T-Mobile

# 2G COVERAGE PLOTS

**Date Created:** 25 April 2008

**T-Mobile Cell Id:** 56113
**T-Mobile Site Name:** CHESTER ROAD ROUNDABOUT

## Purpose of Site

The site is required to provide a high level of 2G coverage and a high grade of service to the Manchester, Mancunian Way area. In order to provide coverage at commercial and residential indoor levels, the populated areas should be coloured magenta and green respectively.

### Plot ref. 55107 – Coverage from existing and planned sites without 56113 CHESTER ROAD ROUNDABOUT

The plot shows the coverage from existing and planned sites where planning permission has been approved or submitted. The coverage does not include cell 56113 CHESTER ROAD ROUNDABOUT or any sites where planning permission has not yet been submitted. The plot shows that the local area of Manchester, Mancunian Way is not adequately covered to commercial and residential indoor signal levels.

### Plot ref. 55108 – Coverage from 56113 CHESTER ROAD ROUNDABOUT in isolation

The plot shows the coverage provided from cell 56113 CHESTER ROAD ROUNDABOUT in isolation at an assumed transmission height of 19 m. The plot shows that the site provides commercial and residential indoor signal levels to the local area of Manchester, Mancunian Way.

### Plot ref. 55109 – Coverage from 56113 CHESTER ROAD ROUNDABOUT and surrounding sites

The plot shows the coverage from 56113 CHESTER ROAD ROUNDABOUT and surrounding sites where planning permission has been approved or submitted. This plot shows the improvement in coverage that this site brings to the area of Manchester, Mancunian Way when compared to plot ref. 55107.

# KEY TO COVERAGE PLOTS

2G stands for second generation mobile services and is also known as GSM (Global System for Mobile Communications). Analogue Mobile was the first generation of mobile communications (1G), and was soon followed by GSM or 2G and GPRS (General Packet Radio Service) or 2.5G and lately UMTS (Universal Mobile Telecommunications System) or 3G. T-Mobile's GSM network not only provides high quality voice service but also offers GPRS data services.

The plots submitted are a geographical representation of the predicted service level coverage. This is a result of simulation software that predicts the coverage through advanced modelling and calculations. The main factors which affect the calculations are: the power and the frequency of the signal emitted, the height of the antenna, the topography and traffic forecast of the area and the ground clutter such as buildings. However, T-Mobile UK's predictor is unable to account for local tree heights and road/railway cuttings. These cause further attenuation of the signal.

## Predicted Coverage Levels Shown On Plots

Coloured bands depict service levels. In the enclosed plot the colours represent different service levels as follows:

| | | |
|---|---|---|
| | Sufficient signal strength to provide indoor service for Urban or Commercial areas. | Urban and Commercial level of coverage |
| | Sufficient signal strength to provide indoor service for Suburban and Residential areas. | Suburban and Residential level of coverage |
| | Sufficient signal strength to provide In-vehicle service. | In-vehicle level of coverage |

## Existing and Planned Sites and its Location are Indicated by a Circle with its Site Name

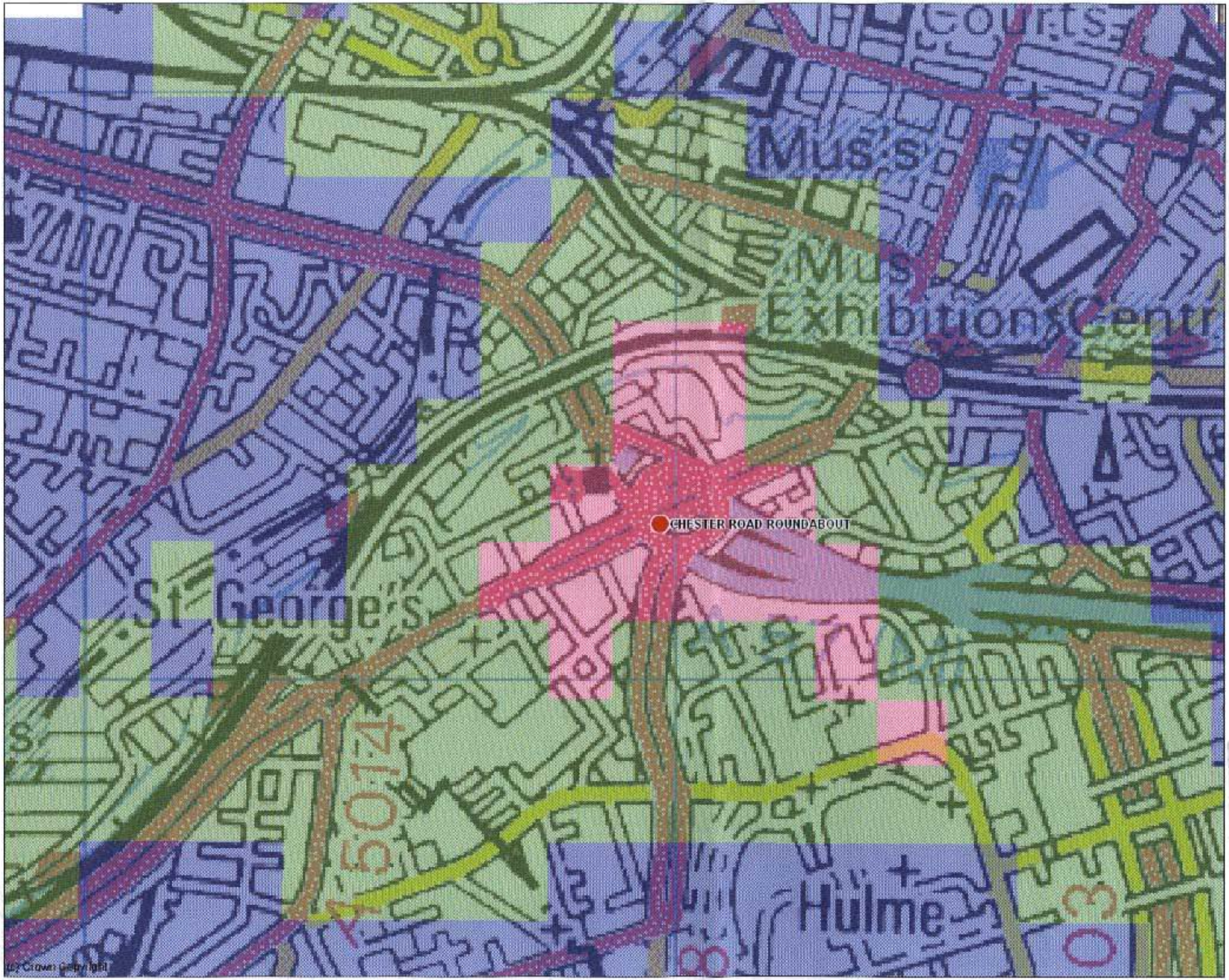
In-Service sites or sites where planning permission has been submitted/approved.

Nominal sites or planned sites where planning permission has not yet been submitted.
Nominal sites are ideal location where an area will be searched to find suitable sites. It does not indicate a definite location where a site will be built. A planned site however, already has its exact location identified.

## Existing and Planned Sites shown on Plots

| Cell Id | Northing | Easting | Site Name | Notes |
|---|---|---|---|---|
| 51965 | 397952 | 382161 | ALI AUTOS | Site already exists. |
| 56009 | 397120 | 382310 | BENNETT BROS (B) | Site already exists. |
| 56037 | 397800 | 383069 | THE MANCHESTER YMCA | Application to be submitted. |
| 56112 | 397580 | 383699 | JURYS INN MANCHESTER | Planning permission approved. |
| 56113 | 397267 | 382978 | CHESTER ROAD ROUNDABOUT | Site being justified in these plots. |
| 66153 | 397957 | 383715 | SCOTTISH MUTUAL HOUSE | Site already exists. |
| 76170 | 397827 | 382234 | OLDFIELD ROAD / REGENT ROAD | Site already exists. |
| 76171 | 398212 | 382140 | BLUCHER STREET/ LIVERPOOL STRE | Site already exists. |
| 93695 | 397523 | 383493 | WRENDALL HOUSE | Site already exists. |

PLANNING
02 MAY 2008




## 2G COVERAGE

T-Mobile Plot Ref: 55107

Cell 56113

Coverage from the proposed cell 56113 CHESTER ROAD ROUNDABOUT in isolation.

LEGEND

- Urban and Commercial level of coverage.
- Suburban and Residential level of coverage.
- In-Vehicle coverage
- In-service sites or sites where planning permission has been submitted/approved.
- Nominal sites or planned sites where planning permission has not yet been submitted.

Reproduced from the 1997 Ordnance Survey 1:50 000 Scale Landranger map with the permission of The Controller of Her Majesty's Stationery Office, Crown copyright Mercury Personal Communications, Borehamwood, Herts. Licence No. AI 51266A0001




## 3G COVERAGE

T-Mobile Plot Ref: 55112

Cell 56113

Coverage from existing and planned sites in the area including the proposed cell 56113 CHESTER ROAD

LEGEND

- Urban and Commercial level of coverage.
- Suburban and Residential level of coverage.
- Outdoor level of coverage
- In-service sites or sites where planning permission has been submitted/approved.
- Nominal sites or planned sites where planning permission has not yet been submitted.

PLANN
ACAT
REPLIED
RECD 02 MAY 2008
M
M
M
FOR ATTION
N

Reproduced from the 1997 Ordnance Survey 1:50 000 Scale Landranger map with the permission of The Controller of Her Majesty's Stationary Office. Crown copyright Mercury Personal Communications, Borehamwood, Herts, Licence No. AL 51206A0001