

**SUPPLEMENTARY INFORMATION**

**1. Site details**

Site Name	Land at Tittenhurst Park	Site Address	Land southwest of Tittenhurst Park, London Road, Ascot, SL5 0PP
NGR	E: 494966 N: 168167		
Site Ref Number	95980	Site Type	Macro

**2. Pre-Application Check list**

**Site selection**

Was the mast register of the authority <sup>2</sup> responsible for planning used to check for suitable sites by the operator or the authority?	<b>Yes</b>	No
Was the industry site database checked for suitable sites by the operator?	<b>Yes</b>	No

**Annual roll out consultation with the authority<sup>2</sup> responsible for planning**

Date of last annual rollout information/ submission	<b>N/A</b>	
Name of contact	<b>N/A</b>	
Summary of outcome/Main issues raised	<b>N/A</b>	

**Pre-application consultation with the authority<sup>2</sup> responsible for planning**

Date of written offer of pre-application consultation	13 <sup>th</sup> May 2021	
Was there pre-application contact	<b>Yes</b>	No
Date of pre-application contact	15 <sup>th</sup> July 2021	
Name of contact	Sian Saadeh	

*“As the site lies in the Green Belt and does not meet any of the exceptions set out in the NPPF it would be inappropriate development and you would need to demonstrate Very Special Circumstances in order for planning permission to be granted. From the supporting information submitted so far the only justification put forward relates to discounting other sites. A more detailed and robust case for VSC would need to be set out alongside any planning application which officers can consider.”*

Applicant Response – Please refer to the Design Access and Supporting Statement regarding the Greenbelt.

*“One of the discounted sites appears to be in close proximity on Tittenhurst Park and I am unclear as to the reasoning why this has been discounted regarding the design. It would be helpful to have more information about this location and how it would relate to the proposed scheme.”*

Applicant Response – Given the height/bulk of the existing O2/CTIL telecoms infrastructure, a much larger and wider lattice-style structure would be required to accommodate both O2/CTIL's existing equipment and, EE's required height and equipment. Therefore, it was considered that the visual impact of a bulky lattice-style structure would be more visually sensitive than that of another slimline greenfield column and headframe as proposed. Please see the photo below showing the potential tower required to accommodate both operators:-



*“The impact on local character, landscape and heritage assets will be a key consideration. I note the intention to submit an LVIA but in the absence of that information we are unable to give any detailed advice on the likely acceptability of the scheme. There are some comments regarding the precedent set by the existing mast and the screening of the trees but given the proposed height of the mast I would not consider that the existing mast justifies this nor that surrounding trees would offer substantial screening. Based on information seen to date I would be concerned at the visual impact of the mast in this location.”*

Applicant Response – Given the site is located within a Greenbelt, a Photo Montage Report has been included from surrounding viewpoints. The existing mast sets the precedent that telecoms infrastructure is generally acceptable at this location in comparison to other sensitive locations in this area. Regarding the mature trees in this area, as can be seen from the Panoramic Survey Report enclosed in this application, the trees measure between 10m-30m which means there is sufficient screening for long range views when taking into account other natural vertical elements within the landscape. As demonstrated within the enclosed Photo Montage Report, visuals from public vantage points are mitigated as far as possible and the proposal is screened by trees from these viewpoints. Therefore, the visual impact from long range views is expected to be minimal on this area even given the height of 30m proposed.

*“Given the location of the proposal we would also need to see supporting documents which demonstrate there would be no harm to ecology or trees either during construction nor from siting.”*

Applicant Response – Please note there has been no concern raised for the ecology/trees for this proposal as we are out with the Root Protection Area (RPA)'s and there are no immediate concerns for the local wildlife as this has been assessed at the design survey. Therefore, these reports are **not** required in this instance.

## Ten Commitments Consultation

Rating of Site under Traffic Light Model	<b>Amber</b>
<p>Outline Consultation carried out:</p> <p>A Traffic Light Rating (TLR) was undertaken in order to compose a consultation plan. The site was rated amber and therefore, further pre-application consultation was undertaken with the local councillors for Sunningdale and Cheapside and, Sunningdale Parish Council.</p> <p><b>Local councillors for Sunningdale and Cheapside - Councillor Christine Bateson and Councillor Sayonara Luxton</b>  <a href="mailto:cllr.bateson@rbwm.gov.uk">cllr.bateson@rbwm.gov.uk</a> and <a href="mailto:cllr.luxton@rbwm.gov.uk">cllr.luxton@rbwm.gov.uk</a>            No comments were received from the local councillors prior to planning application submission.</p> <p><b>Sunningdale Parish Council</b>  <a href="mailto:clerk@sunningdaleparish.org.uk">clerk@sunningdaleparish.org.uk</a> and <a href="mailto:info@sunningdaleparish.org.uk">info@sunningdaleparish.org.uk</a>            No comments were received from the parish council prior to planning application submission.</p>	

## School/College

No schools/colleges are within 250m of the proposed site location.

## Civil Aviation Authority/Secretary of State for Defence/Aerodrome Operator consultation

N/A

## 3.0 Proposed Development

The proposed site
Please refer to Design, Access and Supporting Statement.
In acknowledgement of the site location, a 'column' design is being proposed in order to assimilate into the landscape more effectively.

A map extract is enclosed with this application showing the site location.

Type of Structure (e.g. tower, mast, etc.):	30-metre-high ground based Type A column
Overall Height	30m
Materials (as applicable)	
Type of material and external colour	Steel and Galvanised
Equipment housing – type of material and external colour	Steel/aluminium and fir green (RAL 6009)

### Reasons for choice of design

The design has been chosen as it meets both the technical requirement to provide the necessary service in terms of height and the column design is considered to have the least visual impact in its rural setting.

From the outset, when it became apparent that the location proposed is the optimum in terms of coverage, EE worked to find a design which would minimise visual impact on the surrounding area, blending in this apparatus with its immediate surroundings. As such, a 30m high mast is sufficient to

provide the coverage required.

#### 4.0 Technical information

ICNIRP Declaration attached - **Yes**

ICNIRP public compliance is determined by mathematical calculation and implemented by careful location of antennas, access restrictions and/or barriers and signage as necessary. Members of the public cannot unknowingly enter areas close to the antennas where exposure may exceed the relevant guidelines.

Frequency:

All EE Ltd 3G sites operate both the GSM1800 system (transmitting in the frequency range of **1846.5MHz to 1876.5MHz**) and the UMTS system (transmitting in the frequency range of **1904.9MHz to 1909.9MHz** and **2159.7MHz to 2169.7MHz**).

Modulation characteristics<sup>3</sup>

The modulation method employed in GSM1800 is **GMSK** (Gaussian Minimum Shift Keying) which is a form of **Phase Modulation**.

The modulation method employed in UMTS is **QPSK** (Quad Phase Shift Keying) which is another form of **Phase Modulation**.

Power output (expressed in EIRP in dBW per carrier):

In order to minimise interference within its own network and with other radio networks, EE Ltd operates its network in such a way that radio frequency power outputs are kept to the lowest levels commensurate with effective service provision.

As part of the EE Ltd network, the radio base station that is the subject of this application will be configured to operate in this way.

EEs' licence limits the allowed radiated power to an effective isotropic radiating power (EiRP) of +32dBW per carrier for both GSM1800 and UMTS

For a **Microcell** the typical EiRP would be between approximately +16.5dBW per carrier and +26dBW per carrier for GSM1800. For UMTS a typical EiRP would be +20dBW per carrier.

Height of antenna (m above ground level)

30m

<sup>3</sup> The modulation method employed in GSM is GMSK (Gaussian Minimum Shift Keying) which is a form of Phase Modulation

#### 5.0 Technical Justification

The proposal has been sited and designed to provide and improve coverage/capacity to the area following the removal of the existing site to make way for residential development.

There are no available existing sites, buildings or rooftops in this area that could be utilised to achieve this replication of coverage required as illustrated in the Alternative Site Assessment. The only exception would be using the existing O2/CTIL site by upgrading this to accommodate both operators with a bulky 30m lattice style tower, which is considered to be more visually intrusive than the proposed slimline column design.

The proposed site was identified as the optimum location in both planning and technical terms.

### **GSM Coverage**

A mobile phone transmitter is designed to cover a specific area and links its coverage to the next site in the network, creating a patchwork of overlapping coverage 'cells' across the county. So, if a person is on the move, the network will transfer their calls from one site to the next. However, in certain areas there will be gaps between these cells, resulting in a loss of coverage. This can be for a variety of reasons, the most common being topography or buildings which block the path of the signal. Our network rollout programme is designed to identify and address these gaps within our coverage and ensure that people can use their phones whenever and wherever they are.

The distances between transmitter sites will depend on many factors, including the geography of the area, the number of buildings, the number of people living in the area and the growing demand for mobile services. As a result, the distance between sites can range from less than 1 kilometre in large urban areas to 8 kilometres in rural areas.

There is currently an inadequate provision of EE service in this area due to the decommissioning and removal of the existing site. Therefore, a new telecommunications base station to provide and improve coverage/capacity to the area is required.

As such, in order to maintain and provide improved coverage to customers, including the Emergency Services, this application is submitted in order to achieve this.

### **3G/4G/5G Rollout**

Data traffic is increasing and is forecast to continue to grow, as technology is developed to facilitate this. Services such as direct access to the Internet from a handset, downloading files from the office to a mobile laptop computer and videophones are now offered and expected by subscribers. These data services are commonly known as third generation or 3G services, fourth generation or 4G services and fifth generation or 5G services. All mobile telecoms operators have agreed with the govt to offer 90% geographic coverage by the end of 2017. This site forms part of that wider policy requirement.

These services are provided using a combination of UMTS and new generation GSM equipment. UMTS will provide very fast data rates, however for the network to work effectively we also need to provide an "umbrella" GSM network which is also capable of providing high speed data albeit at slower rates than UMTS. In addition, EE are responsible for the rollout of the new Emergency Services Network and the obligation is to provide the latest 5G services for data transfer, video footage and communications throughout the country. Such services can only be provided with an effective rollout of upgraded and new telecoms base stations and this site forms an integral aspect within the wider network provision.

**The installation has been sited and designed to subsequently improve coverage to Sunningdale and surrounding areas due to the existing site being decommissioned and removed and, will provide improved essential services to local residents, businesses and the Emergency Services.**

## **6.0 Site selection process – alternative sites considered and not chosen**

Alternative sites were investigated when searching for a replacement location and a full list and map of these sites can be found in the Design, Access and Supporting Statement that accompanies the application.

## Contact Details

Name	Kieran Parker	Telephone	[REDACTED]
Operator	EE		
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Signed	[REDACTED]	Date	17/08/2021