Cornerstone : Supporting Technical Information for O2 & Vodafone : -

CS 14601 (New Street/Wood Street Junction)

O2 Site – 46277

3G New Requirement

Vodafone Site – 45757

Date Prepared: 27th May 2010

KEY TO O2 COVERAGE PLOTS

The enclosed radio propagation plots are based on Ordnance Survey geographical information.

The level of coverage provided by a particular site is dependant on a number of variables. The main factors which determine the extent of coverage are: the frequency of the signal emitted, the height of the antenna above ground level, the characteristics of the surrounding topography and the type and occurrence of ground clutter such as buildings and trees which can cause 'shadows' or reflections and can absorb the signal.

The O2 Radio Planners have produced accurate visual representations of the level of coverage available in this particular area by using advanced computer modelling software based on a Geographical Information System. The programme takes the numerous variables as above into account and can then calculate and plot the strength of the signal.

Existing and proposed sites are indicated by a red circle and dot with the site number. The orientation of the antennas is shown by the arrows.



Site arrows show orientation of antennas

Note on large rooftop sites the antenna can be distributed in different locations from the site location. This is represented by a line extending outwards from the site to the antenna

Key for GSM (2G) Plots

Orange	Sufficient signal strength to provide adequate service for indoor use of a hand portable mobile in urban areas.	**Indoor Urban**
Blue	Sufficient signal strength to provide adequate service for indoor use of a hand portable mobile in suburban areas	**Indoor Suburban**
Green	Sufficient signal strength to provide adequate service for use of a hand portable mobile in a car	**In Car**
Yellow	Sufficient signal strength to provide adequate service for outdoor use of a hand portable mobile.	**Outdoor**
No Colour	Insufficient signal strength to provide reliable service.	**No Coverage**

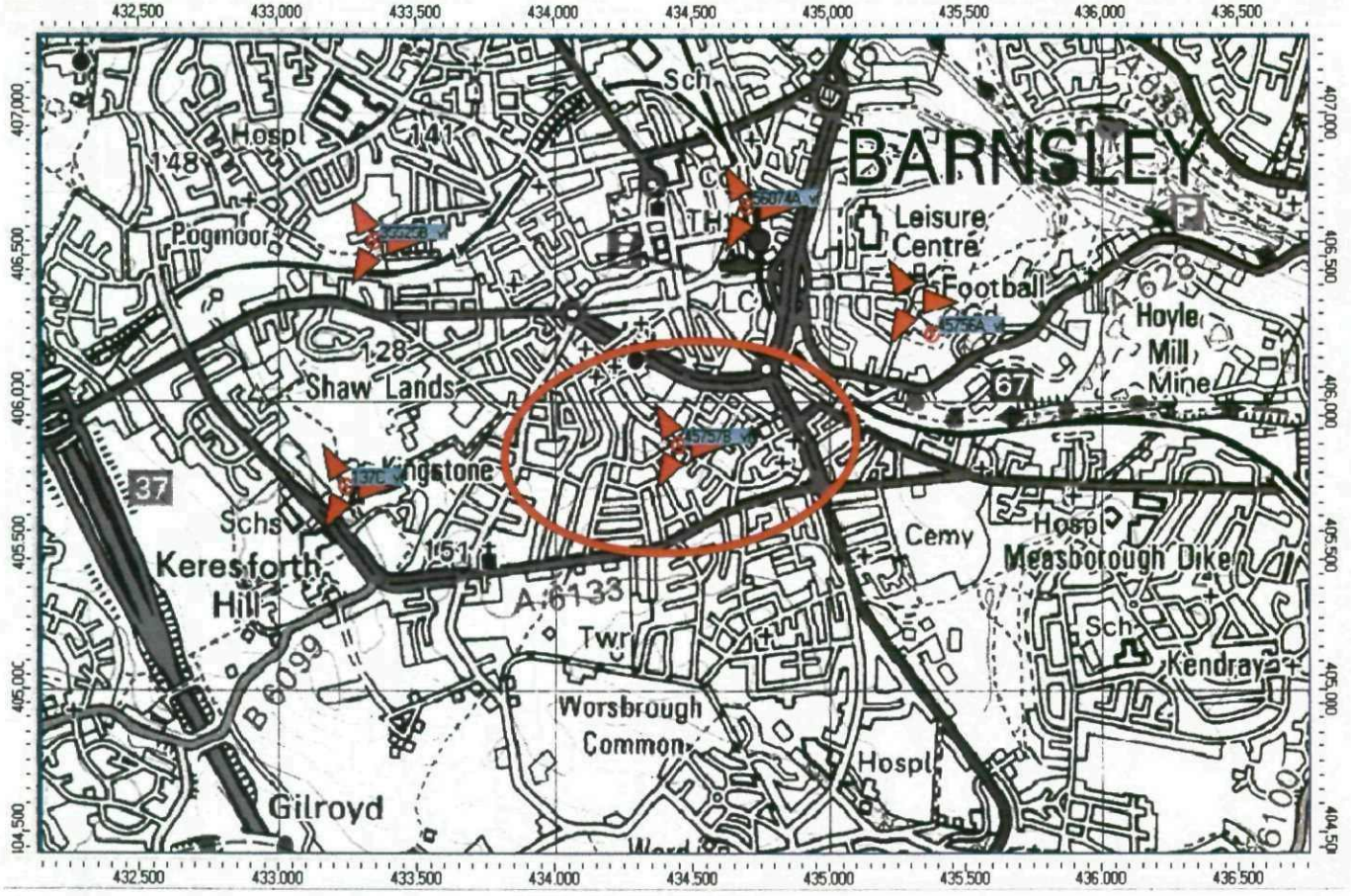
Key for UMTS (3G) Plots

Orange	Sufficient signal strength to provide adequate service for indoor use of a hand portable mobile in urban areas.	**Indoor Urban**
Blue	Sufficient signal strength to provide adequate service for indoor use of a hand portable mobile in suburban areas	**Indoor Suburban**
Green	Sufficient signal strength to provide adequate service for use of a hand portable mobile in a car	**In Car**
Yellow	Sufficient signal strength to provide adequate service for outdoor use of a hand portable mobile.	**Outdoor**
No Colour	**Insufficient signal strength to provide reliable service.**	**No Coverage**

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Vodafone – Existing Site Location

COVERAGE PLAN



3G Coverage by Signal Level

- Dense Urban/Urban
- Suburban
- In Car
- Outdoor

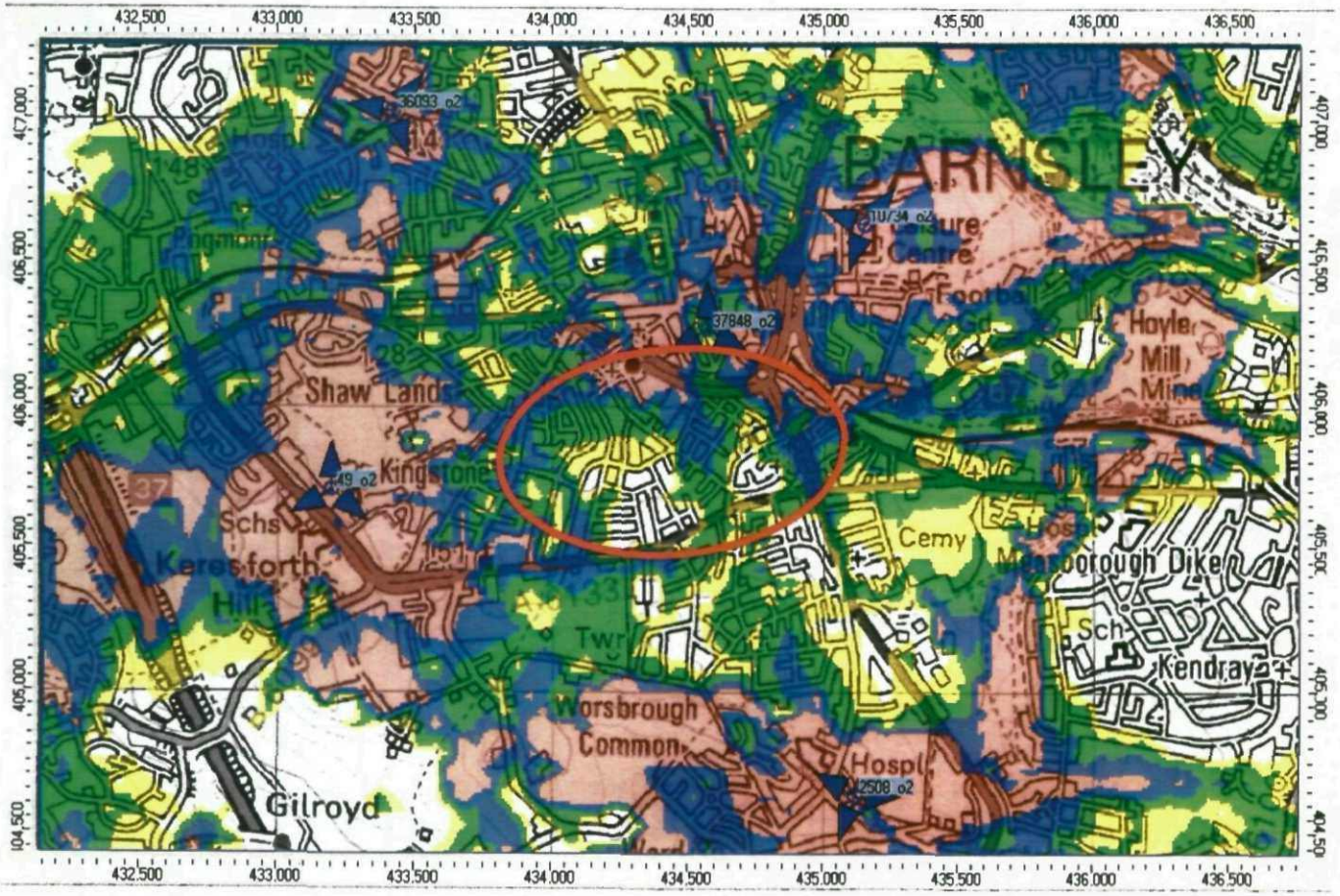
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This coverage plan must be read in conjunction with the key and other supplementary information. Each colour block represents 10 metres square.

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O2 - Existing UMTS (3G) Coverage

PLOT 1



3G Coverage by Signal Level

- Dense Urban/Urban
- Suburban
- In Car
- Outdoor

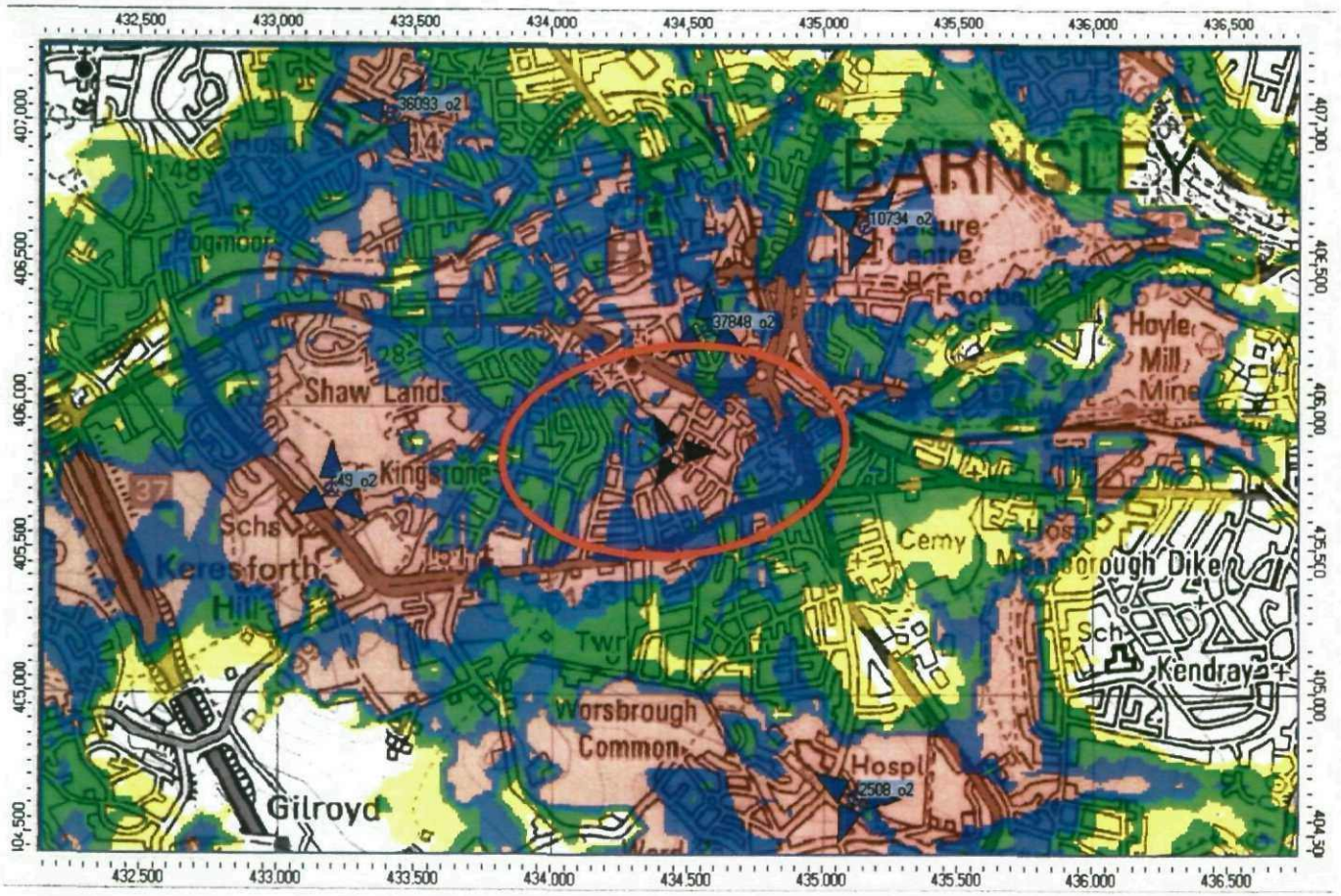
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O2 - Proposed UMTS (3G) Coverage

PLOT 2



3G Coverage by Signal Level

- Dense Urban/Urban
- Suburban
- In Car
- Outdoor

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