



Telco  
Authority

# Impact Assessment of Silverton Wind Farm on Government owned Radio Networks

29/08/2016



## Document History

Date	Version	Author	Revision	Changes
19/08/2016	0.1	Justin Alexander	Initial draft	
28/08/2016	0.1	Minoru Hirai	Review	
29/08/2016	1.0	Justin Alexander	Final for release	

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## 1 Introduction

NSWTA will review the impact that the proposed wind farm will have on telecommunication systems, microwave and radio links. The proposed development involves the construction and operation of the Silverton Wind Farm.

## 2 Objective

To identify any possible effects of wind farms on government telecommunication systems and to assess impacts and mitigation measures to avoid potential disruptions to the Government Radio Network (GRN).

## 3 Silverton Wind Farm Station

The Project Area (PA) for the proposed windfarm is shown below.

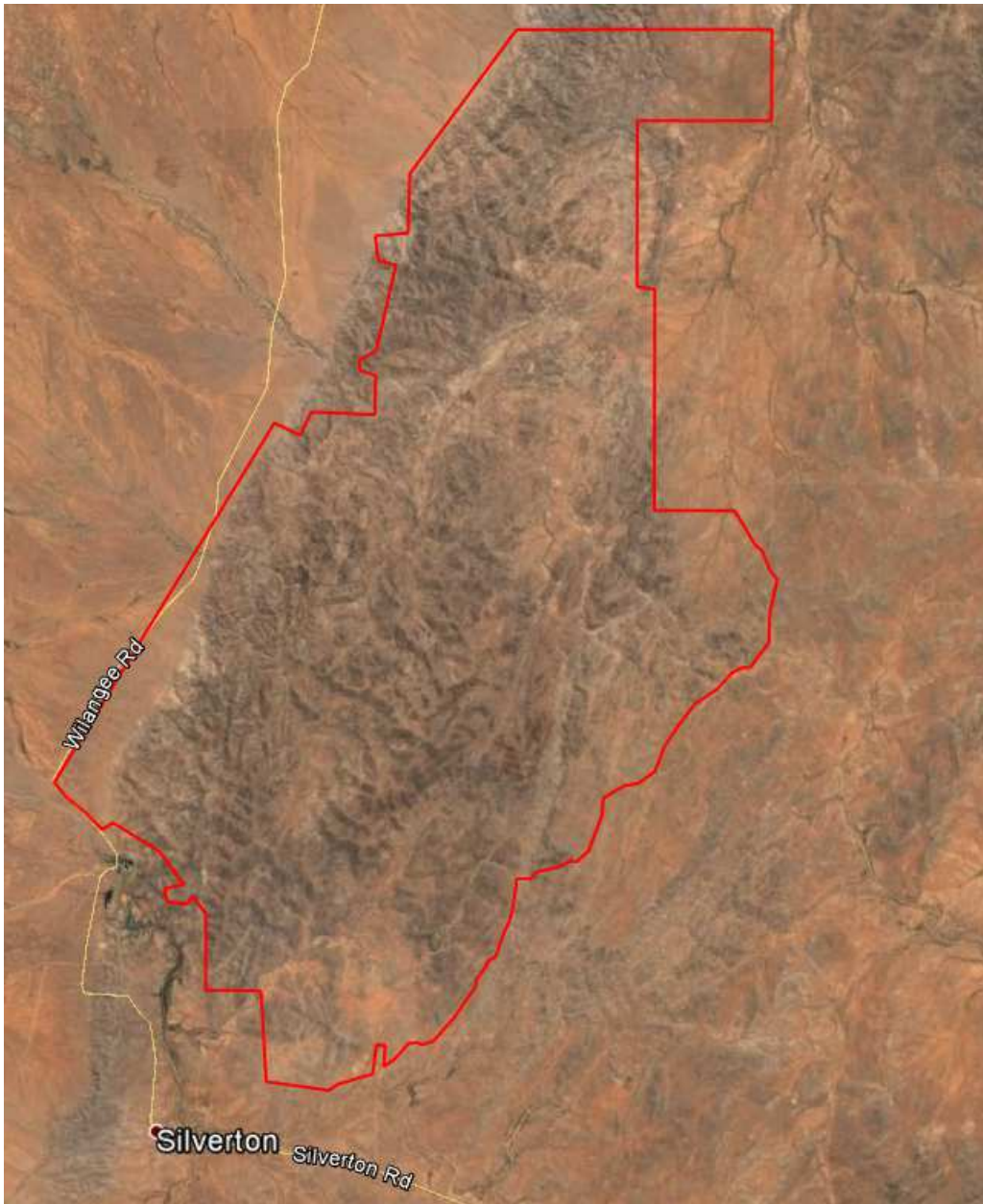


Figure 1 Silverton Wind Farm project area

### 3.1.1 GRN Sites within a 30 km radius

There are no existing GRN sites that have been identified to be situated in a 30km radius of the proposed wind farm.

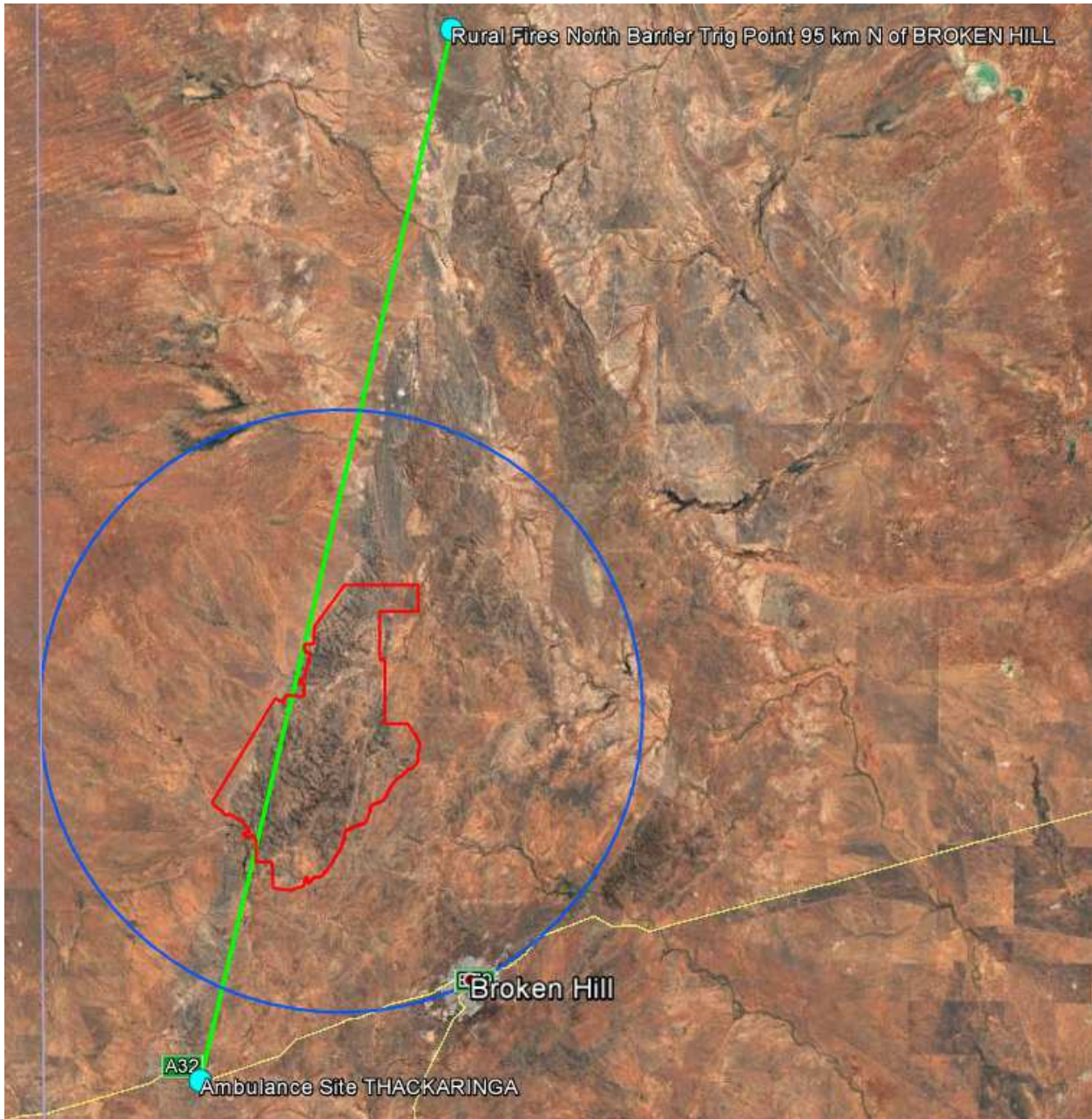
### 3.1.2 Desktop Study

There are no existing GRN sites that have been identified to be situated in a 30km radius of the proposed wind farm.

A study of other government sites (that is not a part of GRN network) indicates that there is 1 (one) point to point link (License No's: 1208677) that traverses the windfarm area. The details of these links are listed below.

Licence Number	Client	Frequency (MHz)	Transmit ACMA ID	Receive ACMA ID
1208677	NSW Rural Fire Service	460.05	34929	11444
1208677	NSW Rural Fire Service	450.55	11444	34929

**Table 1 Details of point to point links traversing Silverton Wind Farm area**



**Figure 2 Government Agency site and associated links**

**Legend:**

- - Agency Microwave Links
- - Proposed Silverton windfarm Project Area
- - 30km radius circle
- - Radio Site listed on ACMA

**4 Summary**

RFS has been approached by the “proponent” in 2008 to investigate the effect of interference of Silverton Windfarm to the link. At that stage, RFS responded that “it is unlikely the path would ever be developed and that the calculated performance of the radio link across this path would be too poor to consider its installation.”

At present, NSW TA has confirmed with RFS (email dated 29/08/2016) that link with licence number 1208677 is “not active and there is no plans to use it”.

Therefore, the development of the wind farm poses **NO** threat to any government agency owned point to point link. The respective agency must be notified about the outcome of this study.