



2G COVERAGE PLOTS

Date Created: 17 April 2007

T-Mobile Cell Id: 55830

T-Mobile Site Name: WESTERGATE STREET SW

Purpose of Site

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

Plot ref. 50999 – Coverage from existing and planned sites without 55830 WESTERGATE STREET SW

The plot shows the coverage from existing and planned sites where planning permission has been approved or submitted. The coverage does not include cell 55830 WESTERGATE STREET SW or any sites where planning permission has not yet been submitted. The plot shows that the local area of Westergate is not adequately covered to commercial and residential indoor signal levels.

Plot ref. 51002 – Coverage from 55830 WESTERGATE STREET SW in isolation

The plot shows the coverage provided from cell 55830 WESTERGATE STREET SW in isolation at an assumed transmission height of 11 m. The plot shows that the site provides commercial and residential indoor signal levels to the local area of Westergate.

Plot ref. 51003 – Coverage from 55830 WESTERGATE STREET SW and surrounding sites

The plot shows the coverage from 55830 WESTERGATE STREET SW 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 Westergate when compared to plot ref. 50999.

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 and Commercial level of coverage



Sufficient signal strength to provide indoor service for 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                                |
|---------|----------|---------|----------------------|--------------------------------------|
| 55781   | 106580   | 496785  | HOOE FARM UNITS      | Planning permission approved.        |
| 55830   | 104870   | 493850  | WESTERGATE STREET SW | Site being justified in these plots. |
| 91406   | 104370   | 495650  | BARNHAM STATION      | Site already exists.                 |
| 91962   | 107131   | 494614  | VODAFONE FONTWELL    | Site already exists.                 |
| 94734   | 108000   | 492700  | EARTHAM QUARRY       | Site already exists.                 |

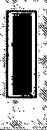
**2G COVERAGE**

T-Mobile Plot Ref: 51002

Cell 55830

Coverage from the proposed cell  
55830 WESTERGATE STREET  
SW in isolation.

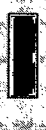
**LEGEND**



Urban and Commercial level of coverage.



Suburban and Residential level of coverage.



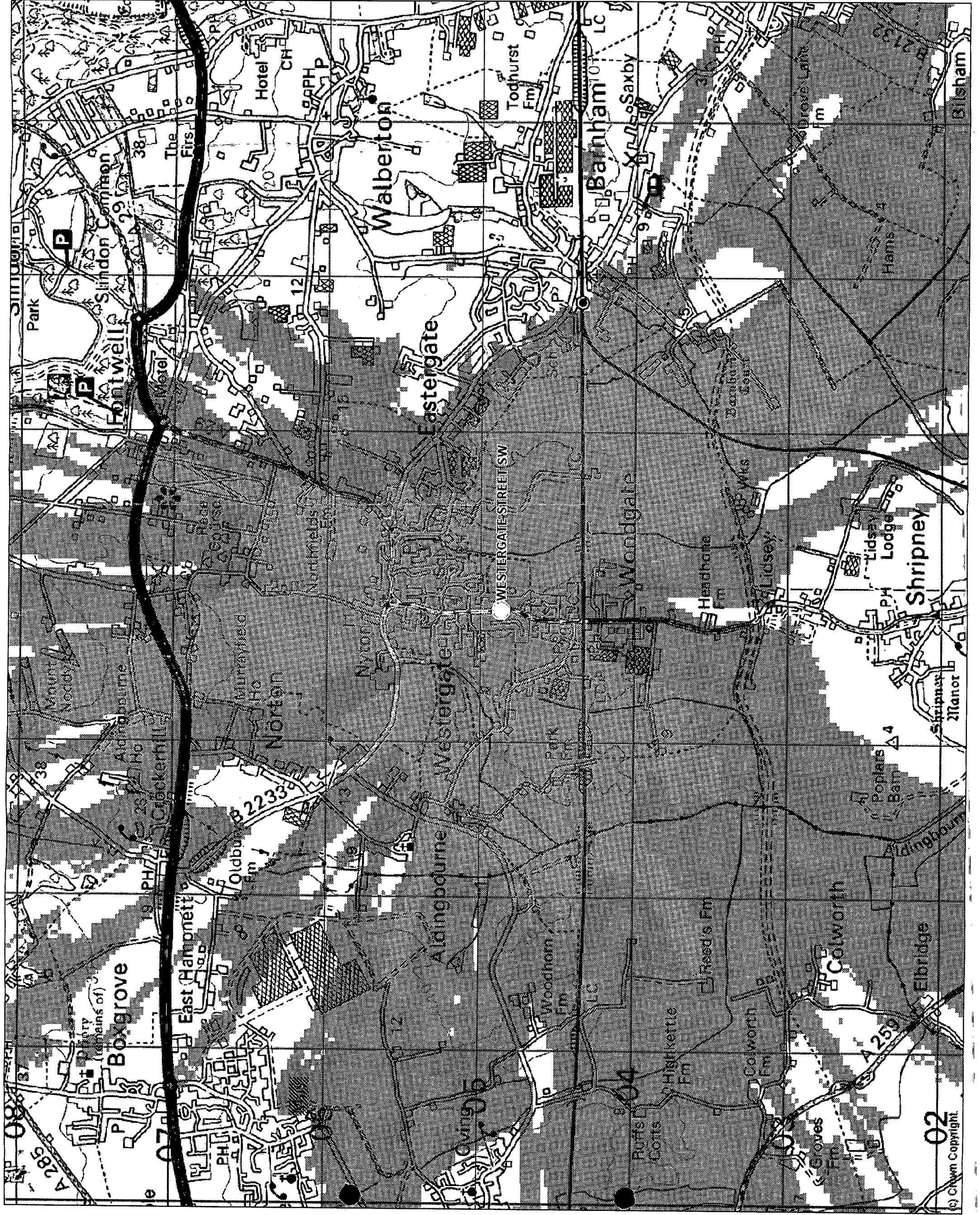
In-Vehicle coverage



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



Nominal sites or planned sites where planning permission has not yet been submitted.



## 2G COVERAGE

T-Mobile Plot Ref: 50999

Cell 55830

Coverage from existing and planned sites in the area excluding the proposed cell 55830 WESTERGATE STREET

### LEGEND



Urban and Commercial level of coverage.



Suburban and Residential level of coverage.



In-Vehicle coverage



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## 2G COVERAGE

T-Mobile Plot Ref: 51003

Cell 55830

Coverage from existing and planned sites in the area including the proposed cell 55830 WESTERGATE STREET SW.

### 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.



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