

Environmental EME Report for Small Cells

Location	Old Castlereagh Road, CASTLEREAGH NSW 2749 (see photo)
Date	27/10/2021
RFNSA No.	2749010



How does this report work?

This report provides a summary of levels of radiofrequency (RF) electromagnetic energy (EME) around the small cell base station at Old Castlereagh Road, CASTLEREAGH NSW 2749. These levels have been calculated by Lend Lease using methodology developed by the Australian Radiation Protection and Nuclear Safety Agency (ARPANSA).

A document describing how to interpret this report is available at ARPANSA's website:

[A Guide to the Environmental Report.](#)

A snapshot of calculated EME at street level

There are currently no existing radio systems for this site.

The maximum EME level calculated for the **proposed** changes at 1.5m above ground is

1.99%

out of 100% of the public exposure limit, 9 m from the location.

Radio systems at the site

Existing transmitting equipment is listed under the existing configuration.

Proposed includes the final configuration after modifications are complete.

Carrier	Existing		Proposed	
	Systems	Configuration	Systems	Configuration
Optus			4G, 5G	LTE1800 (proposed), LTE2600 (proposed), NR/LTE2100 (proposed)

Calculated EME levels at other areas of interest

This table contains calculations of the maximum EME levels at selected areas of interest, identified with regard to the consultation requirements of the [Communications Alliance Ltd Deployment Code C564:2020](#) or other means. Calculations are performed over the indicated height range and include the proposed radio systems for this site.

Maximum cumulative EME level for the proposed configuration

Location	Height range	Percentage of the public exposure limit
No locations identified		