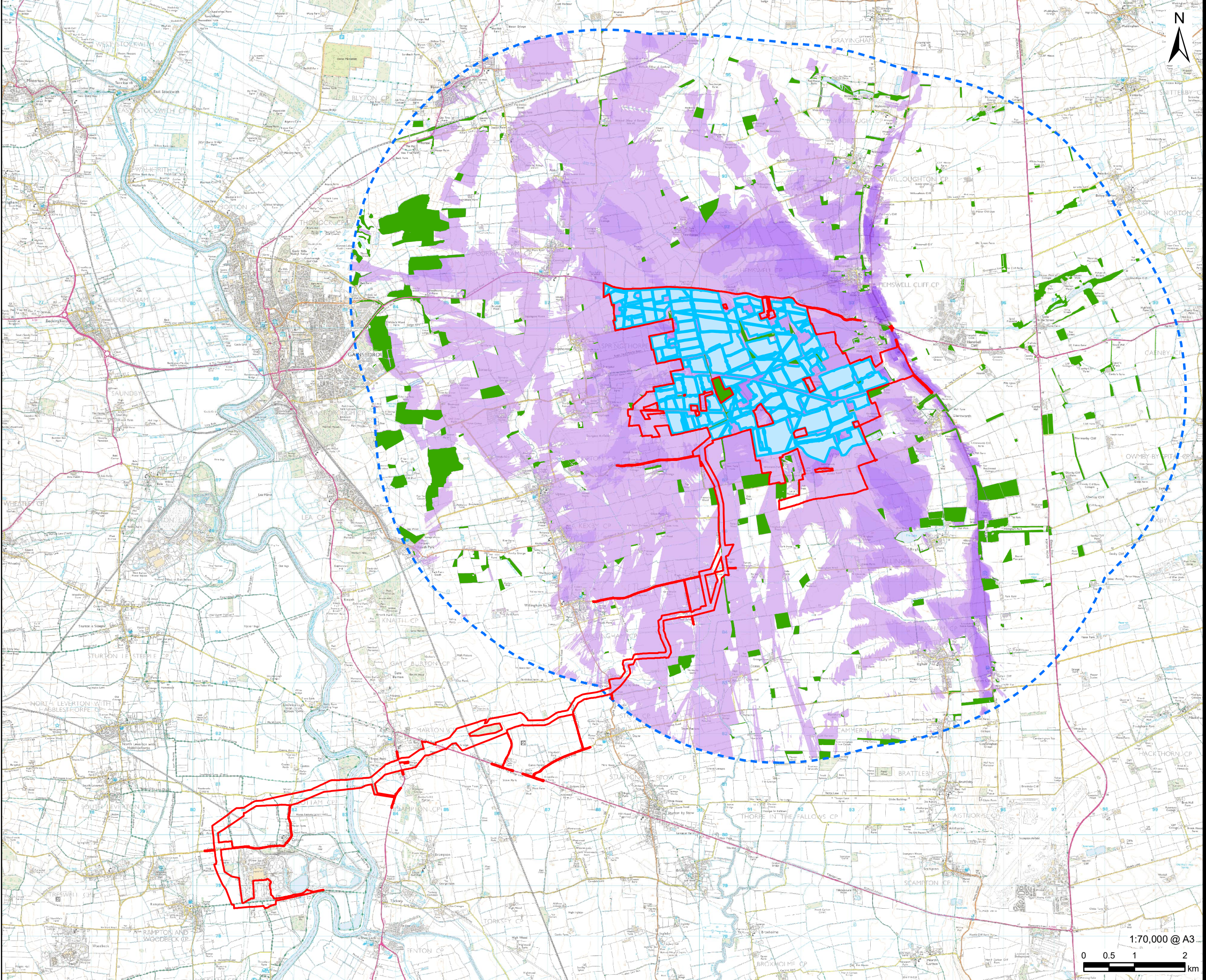
**Regulation 5(2)(a)**  
**Infrastructure Planning (Applications: Prescribed Forms and**  
**Procedure) Regulations 2009**

**April 2024**  
**Revision Number: 00**

**tillbridgesolar.com**

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**PROJECT**  
 Tillbridge Solar Project

**CLIENT**  
 Tillbridge Solar Ltd

**CONSULTANT**  
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- LEGEND**
- Order limits
  - Principal Site - 5km Buffer
  - Indicative Solar Panel Boundary
  - Building
  - Woodland
- Zone of Theoretical Visibility - Degree of Maximum Visibility of the Solar Panels Area**
- Not Visible
  - 1 - 25%
  - 25 - 50%
  - 50 - 75%
  - 75 - 100%

**NOTES**

1. The Zone of Theoretical Visibility (ZTV) is based upon points along the external boundary to the indicative solar panel area with an anticipated panel height of 3.5m and an observer height of 1.5m. It does not reflect all theoretical visibility arising from panels located within the external solar panel boundary.
2. The ZTV has been generated using Environment Agency Digital Terrain Model (DTM) with a 2m resolution. To provide evidence of theoretical screening, two additional databases have been included: OS Open Data with assumed height for buildings of 8m; and the Forestry Commission National Forestry Inventory (2021) and OS Open Data, with an assumed height of 11m.
3. The ZTV has been produced in order to inform 'on the ground' visual assessment and does not include effects of screening derived from hedgerows or trees not included within the woodland database noted above.
4. ZTV calculated using ArcGIS 10.8.1 Viewshed tool.
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**ISSUE PURPOSE**  
 DCO Submission  
**PROJECT NUMBER**  
 60677969

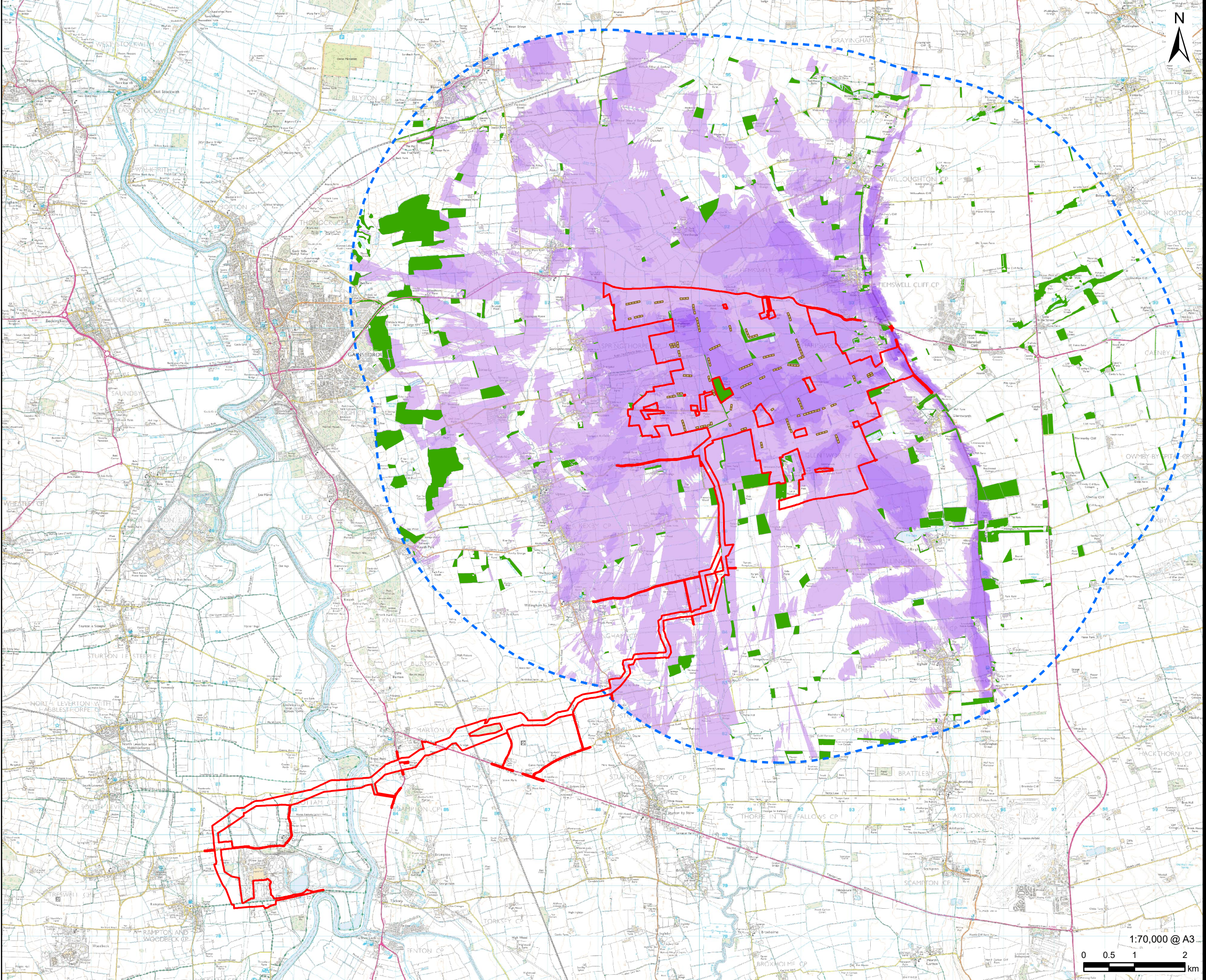
**FIGURE TITLE**  
 Zone of Theoretical Visibility - Solar Panels with Buildings and Woodland Screening

**FIGURE NUMBER**  
 Figure 12-4b

1:70,000 @ A3  
 0 0.5 1 2 km

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- LEGEND**
- Order limits
  - Principal Site - 5km Buffer
  - Building
  - Woodland
  - Indicative BESS/Solar Station Boundary

- Zone of Theoretical Visibility - Degree of Maximum Visibility of all Solar Stations/BESS Combined**
- Not Visible
  - 1 - 25%
  - 25 - 50%
  - 50 - 75%
  - 75 - 100%

**NOTES**

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1. The Zone of Theoretical Visibility (ZTV) is based on points along the solar station/battery storage boundaries with an anticipated height of 4m and an observer height of 1.5m.
2. The ZTV has been generated using Environment Agency Digital Terrain Model (DTM) with a 2m resolution. To provide evidence of theoretical screening, two additional databases have been included: OS Open Data with assumed height for buildings of 8m; and the Forestry Commission National Forestry Inventory (2021) and OS Open Data, with an assumed height of 11m.
3. The ZTV has been produced in order to inform 'on the ground' visual assessment and does not include effects of screening derived from hedgerows or trees not included within the woodland database noted above.
4. ZTV calculated using ArcGIS 10.8.1 Viewshed tool.
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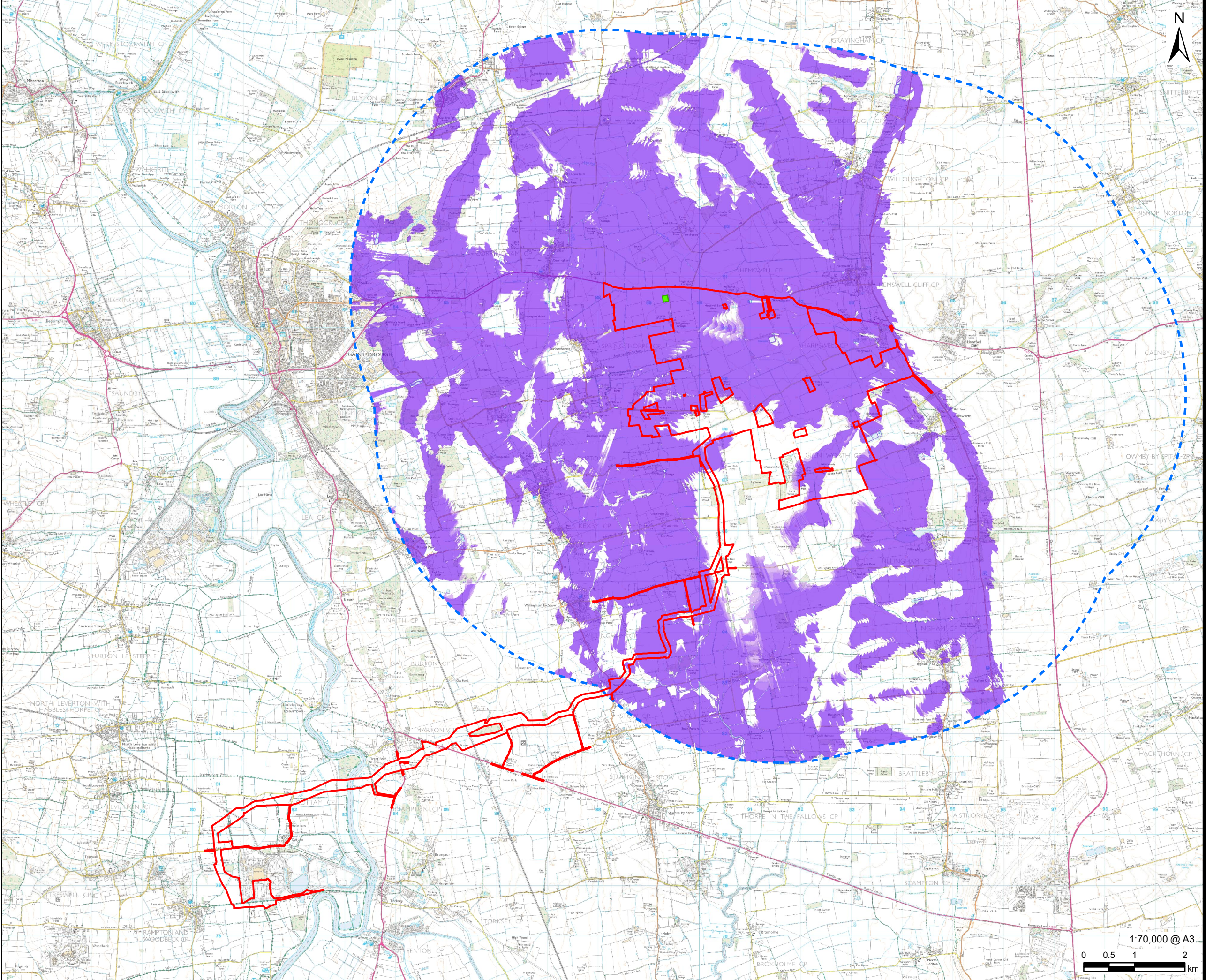
**ISSUE PURPOSE**  
PEI Report  
**PROJECT NUMBER**  
60677969

**FIGURE TITLE**  
Zone of Theoretical Visibility - Solar Stations and Battery Storage (BESS) with Buildings and Woodland Screening

**FIGURE NUMBER**  
Figure 12-4d

1:70,000 @ A3  
0 0.5 1 2 km

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- LEGEND**
- Order limits
  - Principal Site - 5km Buffer
  - Indicative Location of Substation A
- Zone of Theoretical Visibility - Degree of Maximum Visibility of Substation A Area**
- Not Visible
  - 1 - 25%
  - 25 - 50%
  - 50 - 75%
  - 75 - 100%

- NOTES**
1. The Zone of Theoretical Visibility (ZTV) is based upon points along the external boundary to the Substation A Area with an anticipated height of 10m and an observer height of 1.5m.
  2. The ZTV has been generated using Environment Agency Digital Terrain Model (DTM) with a 2m resolution.
  3. The ZTV has been produced in order to inform 'on the ground' visual assessment and is based on a 'bare earth' model that does not include effects of screening derived from buildings or vegetation.
  4. ZTV calculated using ArcGIS 10.8.1 Viewshed tool.
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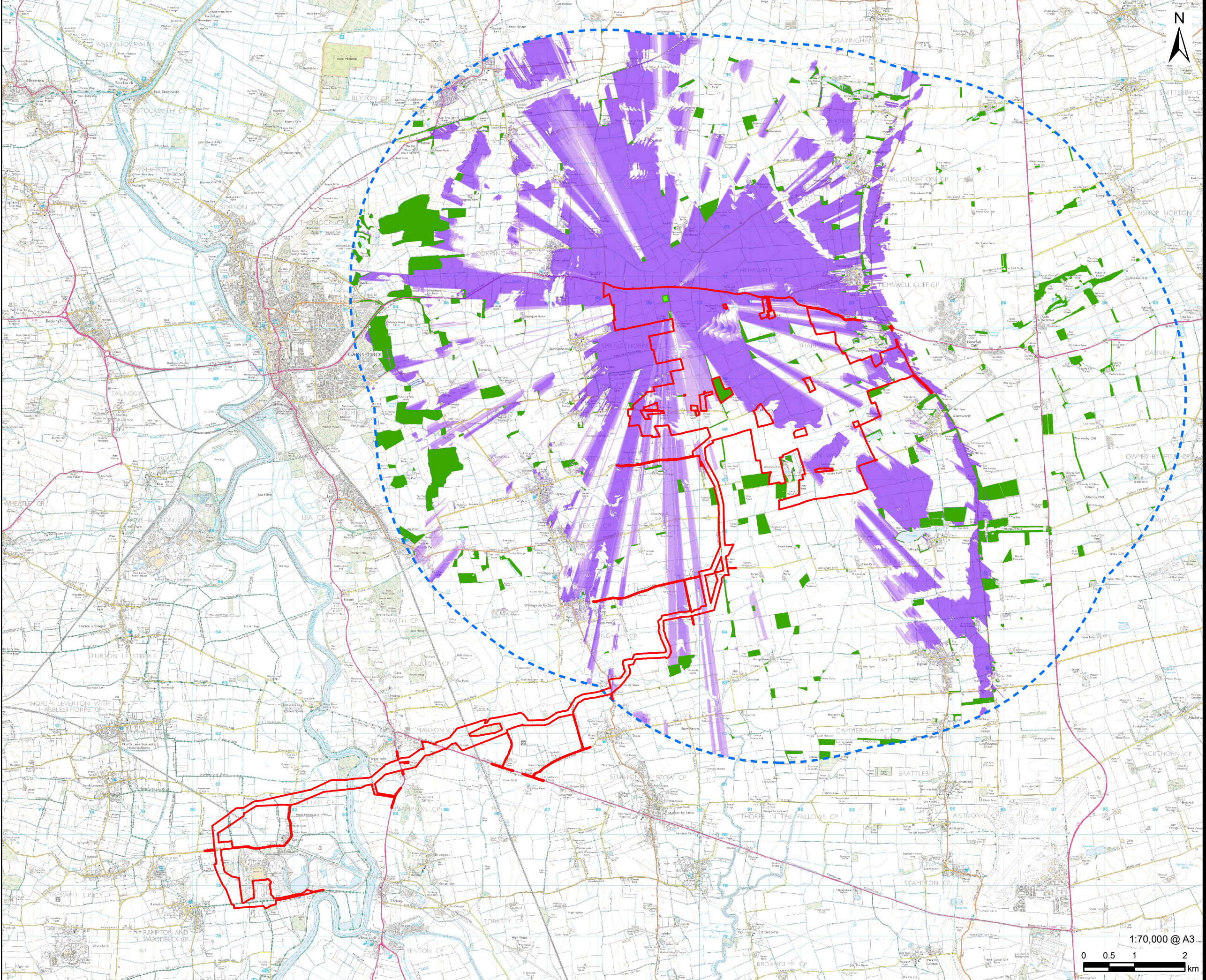
**ISSUE PURPOSE**  
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**FIGURE TITLE**  
 Zone of Theoretical Visibility - Substation A Bare Earth

**FIGURE NUMBER**  
 Figure 12-4e



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**LEGEND**

- Order limits
  - Principal Site - 5km Buffer
  - Indicative Location of Substation A
  - Building
  - Woodland
- Zone of Theoretical Visibility - Degree of Maximum Visibility of Substation A Area**
- Not Visible
  - 1 - 25%
  - 25 - 50%
  - 50 - 75%
  - 75 - 100%

**NOTES**

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- The Zone of Theoretical Visibility (ZTV) is based upon points along the external boundary to the indicated Substation A Area with an anticipated station height of 10m and an observer height of 1.5m. It does not take account of theoretical visibility arising from panels within the solar panel area.
- The ZTV has been generated using Environment Agency Digital Terrain Model (DTM) with a 2m resolution. To provide evidence of theoretical screening, two additional databases have been included: OS Open Data with assumed height for buildings of 8m; and the Forestry Commission National Forestry Inventory (2021) and OS Open Data, with an assumed height of 11m.
- The ZTV has been produced in order to inform 'on the ground' visual assessment and does not include effects of screening derived from hedgerows or trees not included within the woodland database noted above.
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**FIGURE TITLE**

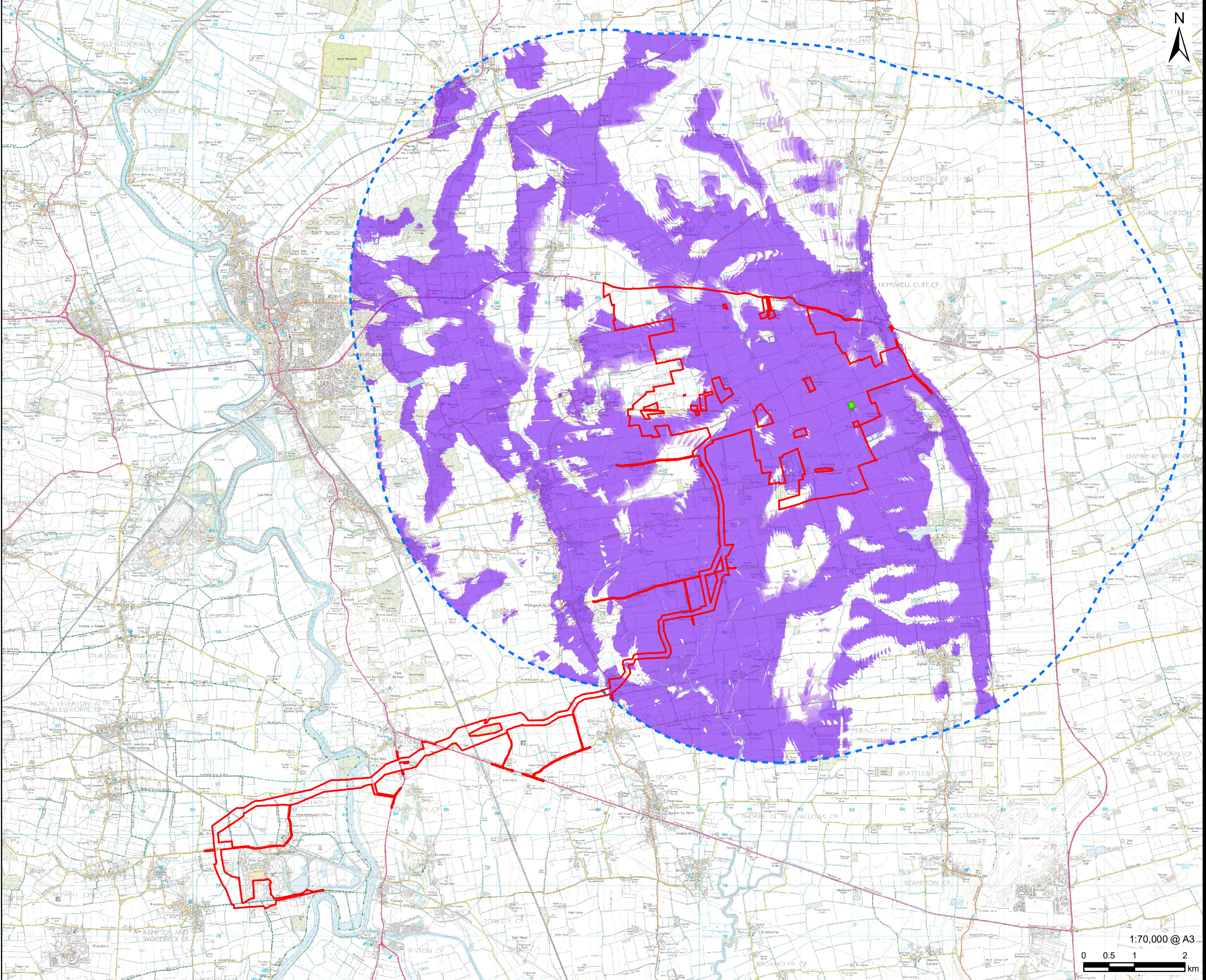
Zone of Theoretical Visibility - Substation A with Buildings and Woodland Screening

**FIGURE NUMBER**

Figure 12-4f

1:70,000 @ A3  
0 0.5 1 2 km

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- LEGEND**
- Order limits
  - Principal Site - 5km Buffer
  - Indicative Location of Substation B
  - Zone of Theoretical Visibility - Degree of Maximum Visibility of Substation B Area**
  - Not Visible
  - 1 - 25%
  - 25 - 50%
  - 50 - 75%
  - 75 - 100%

- NOTES**
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  2. The Zone of Theoretical Visibility (ZTV) is based upon points along the external boundary to the Substation B Area with an anticipated height of 10m and an observer height of 1.5m.
  3. The ZTV has been generated using Environment Agency Digital Terrain Model (DTM) with a 2m resolution.
  4. The ZTV has been produced in order to inform 'on the ground' visual assessment and is based on a 'bare earth' model that does not include effects of screening derived from buildings or vegetation.
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 DCO Submission  
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 60677969

**FIGURE TITLE**  
 Zone of Theoretical Visibility - Substation B Bare Earth

**FIGURE NUMBER**  
 Figure 12-4g

1:70,000 @ A3  
 0 0.5 1 2 km

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