MEMO

MARSHALL DAY Acoustics

Project:	Alberton Wind Farm	**Document No.:**	Mm 007		
To:	Synergy Wind Pty Ltd	**Date:**	5 November 2018		
Attention:	Ms Coralie Spitnzer	**Cross Reference:**	Rp 002 R02 2015590ML Alberton Wind Farm noise assessment, dated 19 April 2018		
Delivery:	Email	**Project No.:**	2015590ML		
From:	Alex Morabito	**No. Pages:**	1	**Attachments:**	No
CC:	Bernard Stewart				
Subject:	Predicted Noise Levels - Receiver S01				

This document details predicted noise levels at a previous unidentified receiver location in the vicinity of the Alberton Wind Farm.

The predicted noise levels presented herein are based on the assessed thirty-four (34) wind turbine layout and modelling assumptions as documented in MDA report, *Alberton Wind Farm Noise Assessment*, reference, Rp 002 R02 2015590ML Alberton Wind Farm noise assessment, dated 19 April 2018.

We understand the receiver location, identified as S01, is a proposed dwelling, however was not inhabited nor habitable at the time of the planning submission. Table 1 details the receiver location coordinates.

Table 1: Receiver coordinates (WGS84 Zone 55)

Receiver	Easting (m)	Northing (m)	Distance to nearest turbine (m)
S01	467322	5722563	773

The noise level predictions at receiver S01 are provided in Table 2, for the seven (7) candidate wind turbines previously assessed for the site.

Table 2: Highest predicted noise levels receiver S01 - dB L_{A90}

Receiver	Senvion 3.4M140	Siemens SWT 3.3-130	Vestas V136-3.45	Siemens SWT-3.15-142	Siemens SWT-3.6-130	Gamesa G132-3.465	Vestas V136-3.6
S01	39.0	40.9	41.3	39.5	39.8	41.1	40.2

The predicted noise levels are above the NZS 6808:2010 base noise limit of 40 dB L_{A90} for four (4) of the seven (7) candidate wind turbines proposed for the site.

Given the margin of compliance for particular wind turbine models, and subject to the wind farm being approved, it is likely a permit requirement will require that once the final turbine selection and layout (allowing for micro-siting) are confirmed, that compliance with the relevant noise limit will also need to be reassessed.

Certified System ISO 9001