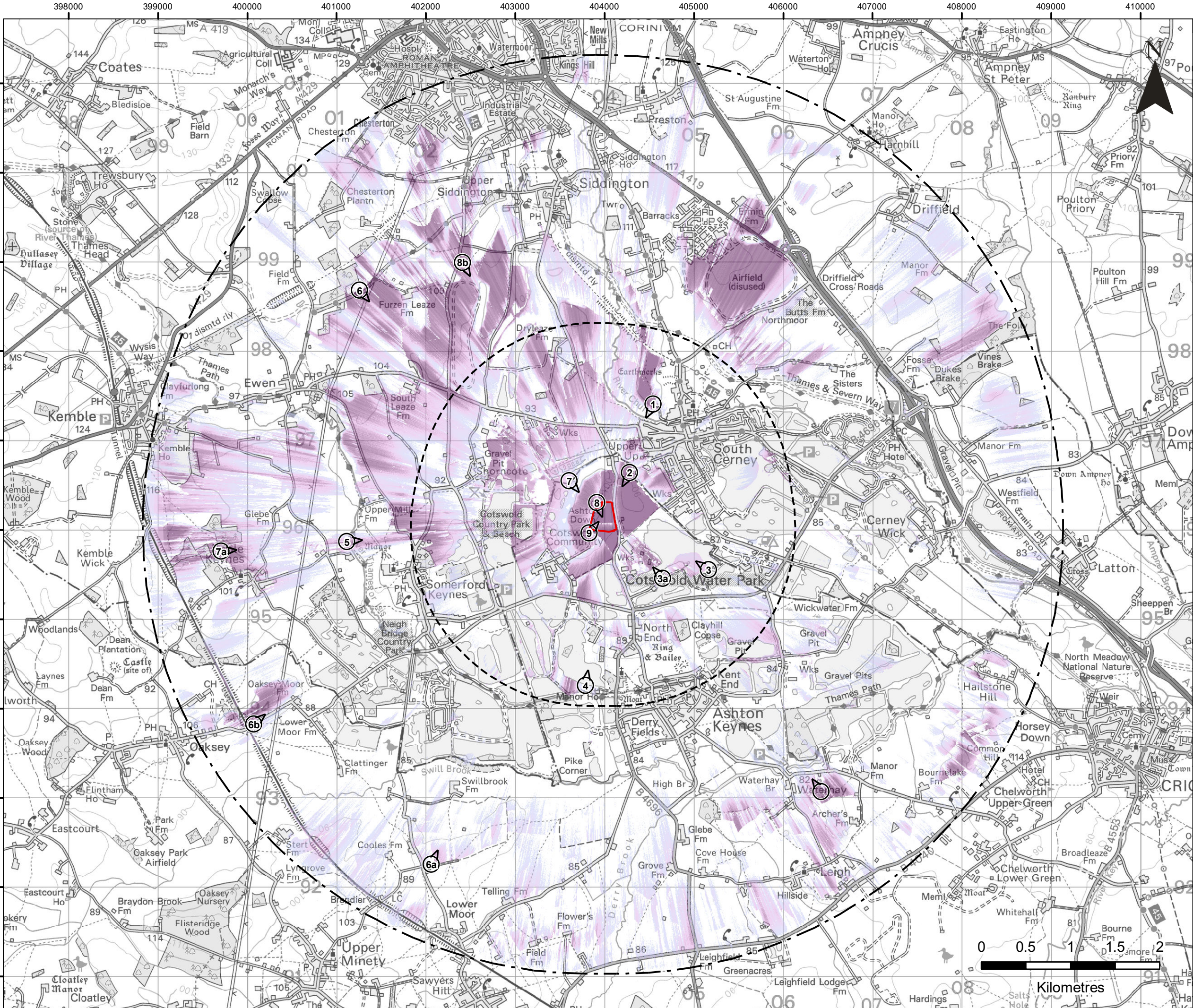




LEGEND

- Site Boundary
- Site Boundary 2 km Buffer
- Landscape Study Area (5 km)
- VP Location

Zone of Theoretical Visibility: Screened Scenario

Proportion of Site Visible (17 m Height)

- Higher Number of Points (Based off a 50 m Grid)
- Lower Number of Points (Based off a 50 m Grid)

Note

This Zone of Theoretical Visibility (ZTV) has been generated using ESRI ArcGIS Spatial Analyst extension. The digital terrain model (DTM) has been derived from The Environment Agency National LIDAR Programme 1 m spatial resolution with an vertical accuracy of +/-15 cm RMSE. Earth curvature has been included in the ZTV calculation and refraction of light has been applied using ESRI default settings. The ZTV has been generated from a viewing height of 2m above ground level which falls within recommendations by "Visual Representation of Windfarms" prepared for Scottish Natural Heritage (SNH) February 2017 - Version 2.2.

The use of ZTV mapping at this stage is limited and the following assumptions should be noted:

- The ZTV has been generated using a 50m grid of the maximum developable area.
- A building height of 17 m has been used for generating the ZTV.
- The ZTV accounts for the localised screening effects of vegetation and buildings utilising the Environment Agency National LIDAR Programme DSM 1 m spatial resolution data. The heights of buildings and vegetation have been generated by calculating the difference between DSM and DTM. Where the height difference is greater than 1 m, this has been classified as zero visibility of the development. The ZTV does not indicate potential visual effects or show the likely significance of effects. It shows potential theoretical visibility only. The ZTV has been produced for the purpose of informing 'on the ground' visual assessment.
- The ZTV colour palette has been specifically developed to assist viewers with reduced sensitivity to red, green and blue light.
- The ZTV has been generated up to 5 km from the proposed site.

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LANDSCAPE

**ZONE OF THEORETICAL VISIBILITY
WITH VIEWPOINTS**

FIGURE 8

Scale 1:40,000 @ A3

Date APRIL 2023