11.4 Proposed Telecommunication Facility - Basalt Court



Our Ref: 88997 Skennars Head

April 21, 2011

John Truman I Group Manager Civil Services Group Ballina Shire Council PO Box 450 BALLINA NSW 2478

Sent Via: Ernail / Registered Post

Dear Mr. Truman.



Summary of Site Selection Process for B8997 Skennars Head

This report has been produced to summarise and respond to the key issues affecting the site selection process undertaken by Optus in response to your request dated 8th April 2011 for the above mentioned site.

1) A summary of the site selection process undertaken for this locality

Optus and Daly International have undertaken a wide ranging site selection process throughout the Skennars /Lennox Head area which involved the following activities;

Identification of areas with poor service and / or performance

Optus use a number of methods to Identify Ihose parts in the 3G network that require improved coverage, capacity and call performance. These methods include: physical surveys, statistical measures, computer modelling of coverage, and the evaluation of customer complaints. When an area within the Optus network is Identified as providing poor levels of service and performance, investigations are undertaken to determine the measures required to rectify these service and performance deficiencies. In this case Optus has Identified the Lennox Head area as requiring 3G mobile coverage, as there are significant deficiencies in existing coverage.

Remedial measures

Optus Radlo Frequency (RF) engineers assess deficiencies in coverage, and devise measures necessary to address it. The first stage of the process is to examine whether the deficiency may be improved through optimisation of the existing network infrastructure (that is, by modifying existing facilities surrounding Lennox Head to enhance local coverage), to avoid the requirement for deployment of additional infrastructure. In this instance, optimisation could not deliver a satisfactory outcome and deployment of a new site is necessary as a result. The initial research undertaken is then used to define the scope of the network deficiency and the performance objective of the proposed new facility.

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Site Parameters

Optus identifies an area where the requirement for a lelecommunications
facility would be highest (a "search ring") and undertakes a preliminary
investigation in conjunction with its planning / environmental and property
consultants, RF engineers and designer of the search ring, to identify possible
locations and options for the facility.

Additionally, in relation to site selection, key considerations typically include:

- visual amenity;
- co-location:
- the availability and suitability of land and a willing site provider;
- occupational Health and Safety;
- construction issues structural and loading feasibility;
- access for maintenance purposes, topographical constraints;
- legislative/policy constraints;
- environmental impacts; and
- cost implications.

Alternative Sites Considered

A total of eight (8) condidate options were examined (A to H) in-depth for their potential to accommodate the Optus proposal, taking into account co-location options as well as potential new greenfield sites. A summary of each candidate, its location, its description and suitability is provided as **Appendix 1**.

Importantly there is only one other Optus mobile facility within the locality, attached to a water reservoir approximately 1km to the north. This facility is located on terrain lower in elevation that the required targeted black spot area, and consequently unable able provide adequate Optus 3G coverage required in the search ring area.

Co location options are always investigated as preferred candidates for supporting additional infrastructure, however in the Skennars Head region no other monopoles or vertical structures are present to enable co-location options.

Provide details of your assessment of the covenant arrangements for the site proposed adjacent to North Creek Road

A detailed Investigation on the covenant affecting Lot 11 on DP627149 was undertaken including legal advice on the likelihood of obtaining a lease over the site and undertaking building work. The third page of the Transfer of Easement/Covenant which incorporates Lot 11 on DP627149 provides the following comment under number 1:-

That no building or structure shall be erected on the land hereby transferred.

The transfer also states:

That no trees of the Norfolk pines variety shall be destroyed except with the consent of the Transferor first had and received in writing.

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 That the said land shall not be used for the purpose of public parking or public picnics nor shall the public be invited to use it for occupation or enjoyment

The land to which this covenant is appurtenant is Lot 12 in DP627149 being the whole of the land in CT V14907 F233

The land the subject of this covenant is Lot 11 DP627149 being the whole of the land in CT V14907 F32

it is this clause that has prevented Optus progressing further with any lease over the site. A copy of the convent is attached as **Appendix 2**.

3) Information of the EME risk assessment for the proposed location

In relation to EME and public health, all telecommunications carriers operate within the operational standards set by the Australian Communications and Media Authority (ACMA). Australian Radiation Protection and Nuclear Safety Agency (ARPANSA) and the World Health Organisation (WHO).

For all potential mobile base stations Carriers are obliged to produce an ARPANSA report which is registered on a National database. The ARPANSA report outlines the maximum predicted EME readings for that particular location.

In the case of Skennars Head the maximum EME reading is 1.095% of the maximum allowable limit (maximum allowable limit is 100%) and occurs at a distance of 72.038m from the mobile base station. In addition to the ARPANSA report Optus also undertook additional EME predictions at different locations for affected residents. The previously provided EME report has been attached as **Appendix 3** to this report.

Other EME considerations included:

- The potential impact on maintenance activities has been raised by other Councils to Optus in the past. In response, Optus has designed the facility so that cabling and other Optus equipment does not intrude over the roof of the water reservoir or climbing apparatus. This is achievable and Optus has presented examples of other sites where this approach has been implemented.
- The Optus equipment will not cause an RF hazard over the water reservoir roof
 as the panel antennas used are directional and hence the signal is emanating
 from the front of the panel antenna outwards (not backwards over the roof of
 the water reservoir).
- The proposed antennas will not create any RF hazard in any location adjacent to the vertical wall of the reservoir as the proposed panels will be mounted 3 metres above the highest point of attachment to the reservoir.

in its national roll-out, Optus deploys hundreds of sites Australia wide. The two key issues that are often raised by the community are related to public health and visual amenity. The Water Reservoir at Skennars Head represents a topographical high point in the terrain, and hence provides the most superior coverage with minimal visual impact. Achieving a balance between visual impact and the obvious benefits of

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mobile and wireless broadband to the community as a whole is the accepted balancing act that has been established by case law history throughout Australia.

It should be considered that other potential locations may require a substantial monopole or two mobile base stations, which represents increased visual impact, to achieve the same level of coverage the low impact solution provides,

4) Details confirming your claims in respect of meeting the low impact determination

The proposed facility is deemed to meet the requirements of the *Telecommunications* (*Low-Impact Facilities*) *Determination 1997*. The reasons for this conclusion are based on the classification of the components of the facility in relation to the determination. Notification of this assessment was sent to Council on the 21st of July 2010. A copy of this correspondence is attached as **Appendix 4**.

5) The service demands you are seeking to respond to via the proposal.

The service demands for wireless mobile coverage for the Lennox/Skennars Head region has been growing in tune with the demands Australia wide. As previously mentioned Optus has identified the regions as requiring upgraded coverage and capacity in its network specifically for the Skennars Head area. Figure 1 below indicates the area that Optus are attempting to introduce 3G wireless and mobile broadband coverage. Currently there is extremely limited coverage within this encircled area.

As mentioned previously there is an Optus facility located on a water reservoir 1km north as indicated by yellow symbol on figure 1. The current facility located on an existing water reservoir is located on lower elevation than that of the targets black spot area enclosed by the green circle and cannot provide 3G coverage to Skennars Head.

The search ring (green circle) encloses an area comprising of predominantly residential uses. For the technology to effectively service this area the antenna are required to be within a certain distance, by locating the antenna a further distance away a loss in signal strength will be visible.

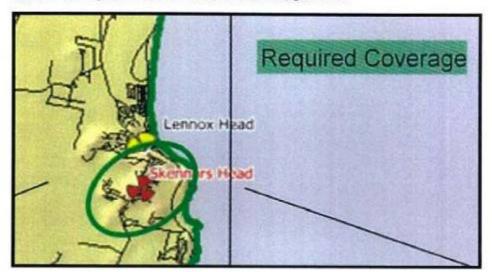
As mentioned in previous correspondence co-locating on a utility such as a water reservoir is in keeping with best practice as cutlined by the *Telecommunications Code* of *Practice 1997 Part 3 section 3.13 Co-location*. It should be noted that section 3.13 also includes public utilities as structures, not just other carriers infrastructure, to be included for co-location consideration.

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Figure 1. Area targeted for Optus 3G services indicated by green circle



Source: Optus Radiofrequency department

We trust this summary of specific elements of the Skennars Head proposal is sufficient for your requirements at this stage. If you have any questions on the information provided please don't hesitate to contact Optus representative Dauglas Troope or the undersigned.

Yours faithfully,

Andrew Kardash Senior Tawn Planner

Daly International Phone: 07 3832 5333

E-mail: akardash@datyintemational.com.au

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Appendix 1 - Candidate Selection

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CANDIDATE	ADDRESS & LOT NUMBER	DEVELOPMENT TYPE	DESCRIPTION	SUITABILITY
∢	2A Basalt Court Lennox Head LOT 47 DP240657	Ballina Council Water Reservoir	Low impact on tank rooftop, poled up maximum height above the roof, mounted to the side of the structure.	The site is considered to be the most suitable candidate, able to prove a high level of coverage at a minimal visual impact utilising existing infrastructure. The water reservoir also represents the birth point in the terrain enclosed.
	OVORTH CREEK ROAD	GASALT COURT	SANDSTONE CRESCENT	within the black spot area.

	ADDRESS & LOT NUMBER	DEVELOPMENT TYPE	DESCRIPTION	SUITABILITY
6 0	Lot 11 North. Creek Rd LENNOX HEAD NSW 2478 LOT 11 DP627149	30т топараlе	Greenfield on Council land, A possible fake tree to compliment surroundings was floated as an option,	The candidate was considered to be un achievable due to a covenant issues affecting all built structures over the land and prohibiting the erecting of any facility. The title deed reveals a Covenant
The Real Property of the Park			SANDSTONE CALIFIC TO A STAND S	affecting the part shown so burdened in the Title Diagram (M624992) & second Covenant (1906057).

CANDIDATE	ADDRESS & LOT NUMBER	DEVELOPMENT TYPE	DESCRIPTION	SUITABILITY
υ	Lot 11 North Creek Rd LENNOX HEAD NSW 2478 LOT 11 DP627149	Light pole swap-out	Like for like swap-out of power pole with aircraft warning lights.	The candidate was considered to be un achievable due to a covenant issues affecting all built structures over the land and prohibiting the erecting of any facility. The title deed reveals a Covenant
The state of the s			CANDS COURT KINGS COURT	affecting the part shown so burdened in the Title Diagram (M624992) & second Covenant (7906057).

CANDIDATE	ADDRESS & LOT NUMBER	DEVELOPMENT TYPE	DESCRIPTION	SUITABILITY
۵	2A Basall Court Lennox Head LOT 47 DP240657	Ballina Council Water Reservoir	Greenfield site adjacent to the water reservoir and still within the compound	The candidate was deemed unsultable when compared to the low- impact option located on the water tower infrastructure.
	NORTH CREEK ROAD	MOSTH COUNT	CRANITE STREET	solution results in less visual impact

CANDIDATE	ADDRESS & LOT NUMBER	DEVELOPMENT TYPE	DESCRIPTION	SUITABILITY
ш	Lat 1 on DP 831017	50m Lattice Tower	Sewerage Treatment Pant	The site was deemed unsuitable given the ground elevation is between 10 and 15 metres resulting in the need for a structure of at least 50m. Due to the low elevation of the terrain Optus
			NORTH CREEK ROAD	would require a second site to provide the level of coverage provided by the Basatt Crt proposal. In addition this area is located within/near the Obstacle Limitation Surface of Ballina Airport were it would be unlikely that a 50m structure would be viewed favourably by CASA.

CANDIDATE	ADDRESS & LOT NUMBER	DEVELOPMENT TYPE	DESCRIPTION	SUITABILITY
u.	Various	Low Impact/ collocation	A low impact opportunity was investigated within the Skennars Head township.	No low impact opportunities (other than the water reservoir) within the Skennars Head residential area could be identified. The township has limited opportunity for tenure due to future
	Man Dacental	SONALON SONALON SAN SAN SAN SAN SAN SAN SAN SAN SAN SA	SETIMON STATES	subdivision expectations. This area is also close to the scenic foreshore. Ground Elevation Varies between 2m approximately 1km from the foreshore to 33m adjacent to the coast road, Optus would require a second site to provide the level of coverage provided by the Basalt Crt proposal.

DESCRIPTION SUITABILITY	A partion of a large parcel of land, Limited apportunity for tenure and, currently for sale towards the Lennox. The area is also clase to the scenic forestrore and will not provide the required coverage for the residential area to the west of North Creek Road. Ground Elevation Varies between	road Optus would require a least 30m pole to provide effective coverage. A second site would be required to provide the level of coverage provided by the Basalt Crt proposal.
DEVELOPMENT TYPE	30m Monopole	Caro and the second
ADDRESS & LOT NUMBER	42 BLUE SEAS PARADE LENNOX HEAD 2478 Lot: 2 Plon Number: 587685	COVER BOLDIA
CANDIDATE	ø	OVON VIND HINON

SUITABILITY	unity for tenure was	
	No opportunity available.	
DESCRIPTION	Privately owned a large parcel of land providing good elevation and coverage.	DANO MINUV
DEVELOPMENT TYPE	30m monopole	
ADDRESS & LOT NUMBER	140 NORTH CREEK ROAD LENNOX HEAD 2478 Lot: 233 Pian Number:	
CANDIDATE	# 2 E 2 E 2 E E E E E E E E E E E E E E	

УТЛІК	ad apportunity for	
SUITABIUTY	The site had limited apportunity for tenure under the covenant for public use.	
DESCRIPTION	Council owned Parkland bordered by King Ct Castle Dr. And North creek Rd.	CHASCOLK!
DEVELOPMENT TYPE	25m manapale	CONTRIBUTE WAY
ADDRESS & LOT NUMBER	CASTLE DRIVE LENNOX HEAD 2478 Lot: 29 Plan Number: 261848	
CANDIDATE	±	

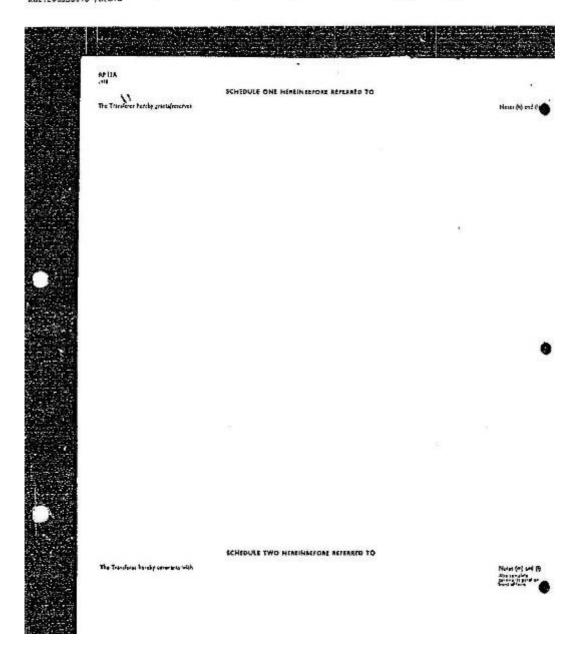


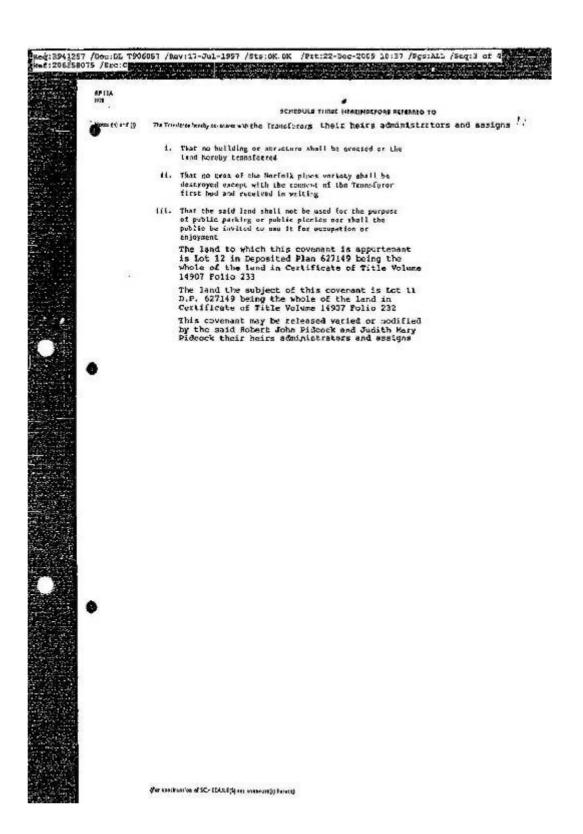
Appendix 2 - Lot 11 North Creek Road Covenant

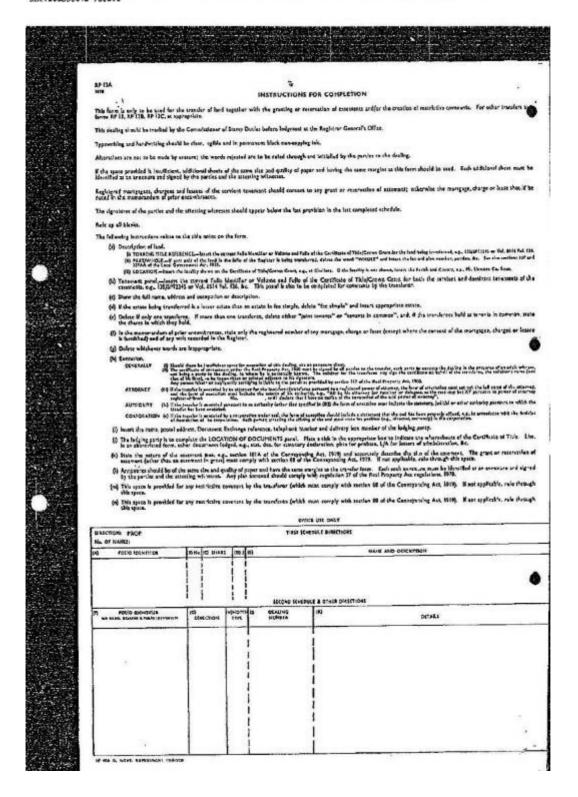
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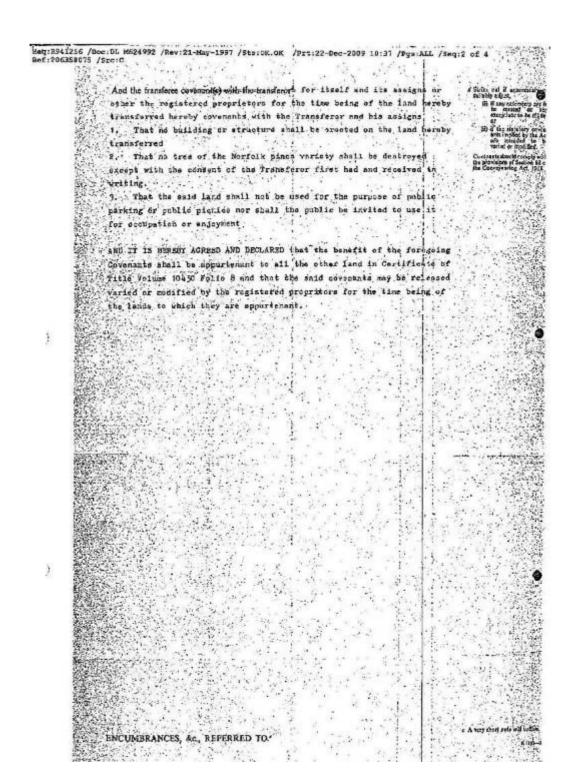
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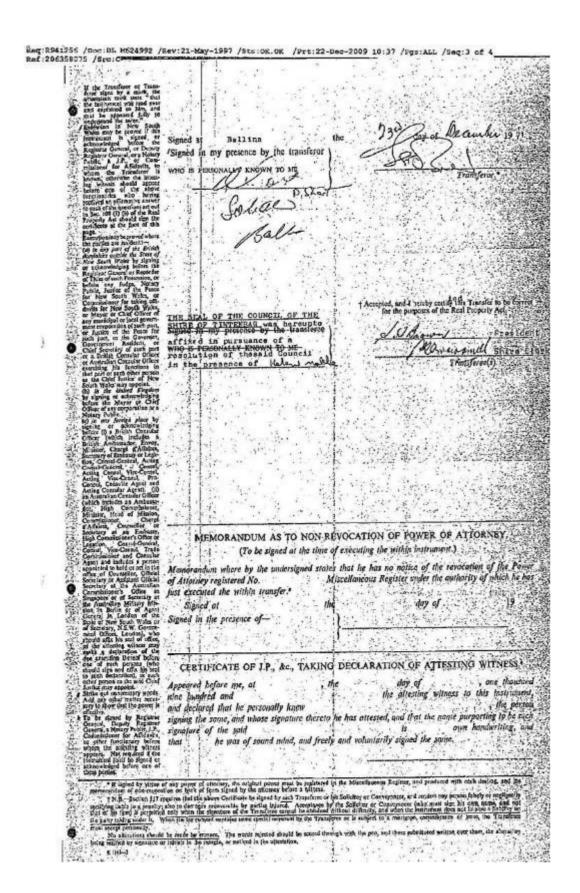
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Appendix 3 - EME Report

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Summary of Estimated RF EME Levels around the Proposed Mobile Phone Base Station at 2A Basalt Ct, Lennox Head, NSW2478, Ballina WR, NSW2478

Introduction:

Date 11/10/2010

NSA Site No (2478012)

This report summarises the estimated maximum cumulative radiofrequency (RF) electromagnetic energy (EME) levels at ground level emitted from the proposed Mobile Phone Base Station antennas at 2A Basalt Ct, Lennox Head, NSW2478 Ballina WR, NSW2478. Maximum EME levels are estimated in 360° circular bands out to 500m from the base station. The procedures for making the estimates have been developed by the Australian Radiation Protection And Nuclear Safety Agency (ARPANSA)*. These are documented in the ARPANSA Technical Report; "Radio Frequency EME Exposure Levels - Prediction Methodologies" which is available at http://www.arpansa.gov.au

EME Health Standard

ARPANSA, an Australian Government agency in the Health and Ageing portfolio has established a Radiation Protection Standard* specifying limits for continuous exposure of the general public to RF transmissions at frequencies used by mobile phone base stations. Further information can be gained from the ARPANSA web site.

The Australian Communications and Media Authority (ACMA)^a mandates exposure limits for continuous exposure of the general public to RF EME from mobile phone base stations. Further information can be found at the ACMA website http://emr.acma.gov.au

Proposed Site Radio Systems

Proposed Optus GSM900	Proposed Optus WCDMA900	Proposed Optus WCDMA2100	
TORREST THE	WCDMA900	WCDMA2100	

Table of Predicted EME Levels - Proposed

Distance from the antennas at 2A Basalt Ct, Lennox Head, NSW2478 in 360° circular bands	Maximum Cumulative EME Level – All carriers at this site (% of ARPANSA exposure limits ²) Public exposure limit = 100%
0m to 50m	0.34%
50m to 100m	1.095%
100m to 200m	0.75%
200m to 300m	0.19%
300m to 400m	0.088%
400m to 500m	0.05%
Maximum EME level	
72.038 m, from the antennas at 2A Basalt Ct, Lennox Head, NSW2478	1.095%

Table: Estimation for the maximum level of RF EME at 1.5m above the ground from the proposed antennas assuming level ground. The estimated levels have been calculated on the maximum mobile phone call capacity anticipated for this site. This estimation does not include possible radio signal attenuation due to buildings and the general environment. The actual EME levels will generally be significantly less than predicted due to poth losses and the base station automatically minimising transmitter power to only serve established phone calls. Where applicable, particular locations of interest in the area surrounding the base station, including topographical variations, are assessed in Appendix A." Other areas of Interest* table on the last page.

Summary - Proposed Radio Systems

RF EME levels have been estimated from the proposed antennas at 2A Basalt Ct, Lennox Hoad, NSW2478 Ballina WR, NSW2478. The maximum cumulative EME level at 1.5 m above ground level is estimated to be 1.095 % of the ARPANSA public exposure limits.

Environmental EME report

(2007 ARPANSA Format)

Page 1 of 3

Existing Site Radio Systems

There are currently no existing radio systems for this site.

- Reference Notes:

 1. The Australian Radiation Protection and Nuclear Safety Agency (ARPANSA) is a Federal Government agency incorporated under the Health and Ageing portfolio. ARPANSA is charged with responsibility for protecting the health and safety of people, and the environment, from the harmful effects of radiation (ionising and non-ionising).
 - Australian Radiation Protection and Nuclear Safety Agency (ARPANSA), 2002, 'Radiation Protection Standard: Maximum Exposure Levels to Radiafrequency Fields 3 kHz to 300 GHz, Radiation Protection Series Publication No. 3, ARPANSA, Yallamble Australia. [Printed version: ISBN 0-642-79400-6 ISSN 1445-9760]
 [Web version: ISBN 0-642-79402-2 ISSN 1445-9760]
 - The Australian Communications and Media Authority (ACMA) is responsible for the regulation of broadcasting, radiocommunications, telecommunications and online content. Information on EME is available at http://emr.acma.gov.au/
 - 4. The EME predictions in this report assume a near worst-case scenario including:
 - base station transmitters operating at maximum power (no automatic power reduction)
 simultaneous telephone calls on all channels

- an unobstructed line of sight view to the antennas.
In practice a worst-case scenario is rarely the case. There are often trees and buildings in the immediate vicinity, and cellular networks automatically adjust transmit power to suit the actual telephone traffic. The level of EME may also be affected where significant landscape features are present and predicted EME levels might not be the absolute maximum at all locations.

Further explanation of this report may be found in "Understanding the ARPANSA Environmental EME Report" and other documents on the ARPANSA web site, http://www.arpansa.gov.au

Issued by: Optus, Data reference file - Ballina WR, NSW2478 - 201010111145024

Environmental EME report

(2007 ARPANSA Format)

Page 2 of 3

Appendix A

Table of Other Areas of Interest

Additional Locations	Height / Scan relative to location ground level	Maximum Cumulative EME Level All Carriers at this site (% of ARPANSA exposure limits²) Public exposure limit = 100%
75 Sandstone Crescent	Om to 5m	0.19%
2 Basalt Ct	Om to 3m	0.054%
71 Sandstone Crescent	Om to 5m	1.18%
143 North Creek Road	Om to 3m	0.8%

Table: Estimation for the maximum EME levels at selected areas of interest over a height range relative to the specific ground level at the area of interest. This table includes any existing and proposed radio systems.

Escinación Noces / Assumblions — Otner Areas or Interes	Estimation Notes	/ Assumptions - Other	Areas of	Interest
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Variable ground topography has been included in the assessment of the "Other Areas of Interest" as per ARPANSA methodology Insert other data / notes as required

Environmental EME report

(2007 ARPANSA Format)

Page 3 of 3



Appendix 4 - ACIF 5.4

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www.dalyinternational.com



Our reference: 88997 Skennars Head

21 July 2010

Andrew Smith Town Planner Ballina Shire Council PO Box 450 BALLINA NSW 2478

Dear Sir or Madam

Notification of Proposed Telecommunications Facility Co-location on a water reservoir without Development Application 2A Basalt Court LENNOX HEAD NSW 2478

In response to calls for greater council and community involvement and more information when telecommunications facilities are installed, an *Industry Cade for the Deployment of Mobile Phone Network Infrastructure* has been introduced (commonly known as the "ACIF Code").

The Code cannot change the existing regulatory regime for telecommunications at local, State or Federal level. However, it supplements the carriers' existing obligations, particularly in relation to community consultation and the consideration of exposure to radio signals, sometimes known as electromagnetic energy (EME or EMR).

As defined in the Code, "Consultation means a process whereby Carriers seek to inform other parties about a proposed project at particular premises with the intention of giving those parties an opportunity to respond to the proposal and to have their responses considered." (P.7 ACIF C564:2004)

"Interested and Affected Parties includes persons who reside within the immediate vicinity of the facility and may have an Interest in the proposed facility." (P.9) ACIF C564:2004)

As specified in the Code (P.17), the objectives of the consultation include:

- I. Identifying and informing Interested and Affected Parties of the proposed project
- ii. providing adequate time for Interested and Affected Parties to consider and engage in meaningful dialogue on the project
- iii. maximising the level of accurate and accessible information about the project to interested and Affected Parties;
- iv. identifying and attempting to resolve potential issues early in the site planning process; and
- v. obtaining mutually acceptable outcomes on individual projects:

The Code (P.17) also states that "a consultation program may not always:

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Our reference: B8997 Skennars Head

- i. satisfy all participants; or
- ii. resolve all differences of opinion or values.

The ACIF Code consultation framework enhances meaningful dialogue with councils and local communities so that better decisions about siting mobile telecommunications intrastructure are made.

Daly International act on behalf of Optus in relation to a proposed telecommunications facility in Ballina Shire Council area. In accordance with the Code Carriers are required to notify and consult with Council in relation to certain new telecommunications installations not requiring a development/planning approval.

Specific details of the proposed installation and relevant references are attached for your information (see Attachment 'A').

In addition to providing information & details of the facility Optus has prepared a Consultation Plan, as required under Clause 5.5.2 of the Code. A copy of the Consultation Plan is attached (see Attachment 'B'). In accordance with the Code, Council has the apportunity to provide feedback in writing on the proposed Consultation plan.

Daly International has also sent correspondence (dated 17 May 2010) outlining a response to issues raised by Council staff at a meeting held at Ballina Shire Council Chambers on the 22 February 2010 in relation to this proposal. This correspondence sent on the 17 May 2010 also included a photomontage of the proposal (please see attachment F).

If written comments are not received on the consultation plan 3 August 2010 the consultation process can proceed as planned.

If Council wishes to provide feedback on the consultation plan it must do so in writing within five (5) business days from the date of this notification. Council may also seek an extension of the additional five (5) business days to provide comment on the consultation plan if requested within five (5) business days from the date of this notification.

Please advise if there are any dominant languages other than English in the municipality that Optus need to consider as part of the consultation process with the local community and the availability of Council interpreter services.

Any questions in relation to the Consultation Plan or details of the proposed facility should be directed to:

DALY INTERNATIONAL Pty Ltd., A.C.N. 054 002 461 Level 2, 24 Little Edward Street, SPRING HILL, QLD, 4000 Telephone: 07 3832 5333 Facsimile: 07 3832 5322

www.dalyinternational.com



Our reference: B8997 Skennars Head

Petra Kovacs Town Planner Daly International

Level 2 24 Little Edward Street Brisbane QLD 4000 pH: 07 3832 5333 Pkovacs@dalyinternational.com.au

Further Information

Further information on a range of issues relevant to the placement of mobile phone towers (including industry codes of practice and legislation, and a video clip on mobile phones and health) is available at http://emr.acma.gov.au or by phoning (02) 6219 5555 and asking for the EME & Telecommunications Infrastructure Section. This web portal takes you directly to the Australian Communications and Media Authority (ACMA) website. The Australian Communications and Media Authority is a government regulator of telecommunications and radiocommunications. There is a vast amount of additional information in the public domain on EME, base stations and health, care should be taken to check the validity of information to ensure it is from a recognised credible and authorative source.

Yours sincerely

Petra Kovacs Town Planner Daly International

Attachments

A.	Details of proposed telecommunications facility (F5.4.4)	Ľ	1	1		
B.	Consultation Plan (F5.5.2)	I	1	1		
C.	Plans of the proposal	ſ	1	1		
D.	Environmental EME Report (ARPANSA Format)	1	1	1		
E.	Sources of EMR Information	Į	1	J		
F.	Previous Correspondence to Ballina Shire Council dated 17 May	20	10	l	1	1

DALY INTERNATIONAL Ply Ltd, A.C.N. 054 002 461 Level 2, 24 Little Edward Street, SPRING HitL, QLD, 4000 Telephone: 07 3832 5333 Facsimile: 07 3832 5322

www.datvinternational.com

Notification to Council Section 5.4 ACIF Industry Code C564:2004 for

Deployment of Mobile Phone Network Infrastructure

Notification - Installation of a New Sile wilhout Development Application

Notification Date:	21 July 2010
Required Council Response Dale:	3 August 2010

Carrier Zoning of Ste		C	ptus
		The site is zoned 6(a) Open Space by the Ballina Local Environmental Plan 1987.	
5.4 4(a)	Sire / Proposed Location	Ballina Council Water Reserve Court, Lennox Head NSW 247	oir, Lot 4/ DP 240657, 2a Basa t '8
5.4.4(b)	Description of Proposed Installation		elevation - Attachment °C').
5.4.4(c)	Proposed Instal ation Classification	Optus regards the proposed installation as a Low-in Facility under the Telecommunications (Low-impactiacilities) Determination 1997 ("The Determination"). The reasons for this conclusion are based on the classification of the following components of the foreign to the Determination.	
		é x panel antennas	Schedule, Part 1, Item 2 – Radio Facilities Not more than 2.8m long and not pratruding from the structure by no more than 3m
		1 x 0.6m parabolic antenna	Schedule, Part 1, Item 5 – Radio Facilities No more than 1,2m in diameter and not protruding from the structure by more than 2m in total.
		Equipment Shelter	Schedule, Part 3, Item 5 - Above Cround Housing

DALY INTERNATIONAL Pty Ltd. A.C.N. 064 (02 461 Level 2, 24 Little Edward Street, SPRING HLL, GLD, 4000 Telephone: 07 3832 5333. Foodinile: 07 3832 5322

www.dot/international.com

		Associated infrastructure. Amplifiers, diplexers, triplexers, mounts, feeders, caple trays, and other associated infrastructure is necessary to facilitate the safe operation of the facilities and is authorised by Clause 6, Division 3, Schedule 3 of the Telecommunications Act 1997 and/or Clause 4 of Part 3 of the Telecommunications (Low-Impact Facilities) Determination 1997.
5.4.4(d)	EMR Compliance	The proposed installation will comply with the Australian Communications Authority regulatory arrangements with respect to electromagnetic radiation exposure levels.
5.4.4(c)	EMR Exposure Levels -ARPANSA Prediction Methodology and Report format	EMR Exposure Levels from this site have been calculated in accordance with the ARPANSA prediction methodology and report format. This report is attached (See Attachment 'D').
5.4.4(f)	References to Information on the effects of radio emissions on health	Attached for your reference is a copy of the "Sources of EMR Information" (See Attachment "E")
5.4.4(g)	Carriers Contact Details	Centact name: Douglas Troop – Optus Project Manager Phone: 07 3304 6863 Address for written correspondence: 2 Burke Street, Woolloongabba QLD 4102

DALY INTERNATIONAL Ply Ltd. A.C.N. 054 002 461 Lavel 2, 24 Little Edward Street, SPRING HILL, OLD, 4000 Telephone: 07 3832 5333 Foxermie: 07 3832 5222

www.datvinternational.com

Attachment E - SOURCES OF EMR INFORMATION

Note: Reference to these sources of information does not indicate endorsement by ACIF of the content not accuracy of the information contained in these sources.

AUSTRALIA

Sources of Information	Contact Details
Australian Radiation Protection and Nuclear Safety Agency	Lower Plenty Road Yallamole VIC 3065
radical salety rigority	Tel: 03 9433 2211
	Fax: 03 9432 1835
	E.mai: eme.comm.ttee@h.saith.gcv.au
	Internet: www.arpensa.gov.au
Australian Communications & Media Authority	Radiocommunications Standards Char Street Belconnen ACT 2617
	"el: 02 6219 5451
	Fax: 02 6219 5133
	ntemet: www.acma.gov.au
Department of Broadband, Communications & Digital Economy	Internet: http://www.docde.gov.au/communications for consumers

INTERNATIONAL

Sources of Information	Contact Details
World Health Organisation - Health	Avenue Appia 20
Communications and Public Relations	1211 Geneva 27 Switzerland
	Tel: CC11 41 22 791 2111
	Fax: 0011 41 22 791 0476
	E-mail: info@who.cn
	Internet: www.who.ch
International Commission on Non-Ionizing Radiotion Protection (CNIRP)	Internet: <u>www.incnirp.de</u>

ACIF 5.4/5.5 Skennars Head

Our ref: B8997 - Skennars Head 6 May 2011

Attention: Mr John Truman -Group Manager/ Civil Services Group

General Manager Ballina Shire Council PO Box 450 BALLINA NSW 2478

5.00	ECO CAN	RDS NED
		Y 2011
Doc No:		
Each No:		+ 40000000

Dear John,

Notice Under Clause 17 Schedule 3 of the Telecommunications Act 1997 (Cth) ("the Act") and Chapter 4 of the Telecommunications Code of Practice 1997 ("the Code")

Optus Mobile Telecommunications Facility at the Ballina Council Water Reservoir, 2A Basalt Crescent, Lennox Heads, NSW 2478 and being the land described as Lot 47 DP240657 ("the Property")

On 11 March 2011 Optus served Notice to install a low-impact facility on the Property pursuant to the Act and the Code.

On 29 March 2011 you sent a Notice of Objection ("Letter") in relation to the abovementioned matter.

In your objection Letter and at our meeting of 4 April 2011, you requested Optus to investigate co-location options.

The results of the investigation into this proposed co-location have been addressed in our written response of 21 April 2011 and have also been previously discussed with you at our meeting on 4 April 2011.

In accordance with the timeframes required under the Code for dealing with the Notice served by Optus and your Objection to Notice, the parties had until 6 May 2011 to resolve the issues by agreement.

Optus have been corresponding with you on this issue since 2009 and have made every endeavour to meet your concerns, however, is not prepared to incur further delays as the site is required in order to achieve a successful mobile network.

Optus hereby advises that it plans to engage in the activity as originally proposed in the Notice served on 11 March 2011 under clause 4.35(3) of the Code and plan to commence the activity at a date to be advised.

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SingTel Optus Pty Limited ABN 90 052 833 208 2 Burke Street, Woolloongabba QLD 4102 Australia • PO Box 1125, Coorparoo DC QLD 4151 Australia

Telephone: 61 7 3304 6600 Facsimile: 61 7 3304 6788 • optus.com.au

If you are not satisfied with our position as detailed in our correspondence of 21 April 2011, you may, within 5 business days after receiving this correspondence, ask Optus in writing to refer the objection to the Telecommunications Industry Ombudsman (TIO).

Yours faithfully

Douglas Troope

Optus Senior Project Manager

Ph: Fax:

(07) 3304-6863 (07) 3304-6840

Email: douglas.troope@optus.com.au

SingTel Optus Pty Limited ABN 90 052 833 208 2 Burke Street, Woolloongabba QLD 4102 Australia • PO Box 1125, Coorparoo DC QLD 4151 Australia Telephone: 61 7 3304 6600 Facsimile: 61 7 3304 6788 • optus.com.au



Our ref B8997 – Skennars Head 16th May 2011

Attention: Mr. John Truman

Dear John

Notice under Clause 17 Schedule 3 of the Telecommunications Act 1997 (Cth) ("the Act") and Chapter 4 of the Telecommunications Code of Practice 1997 ("the Code") Optus Mobile Telecommunications Facility at the Ballina Council Water Reservoir, 2A Basalt Crescent Lennox Heads NSW 2478 and being the land described as Lot 47 DP240657 ("the Property")

I refer to our letter dated 6th May 2011. Council have chosen not to respond to this letter within the time line specified under 4.35(3) of the code and therefore this matter has not been referred to the Telecommunications Industry Ombudsman (TIO).

As previously stated Optus have been corresponding with Council on this issue since late 2009 and have made every endeavour to meet Council and resident concerns regarding this proposal.

Optus believe these concerns have been addressed in detail on several occasions both at meetings and via written correspondence. Optus have also addressed Council requests for additional information regarding the site selection process and collocation.

Notwithstanding the concerns mentioned above, Optus intends to move to the next stage of construction according to our Schedule 3 rights under the Telecommunications Act 1997.

Optus hereby advises that it plans to engage in the construction activity as originally proposed in the notice served on 11 March 2011 at a date to be advised.

Yours faithfully

Douglas Troope

Optus Senior Project Manager

Ph: (07) 3304-6863 Fax: (07) 3304-6840

Email: douglas.troope@optus.com.au

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