SITE SPECIFIC SUPPLEMENTARY INFORMATION

1. Site Details

Site Name:	Laithes Lane SW	Site Address:	Site on a grass verge at the junction of Laithes Lane and Wingfield Road, Athersley, Barnsley, S71 3ED
NGR:	435094E 409472N		
Site Ref Number:	14599	Site Type:[1]	Macro/ Streetworks

2. Pre Application Check List

Site Selection

Was an LPA mast register used to check for suitable sites by the operator or the LPA?		No
If no explain why: On site inspection undertaken		
Was the industry site database checked for suitable sites by the operator:	Yes	
If no explain why:		

Annual roll out consultation with LPA

Date of last annual rollout information/submission:	2009
Name of Contact:	Head of Planning
Summary of outcome/Main issues raised:	

Pre-application consultation with LPA

Date of written offer of pre-application consultation:	14.05.10	
Was there pre-application contact:	Yes	
Date of pre-application contact:	18.05.10	
Name of contact:	Mr Steven Kirkham	

[1] Macro or Micro

2010 Cornerstone

Summary of outcome/Main issues raised: An e-mail response was received from Mr S Kirkham on 18 May 2010 which stated: "I can confirm that I have no observations/comments to make on the proposed works to upgrade the existing telecommunications base station at Laithes Lane/Mansfield Road."

Ten Commitments Consultation

Rating of Site under Traffic Light Model:		Amber	
Outline Consultation carried out: Consultation letters providing details of the proposal and inviting comments were forwarded to the local Ward Councillors for St Helens Ward and the occupiers of 6 residential properties (109-119 Laithes Lane).			
Summary of outcome/Main issues raised: No responses have been received.			

School/College

Location of site in relation to school/college: There are no schools located in the vicinity of the site
Outline of consultation carried out with school/college: N/A
Summary of outcome/Main issues raised: N/A

Civil Aviation Authority/Secretary of State for Defence/Aerodrome Operator consultation (only required for an application for prior approval)

Will the structure be within 3km of an aerodrome or airfield?		No
Has the Civil Aviation Authority/Secretary of State for Defence/Aerodrome Operator been notified?		No
Details of response:		

Developer's Notice

Copy of Developer's Notice enclosed?		Yes	
Date served:	28.05.10		

3. Proposed Development

The proposed site:
Site on a grass verge at the junction of Laithes Lane and Wingfield Road, Athersley, Barnsley, S71 3ED.

Enclose map showing the cell centre and adjoining cells:
This will be included with the coverage plots.

Type of Structure:	
Description: The proposed upgrade comprises of the following: - Removal of existing 10m high telecommunications mast and to replace it with an 11.8m high installation that will accommodate both Vodafone and O2 antennas. - Provision of 1 no. small scale equipment cabinet to house O2's ancillary radio equipment. - Ancillary development.	
Overall Height:	11.8 Metres
Height of existing building N/A	Metres
Equipment Housing: See enclosed drawings	
Length:	Metres
Width:	Metres
Height:	Metres
Materials	
Tower/mast etc – type of material and external colour:	Galvanised steel
Equipment housing – type of material and external colour:	Galvanised steel - green

Reasons for choice of design:
The design of the installation will facilitate mast sharing by two telecommunications operators and preclude the need for an additional mast in the locality. The antennas of both Vodafone

and O2 will be sited at the required elevation to meet their technical requirements.

4. Technical Information

ICNIRP Declaration attached 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. When determining compliance the emissions from all mobile phone network operators on the site are taken into account.	Yes	

Frequency:	1944 – 2149 MHz
Modulation characteristics[2]	QPSK
Power output (expressed in EIRP in dBW per carrier) In order to minimise interference within its own network and with other radio networks, Vodafone operates its network in such a way the radio frequency power outputs are kept to the lowest levels commensurate with effective service provision As part of Vodafone's network, the radio base station that is the subject of this application will be configured to operate in this way.	41.5 dBm
Height of antenna (m above ground level)	10.3m to underside

5. Technical Justification

Enclose predictive coverage plots.

Reason(s) why site required e.g. coverage, upgrade, capacity (map attached if required):
The proposed installation is required to provide 3G coverage for O2 to the Laithes Lane area of Athersley. The technical requirement will be shown on coverage plots that will be forwarded to your Authority in the near future. Further detail regarding the general operation of the network can be found in the accompanying document entitled 'General Background Information for Telecommunications Development'. This information is provided to assist the local planning authority in

[2] The modulation method employed in GSM 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

understanding any technical constraints on the location of the proposed development.

6. Site Selection Process – alternative sites considered and not chosen

Site[3]	Site Name and address	NGR	Reason for not choosing[4]
ETS / GF	Existing Vodafone telecommunications installation on a grass verge at the junction of Laithes Lane and Wingfield Road, Athersley, Barnsley, S71 3ED		There is an existing Vodafone 10m high streetworks installation at this site. The site is suitable to accommodate both Vodafone and O2 and as such a mast share has been identified as the only suitable solution in the cell area.
ETS	Possible mast share/site share with existing telecommunications installation, Junction of Laithes Lane and Wakefield Road, Athersley, Barnsley		This installation is an existing O2 structure and will represent the adjacent installation in the O2 network. The coverage provided by the application proposal will link with that provided by this installation to provide strong and consistent 3G coverage over a wide area of Athersley.
GF	Grass verge to east of existing Vodafone telecommunications installation Laithes Lane, Athersley, Barnsley		The option of siting an additional telecommunications pole adjacent to the existing structure was discounted in favour of the application proposal which will minimise the proliferation of telecommunications sites.
RT/GF	The Wellington Public House, Lindhurst Road, Athersley, Barnsley		The possibility of siting a rooftop facility at this location was discounted due to the pitched roof design of the building, the presence of living

[3] ETS – Existing Telecomm site, ES – Existing Structure, RT – Roof Top, GF – Greenfield
[4] SP – Site Provider, RD – Redevelopment Not Possible, T – Technical Difficulties, P – Planning, O - Other

			accommodation to the first floor and the presence of mature trees that would act to block signal propagation. A free standing mast at this location represents an inferior solution in environmental terms (when compared to the application proposal) and would result in the proliferation of telecommunications installation in the area. This option was therefore discounted.
GF	Recreation ground/open space, off Laithes Lane, Athersley, Barnsley		A free standing mast at this location would appear as a stand alone skyline feature and would result in the proliferation of telecommunications sites in the locality. This option was therefore discounted.

If no alternative site options have been investigated, please explain why:

N/A

Additional relevant information:

The Code of Best Practice and PPG8 stresses the Government's aim to facilitate the growth of new and existing telecommunications systems while keeping the environmental impact to a minimum.

PPG8 Paragraph 19 states:
In order to limit visual intrusion, the Government attaches considerable importance to keeping the numbers of radio and telecommunications masts, and the sites for such installations, to the minimum consistent with the efficient operation of the network.

In relation to the new 3rd Generation service requirements, PPG8, Appendix – Supporting Guidance, Paragraph 28 States;

'...They [The Network Operators] are expected to use existing structures where possible (including those owned by other operators and radio site management companies) though they will likely also need to develop a substantial number of new site.'

Paragraph 123 of the Code of Best Practice states **"The Governments General policy on telecommunications development is to facilitate the growth of efficient and effective**

telecommunications systems whilst keeping the environmental impact of such development to a minimum. The siting and design of telecommunications equipment, if undertaken with care and sensitivity, will be vital in achieving this policy aim. Good siting and design should not only be respected in environmentally sensitive areas but also be applied to all.

Please refer to the enclosed supporting statement for further information.

Contact Details

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Signed:		Date:	28.05.10
Position:	Planning Partner	Company:	Higham & Co
		(on behalf of above operator)	Vodafone Limited/ Telefonica O2 Limited