

APPENDIX 1

Crudine Ridge Wind Farm Environmental Noise Assessment – Supplementary Analysis

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Crudine Ridge Wind Farm

Environmental Noise Assessment

Supplementary Analysis

Prepared For

Wind Prospect CWP

45 Hunter Street, Newcastle NSW 2300

S3736C7
July 2013



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INTRODUCTION

An environmental noise assessment has been made of the proposed Crudine Ridge Wind Farm, located 45km south of Mudgee and 45km north of Bathurst, New South Wales. The assessment is detailed in the Sonus Report, *Crudine Ridge Wind Farm – Environmental Noise Assessment*, S3736C5, dated October 2012 (the 2012 Report).

Upon request from the NSW Department of Planning and Infrastructure, additional analysis has been conducted to supplement the environmental noise assessment. This document provides information and results of the supplementary analysis conducted.

The supplementary analysis has included the following:

1. Correlation of the background noise logging data collected in 2011 with the corresponding wind speed data referenced at hub height for all seven logging locations; and,
2. Prediction of the noise levels at residences based on noise data referenced at hub height wind speed and comparison with the relevant noise criteria.

The analysis has assumed a hub height of 80m above ground level.



CORRELATIONS WITH HUB HEIGHT WIND SPEED

The correlations and resultant background noise levels presented in the 2012 Report have been based on wind speed data referenced at 10m above ground level (AGL). The analysis in the 2012 Report went beyond the requirements of the South Australian Environment Protection Authority's *Wind Farms – Environmental Noise Guidelines 2003* (the SA Guidelines) by using the two highest anemometer locations and shearing down to the 10m reference height, rather than relying directly on the measured wind speeds at the 10m height.

Notwithstanding this approach, the supplementary analysis considers the wind speed data referenced directly at an 80m hub height.

Analysis Method

The analysis method and technique detailed in the 2012 Report have been adopted in this supplementary analysis. This includes the 24 hour data analysis as required by the SA Guidelines, and the separated daytime and night-time analysis as required by the Department of Planning and Infrastructure.

Hub Height Wind Speed Data

The hub height wind speed data was taken directly from measured wind speed at a height of 80m AGL at the closet wind mast. Where the wind speed was not measured at 80m AGL (i.e., at wind mast SOF 1), the hub wind speed was derived using measurements at different heights, sheared using the power law wind shear equation.

Correlation Results

The background noise logging in 2011 was conducted at seven monitored locations. The collected noise data has been analysed using hub height wind speeds and the resultant regression curves are provided in Appendix A. Based on the regression analysis, the background noise level ($L_{A90,10}$) at a range of wind speeds within the operating range of the turbines is provided in Table 1.



Where the background noise level could not be determined from the regression analysis due to insufficient data, generally at higher wind speeds, a conservative assumption was made that the background noise level does not increase with wind speed. This is indicated in Table 1 using ***bold italic***.

Table 1: Background noise levels (dB(A)) from regression analysis.

| Residence ID | Background Noise Level (dB(A)) by Hub Height (80m) Wind Speed | | | | | | | | | | | | | |
|--|---|-------|-------|-------|-------|-------|-------|--------|--------|--------|-----------|-----------|-----------|-----------|
| | 3 m/s | 4 m/s | 5 m/s | 6 m/s | 7 m/s | 8 m/s | 9 m/s | 10 m/s | 11 m/s | 12 m/s | 13 m/s | 14 m/s | 15 m/s | 16 m/s |
| 24 Hour Period | | | | | | | | | | | | | | |
| CR14 | 28 | 28 | 29 | 29 | 30 | 31 | 33 | 34 | 36 | 37 | 39 | 41 | 43 | 43 |
| CR18 | 27 | 28 | 29 | 29 | 30 | 30 | 31 | 32 | 33 | 35 | 37 | 39 | 42 | 42 |
| CR28 | 22 | 22 | 22 | 23 | 24 | 25 | 27 | 29 | 31 | 33 | 36 | 38 | 40 | 40 |
| CR33 | 25 | 25 | 26 | 27 | 28 | 30 | 32 | 35 | 37 | 40 | 42 | 45 | 47 | 50 |
| HER04 | 24 | 24 | 24 | 25 | 27 | 28 | 30 | 31 | 33 | 34 | 35 | 36 | 36 | 36 |
| HER07 | 28 | 28 | 29 | 30 | 32 | 34 | 36 | 38 | 40 | 41 | 41 | 41 | 41 | 41 |
| SFR05 | 27 | 27 | 28 | 29 | 30 | 32 | 34 | 36 | 38 | 39 | 41 | 41 | 41 | 41 |
| Daytime Period (7am to 10pm) | | | | | | | | | | | | | | |
| CR14 | 29 | 30 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 41 | 42 | 44 | 44 |
| CR18 | 28 | 29 | 30 | 31 | 31 | 32 | 33 | 33 | 35 | 36 | 38 | 40 | 43 | 43 |
| CR28 | 23 | 24 | 24 | 25 | 27 | 28 | 30 | 32 | 34 | 35 | 37 | 38 | 40 | 40 |
| CR33 | 25 | 26 | 28 | 29 | 31 | 33 | 35 | 37 | 40 | 42 | 44 | 47 | 49 | 51 |
| HER04 | 26 | 26 | 26 | 28 | 29 | 30 | 32 | 34 | 35 | 36 | 36 | 36 | 36 | 36 |
| HER07 | 30 | 30 | 31 | 32 | 34 | 36 | 38 | 40 | 42 | 42 | 42 | 42 | 42 | 42 |
| SFR05 | 29 | 29 | 30 | 31 | 33 | 34 | 36 | 37 | 38 | 39 | 39 | 39 | 39 | 39 |
| Night-time Period (10pm to 7am) | | | | | | | | | | | | | | |
| CR14 | 25 | 24 | 24 | 24 | 25 | 27 | 28 | 30 | 32 | 34 | 36 | 37 | 37 | 37 |
| CR18 | 27 | 26 | 26 | 27 | 27 | 28 | 29 | 30 | 31 | 33 | 34 | 35 | 35 | 35 |
| CR28 | 20 | 19 | 19 | 19 | 20 | 21 | 23 | 25 | 28 | 31 | 34 | 37 | 37 | 37 |
| CR33 | 23 | 23 | 23 | 23 | 24 | 25 | 27 | 29 | 31 | 34 | 37 | 41 | 44 | 44 |
| HER04 | 22 | 21 | 21 | 22 | 23 | 24 | 26 | 28 | 30 | 32 | 32 | 32 | 32 | 32 |
| HER07 | 25 | 24 | 25 | 26 | 28 | 31 | 33 | 35 | 37 | 38 | 38 | 38 | 38 | 38 |
| SFR05 | 25 | 24 | 24 | 25 | 26 | 28 | 31 | 34 | 37 | 41 | 41 | 41 | 41 | 41 |

The environmental noise criteria for each residence derived from the background noise levels in Table 1 are provided in Appendices A and B. It is noted that where background noise monitoring had not occurred at a residence, the measured background levels at the closest monitoring location located on the same side of the wind farm as the residence have been used to derive the criteria.



ASSESSMENT

Wind Farm Noise Predictions

Turbine Layout and Noise Data

The noise from the wind farm has been assessed based on two planning layouts as detailed in the 2012 Report. The assessment considered the following turbine models with a hub height of 80m for each layout:

- Planning Layout A – 106 Acciona AW77 turbines; and,
- Planning Layout B – 77 Siemens SWT2.3-101 turbines.

The predictions of noise from the turbines have been based on the sound power level data from the manufacturers as considered in the 2012 Report. Prior to the predictions, the spectral data were interpolated to obtain octave band sound power levels referenced to integer hub height wind speeds. Tables 2 and 3 contain the resultant sound power levels used in the predictions.

Table 2: Acciona AW77 sound power levels.

| Octave Band Centre Frequency (Hz) | Sound Power Levels (dB(A)) by Hub Height (80m) Wind Speed | | | | | | | | | |
|---|---|-------|-------|-------|-------|-------|--------|--------|--------|-----------------|
| | 3 to 4 m/s | 5 m/s | 6 m/s | 7 m/s | 8 m/s | 9 m/s | 10 m/s | 11 m/s | 12 m/s | 13 to 16 m/s |
| 63 | 76.6 | 77.8 | 79.2 | 80.6 | 82.0 | 82.8 | 83.3 | 83.4 | 83.4 | 83.5 |
| 125 | 84.1 | 85.3 | 86.7 | 88.2 | 89.5 | 90.4 | 90.8 | 90.9 | 91.0 | 91.0 |
| 250 | 90.9 | 92.1 | 93.6 | 95.0 | 96.4 | 97.2 | 97.7 | 97.7 | 97.8 | 97.8 |
| 500 | 92.6 | 93.8 | 95.3 | 96.7 | 98.1 | 98.9 | 99.4 | 99.4 | 99.5 | 99.5 |
| 1000 | 93.9 | 95.1 | 96.5 | 98.0 | 99.3 | 100.2 | 100.6 | 100.7 | 100.8 | 100.8 |
| 2000 | 86.0 | 87.2 | 88.6 | 90.1 | 91.4 | 92.3 | 92.7 | 92.8 | 92.9 | 92.9 |
| 4000 | 81.2 | 82.4 | 83.9 | 85.3 | 86.7 | 87.5 | 88.0 | 88.0 | 88.1 | 88.1 |
| 8000 | 67.8 | 69.0 | 70.4 | 71.8 | 73.2 | 74.0 | 74.5 | 74.6 | 74.6 | 74.7 |
| Total | 98.0 | 99.2 | 100.7 | 102.1 | 103.5 | 104.3 | 104.8 | 104.8 | 104.9 | 104.9 |



Table 3: Siemens SWT2.3-101 sound power levels.

| Octave Band Centre Frequency (Hz) | Sound Power Levels (dB(A)) by Hub Height (80m) Wind Speed | | | | | |
|---|---|-------|-------|-------|-------|-----------------|
| | 3 to 5 m/s | 6 m/s | 7 m/s | 8 m/s | 9 m/s | 10 to 16 m/s |
| 63 | 71.1 | 72.5 | 75.9 | 79.3 | 81.4 | 82.5 |
| 125 | 82.3 | 83.7 | 87.1 | 90.5 | 92.5 | 93.4 |
| 250 | 86.4 | 87.8 | 91.2 | 94.6 | 96.4 | 97.1 |
| 500 | 90.0 | 91.4 | 94.8 | 98.2 | 100.2 | 101.1 |
| 1000 | 90.2 | 91.6 | 95.0 | 98.4 | 100.3 | 101.1 |
| 2000 | 86.8 | 88.2 | 91.6 | 95.0 | 96.8 | 97.4 |
| 4000 | 79.4 | 80.8 | 84.2 | 87.6 | 89.5 | 90.2 |
| 8000 | 75.1 | 76.5 | 79.9 | 83.3 | 85.3 | 86.2 |
| Total | 95.1 | 96.6 | 99.9 | 103.4 | 105.2 | 106.0 |

The predictions have been conducted without a penalty for the presence of tonal characteristics.

Noise Propagation Model and Inputs

The noise predictions were conducted using the propagation model and inputs as detailed in the 2012 Report

Predicted Noise Levels and Comparison with Established Criteria

The noise levels at the residences in the vicinity of the wind farm from turbines have been predicted and compared against the established environmental noise criteria.

Assessment against the SA Guidelines

Appendix C provides the predicted noise levels at residences from turbines for both layouts and the criteria in accordance with the SA Guidelines for each residence at each relevant wind speed.

Based on the predicted noise levels, the 106 Acciona AW77 turbines arranged in accordance with Layout A and the 77 Siemens SWT2.3-101 turbines arranged in



accordance with Layout B, will comply with the relevant criteria at all residences (both with and without an agreement) for all wind speeds.

Assessment against the Separated Criteria for Daytime and Night Periods

Appendix D provides the predicted noise levels at residences from turbines for both layouts and the night-time criteria for each residence at each relevant wind speed. It is noted that the derived night-time criteria are more stringent than the daytime criteria.

Based on the predicted noise levels, the 106 Acciona AW77 turbines arranged in accordance with Layout A and the 77 Siemens SWT2.3-101 turbines arranged in accordance with Layout B, will comply with the relevant night-time criteria at all residence (both with and without an agreement) for all wind speeds, except at CR34.

At CR34, the predicted noise level exceed the criteria at 9m/s to 11m/s wind speeds by up to 2 dB(A) for the Layout A arrangement; and at 10m/s wind speed by 1 dB(A) for the Layout B arrangement. These exceedances are highlighted yellow in Appendix D.

Noise Reduction Strategies

In order to meet compliance with the criteria at all residences, noise reduction options have been considered consisting of a low noise operating strategy to certain turbines during certain wind speeds.

The potential noise reduction strategies for the two planning layouts based on the proposed turbines models are summarised below:

Layout A – 106 Acciona AW77 Turbines

The Acciona AW77 turbine has the capacity to operate in low noise modes with reductions in the maximum noise level of of 2 to 6 dB(A). In order to achieve compliance at all residences, several operating scenarios have been determined as summarised in Table 4. The noise reduction operating strategy is to be applied during wind speeds of 9m/s to 11 m/s.



Table 4: Noise reduction mode scenarios.

| Turbine ID | Coordinates | | Noise Reduction Mode | | |
|------------|-------------|----------|----------------------|------------|------------|
| | Easting | Northing | Scenario 1 | Scenario 2 | Scenario 3 |
| A87 | 744607 | 6345442 | - 5 dB | - 4 dB | - 2 dB |
| A89 | 744563 | 6345251 | - 5 dB | - 4 dB | - 2 dB |
| A83 | 744447 | 6346218 | - 5 dB | - 4 dB | - 2 dB |
| A85 | 744529 | 6345707 | - 5 dB | - 4 dB | - 2 dB |
| A84 | 744407 | 6345956 | - 5 dB | - 4 dB | - 2 dB |
| A82 | 744318 | 6346529 | - 5 dB | - 4 dB | - 2 dB |
| A73 | 744287 | 6347414 | - 5 dB | - 4 dB | - 2 dB |
| A94 | 744469 | 6344920 | - 5 dB | - 4 dB | - 2 dB |
| A71 | 744411 | 6347845 | - 5 dB | - 4 dB | - 2 dB |
| A58 | 746109 | 6348909 | - 3 dB | - 4 dB | - 2 dB |
| A66 | 745052 | 6348607 | 0 | - 4 dB | - 2 dB |
| A68 | 744607 | 6348365 | 0 | - 2 dB | - 2 dB |
| A95 | 744267 | 6344662 | 0 | 0 | - 2 dB |
| A86 | 744169 | 6345618 | 0 | 0 | - 2 dB |
| A79 | 744105 | 6346867 | 0 | 0 | - 2 dB |
| A88 | 744205 | 6345429 | 0 | 0 | - 2 dB |
| A90 | 744234 | 6345142 | 0 | 0 | - 2 dB |
| A78 | 744169 | 6347131 | 0 | 0 | - 2 dB |
| A72 | 743956 | 6347620 | 0 | 0 | - 2 dB |
| A57 | 746267 | 6349169 | 0 | 0 | - 2 dB |
| A67 | 744631 | 6348563 | 0 | 0 | - 2 dB |
| A69 | 744556 | 6348109 | 0 | 0 | - 2 dB |
| A76 | 743780 | 6347316 | 0 | 0 | - 2 dB |

Note: The -6 dB operating mode was not considered to allow for a contingency strategy.

Layout B – 77 Siemens SWT2.3-101 Turbines

The SWT2.3-101 turbine has the ability to operate in low noise modes with a reduction in the maximum noise level of 1 dB(A) at wind speeds above 6m/s. An operating scenario at 10m/s wind speed has been determined and provided in Table 5. With the operating strategy implement, the noise from the wind farm is predicted to achieve compliance at all residences.

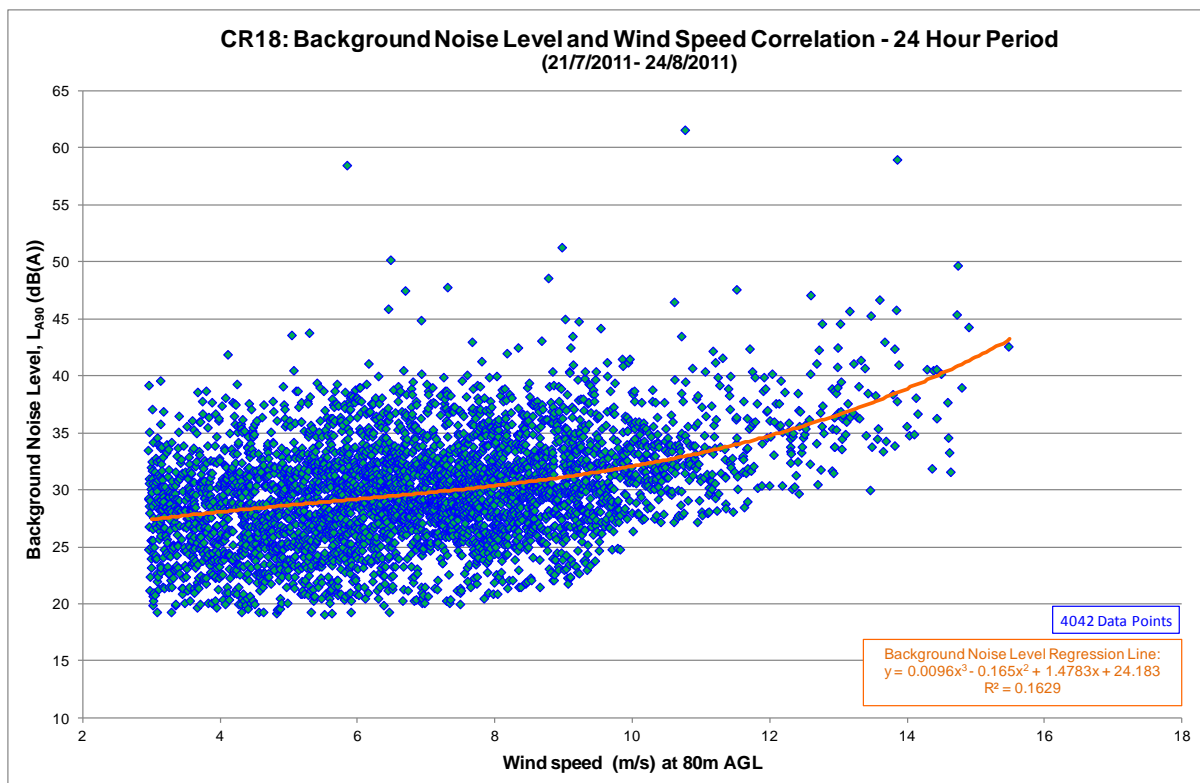
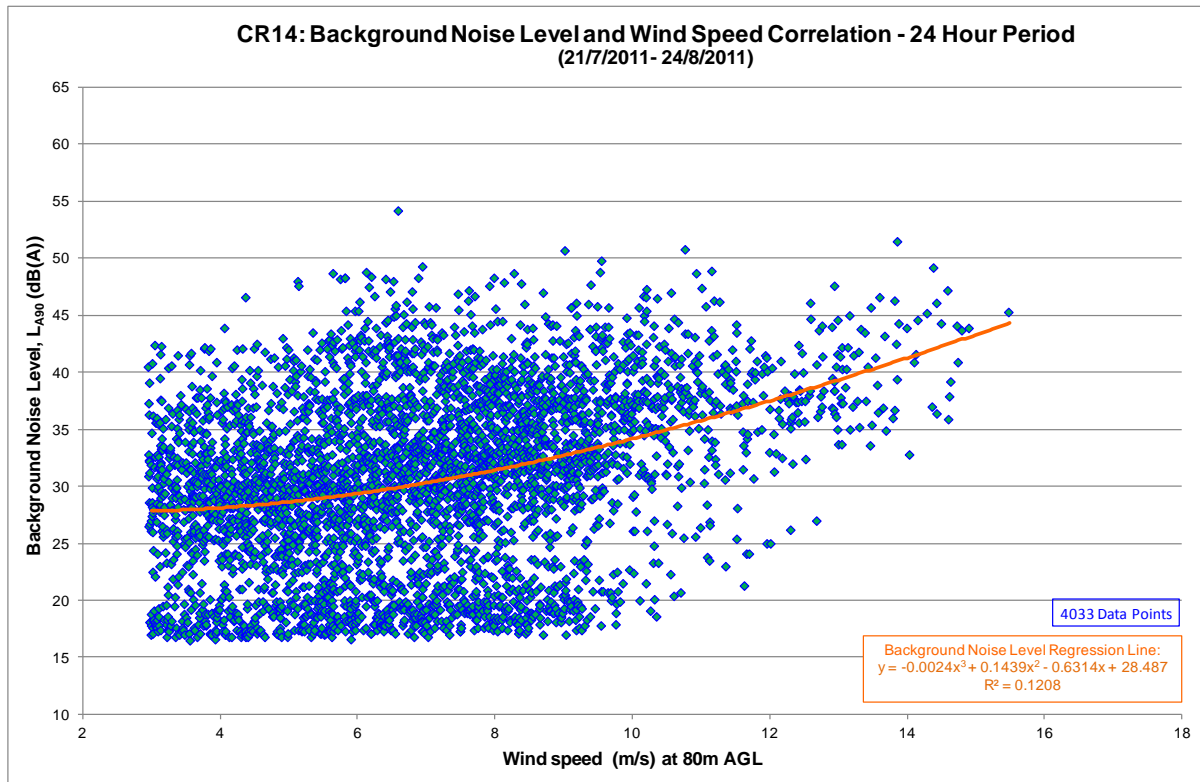


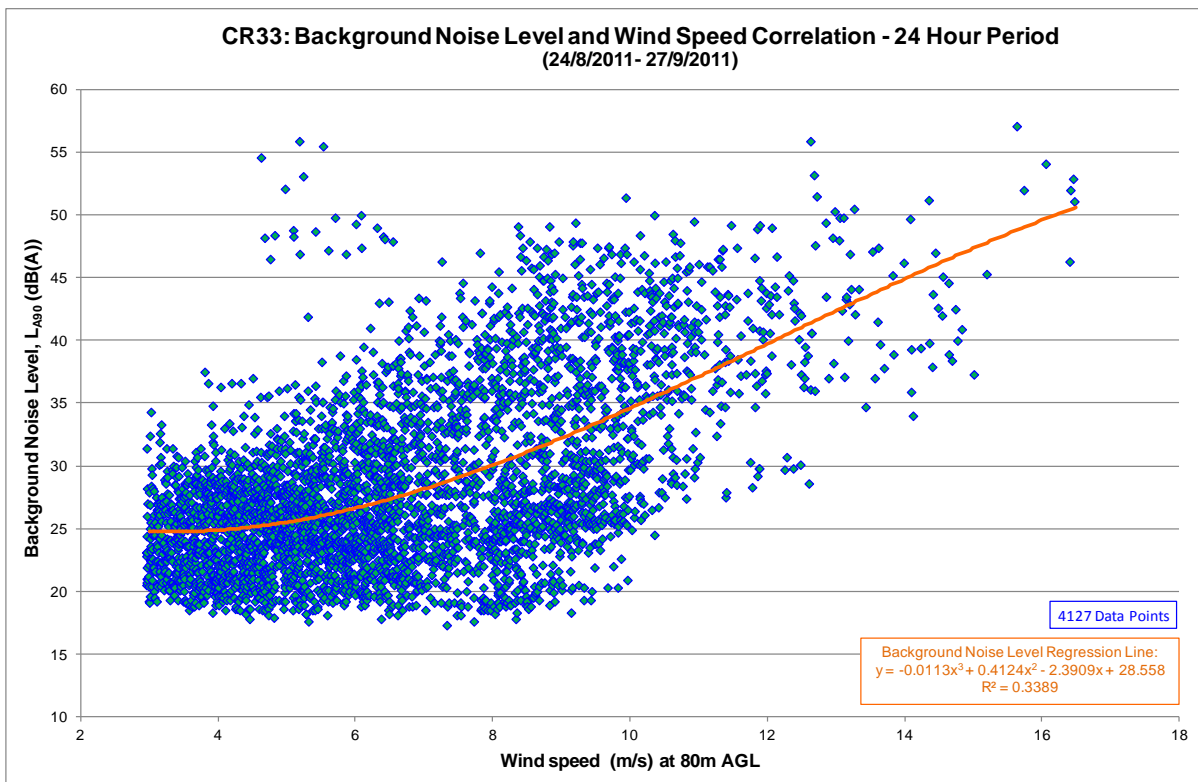
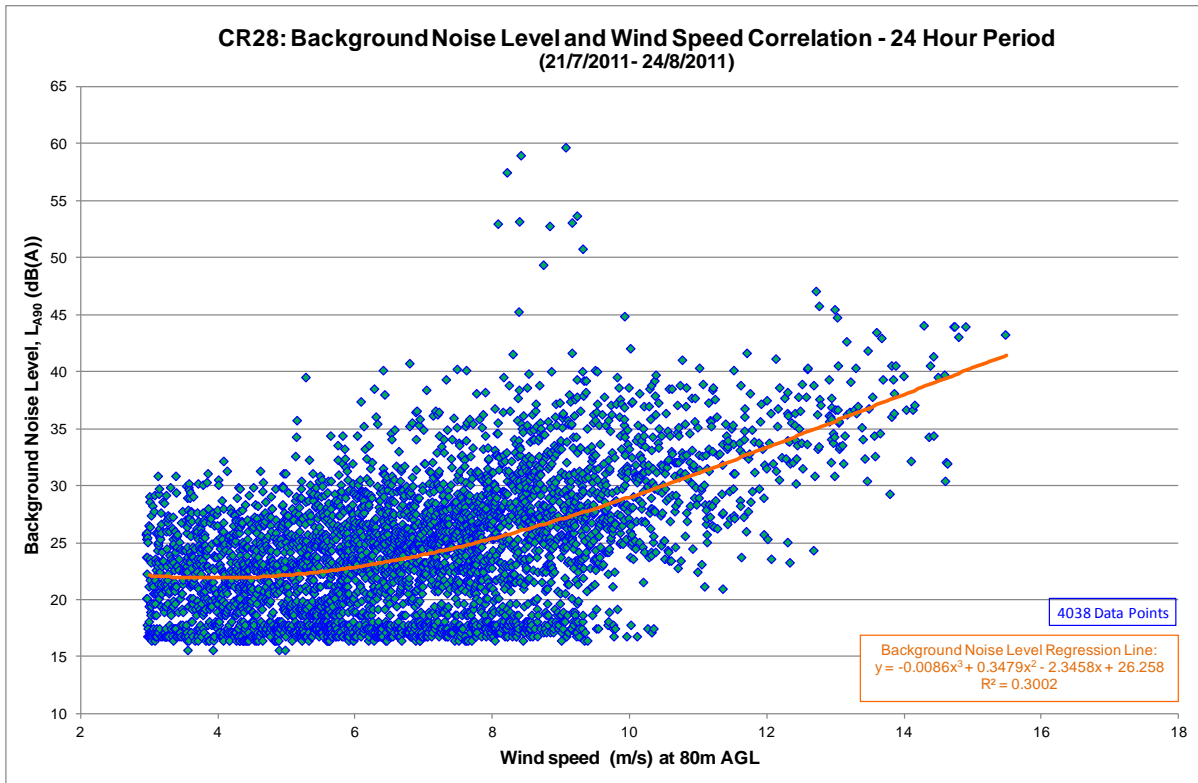
Table 5: Noise reduction mode scenario.

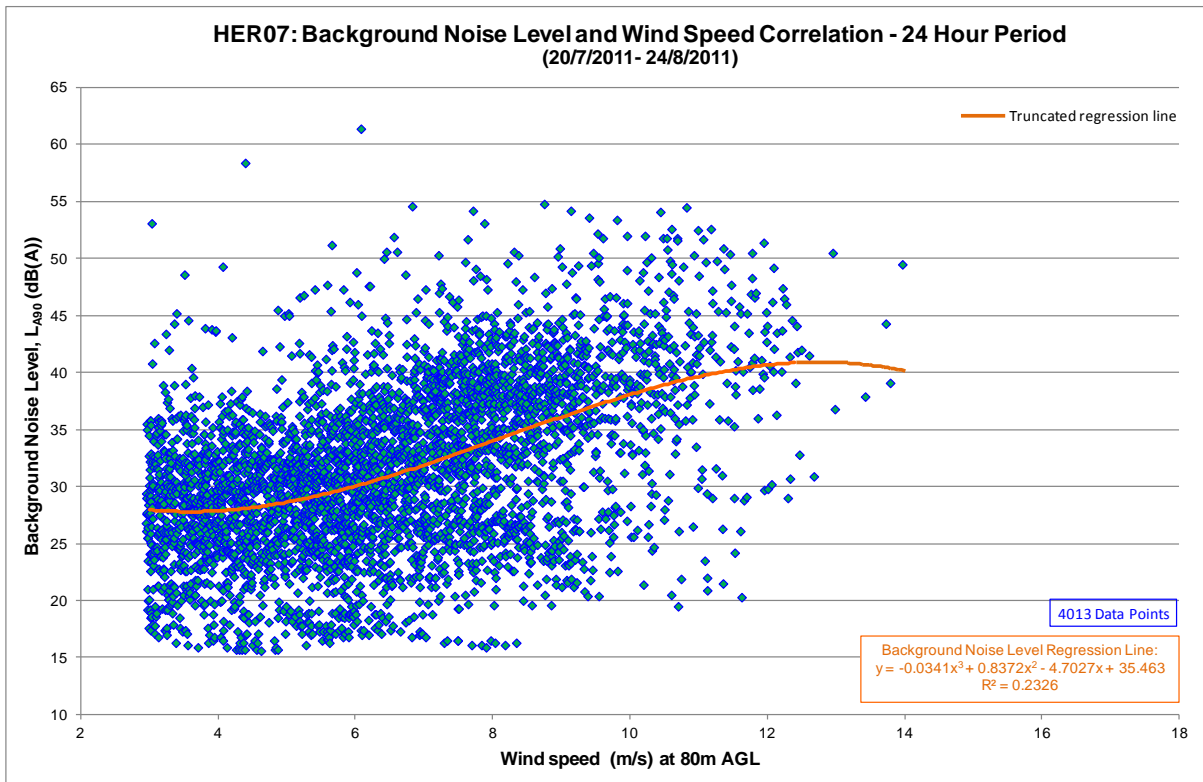
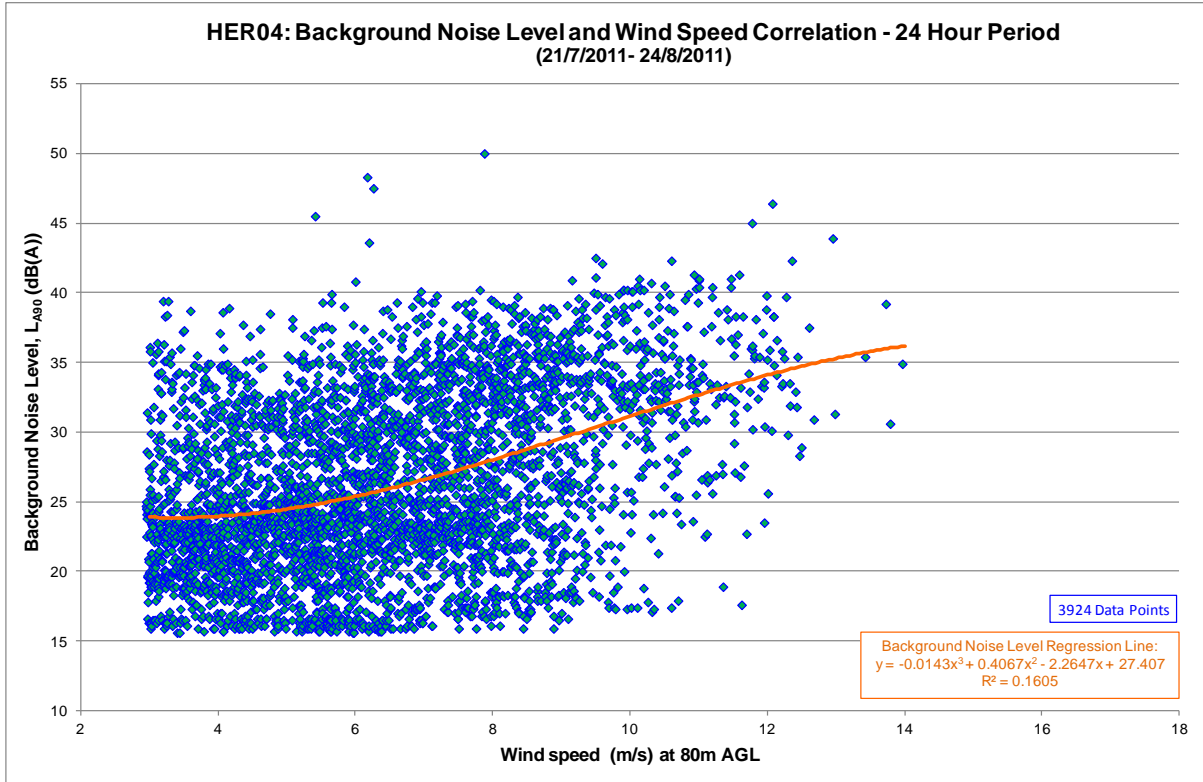
| Turbine ID | Coordinates | | Noise Reduction Mode |
|------------|-------------|----------|----------------------|
| | Easting | Northing | |
| B63 | 744619 | 6345394 | - 1 dB |
| B58 | 744319 | 6346519 | - 1 dB |
| B60 | 744444 | 6346194 | - 1 dB |
| B61 | 744519 | 6345719 | - 1 dB |
| B53 | 744294 | 6347394 | - 1 dB |
| B65 | 744466 | 6344947 | - 1 dB |
| B51 | 744444 | 6347869 | - 1 dB |
| B42 | 746094 | 6348894 | - 1 dB |
| B48 | 745069 | 6348569 | - 1 dB |
| B49 | 744594 | 6348194 | - 1 dB |
| B68 | 744269 | 6344644 | - 1 dB |
| B56 | 744089 | 6346883 | - 1 dB |
| B47 | 744644 | 6348469 | - 1 dB |
| B62 | 744144 | 6345494 | - 1 dB |
| B41 | 746292 | 6349221 | - 1 dB |

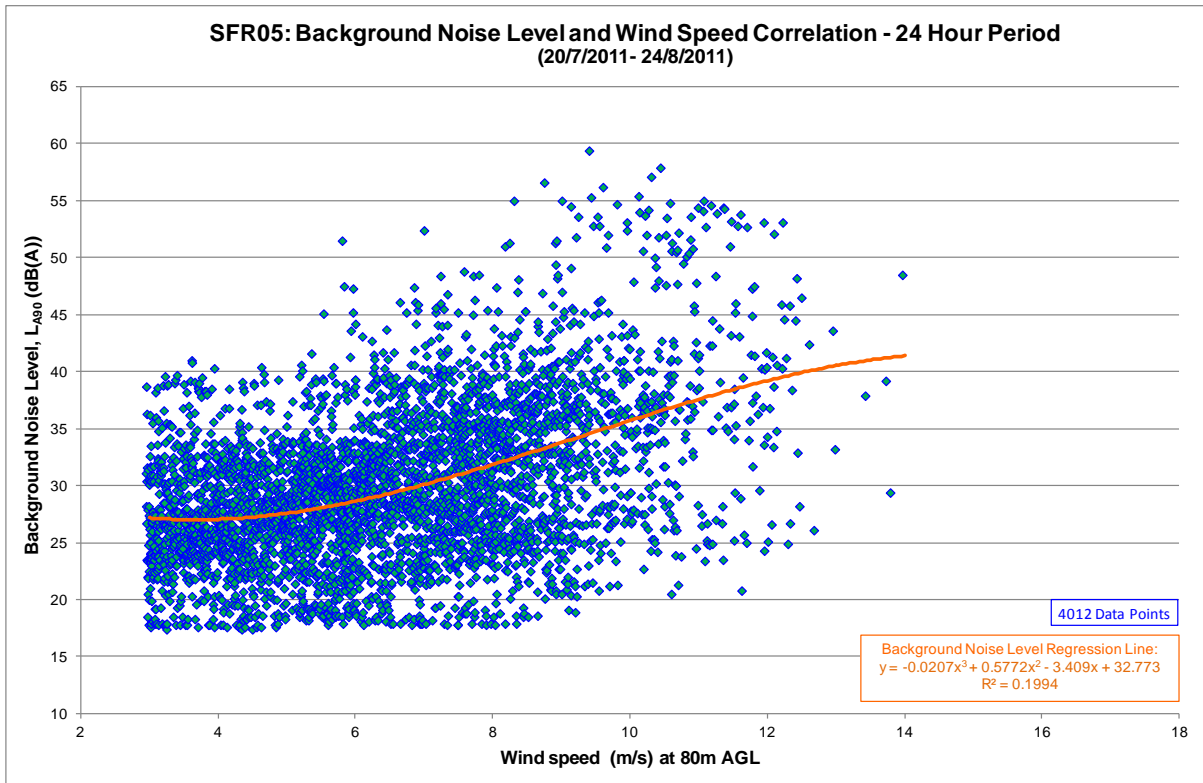


APPENDIX A: CORRELATIONS AND REGRESSION ANALYSIS – 24 HOUR PERIOD



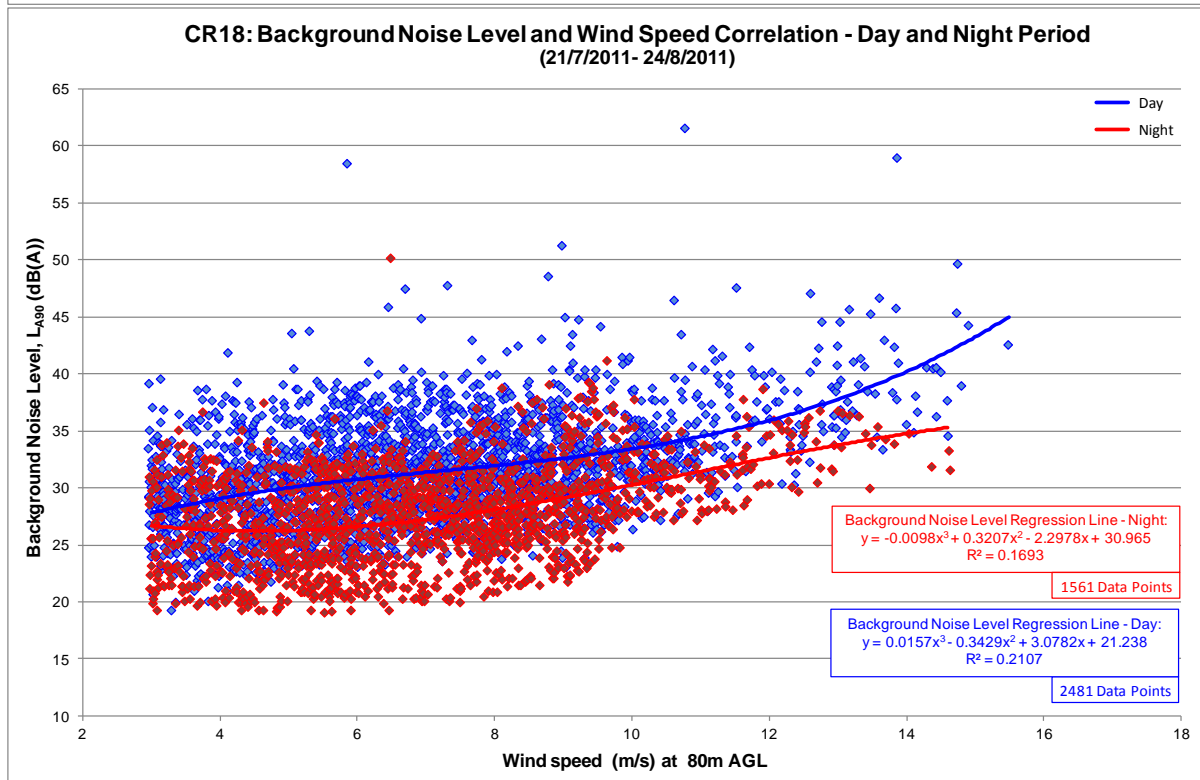
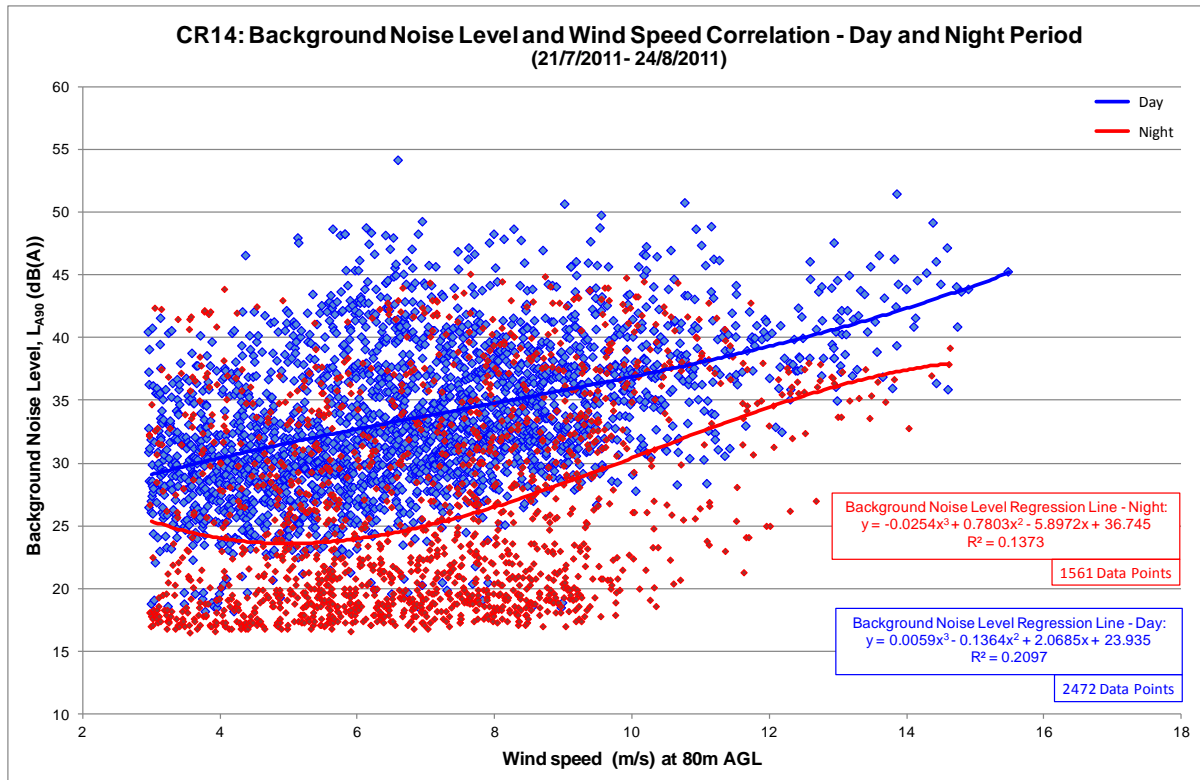


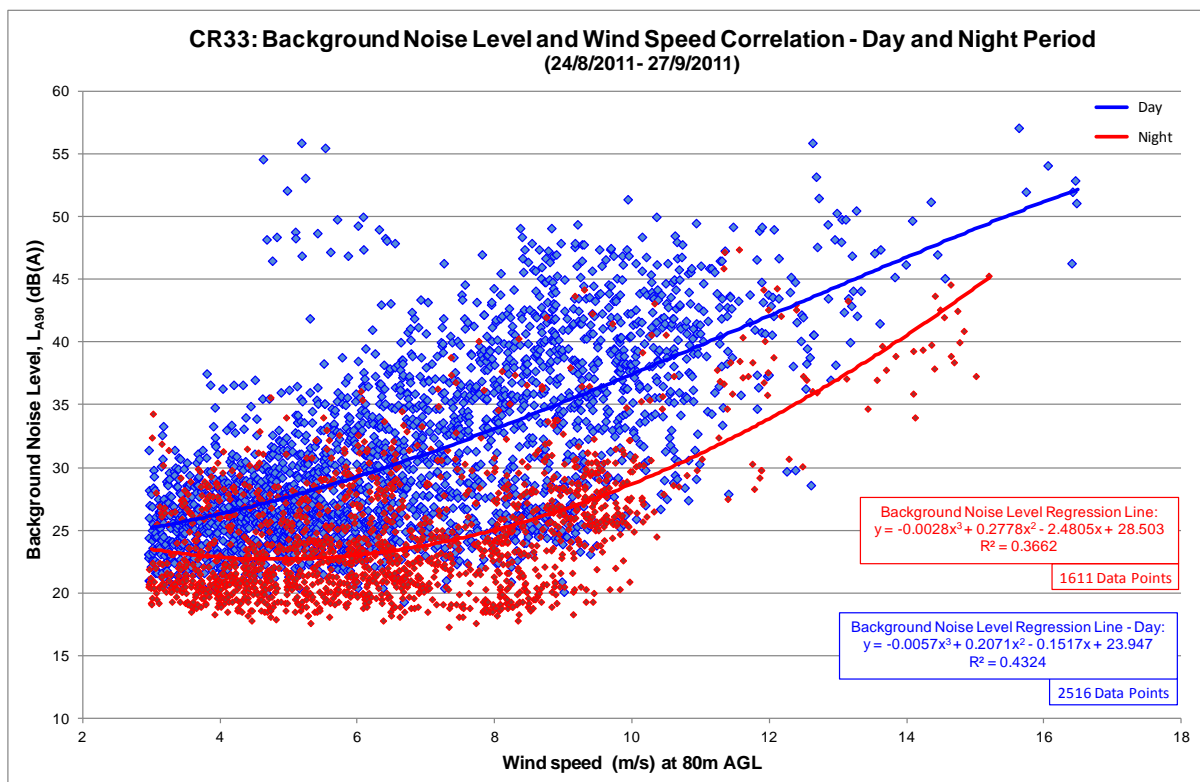
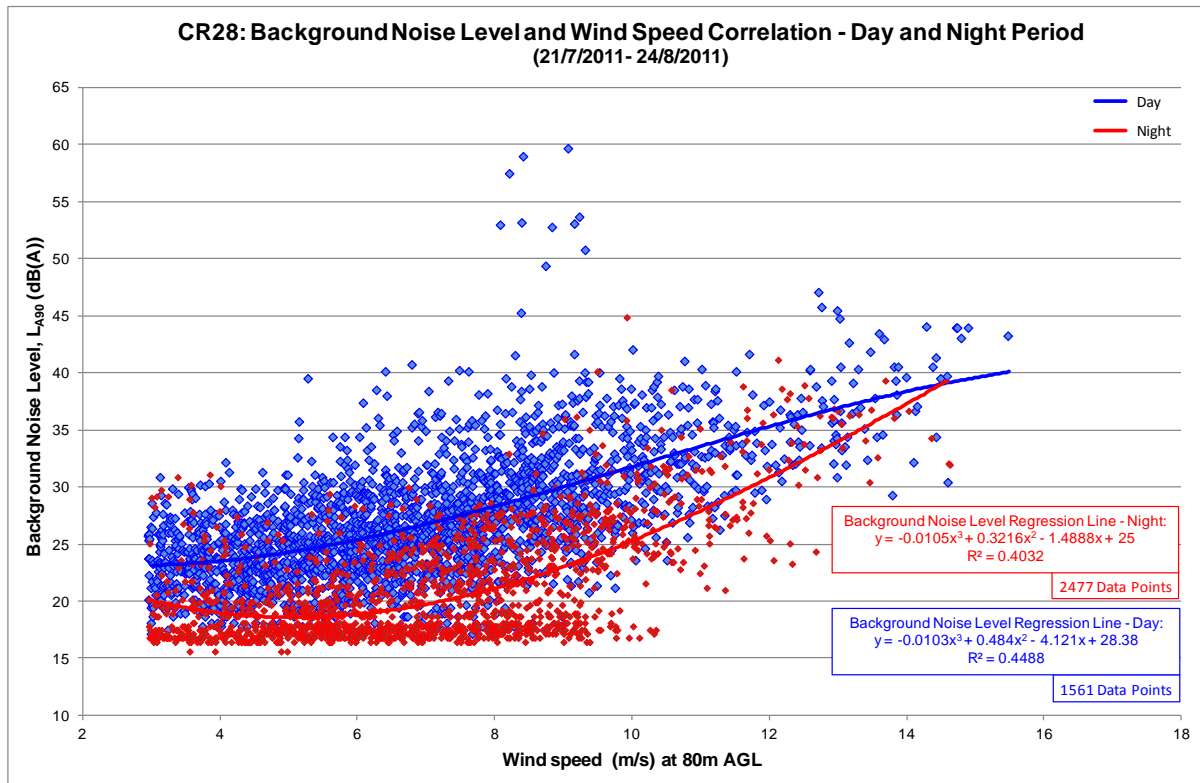


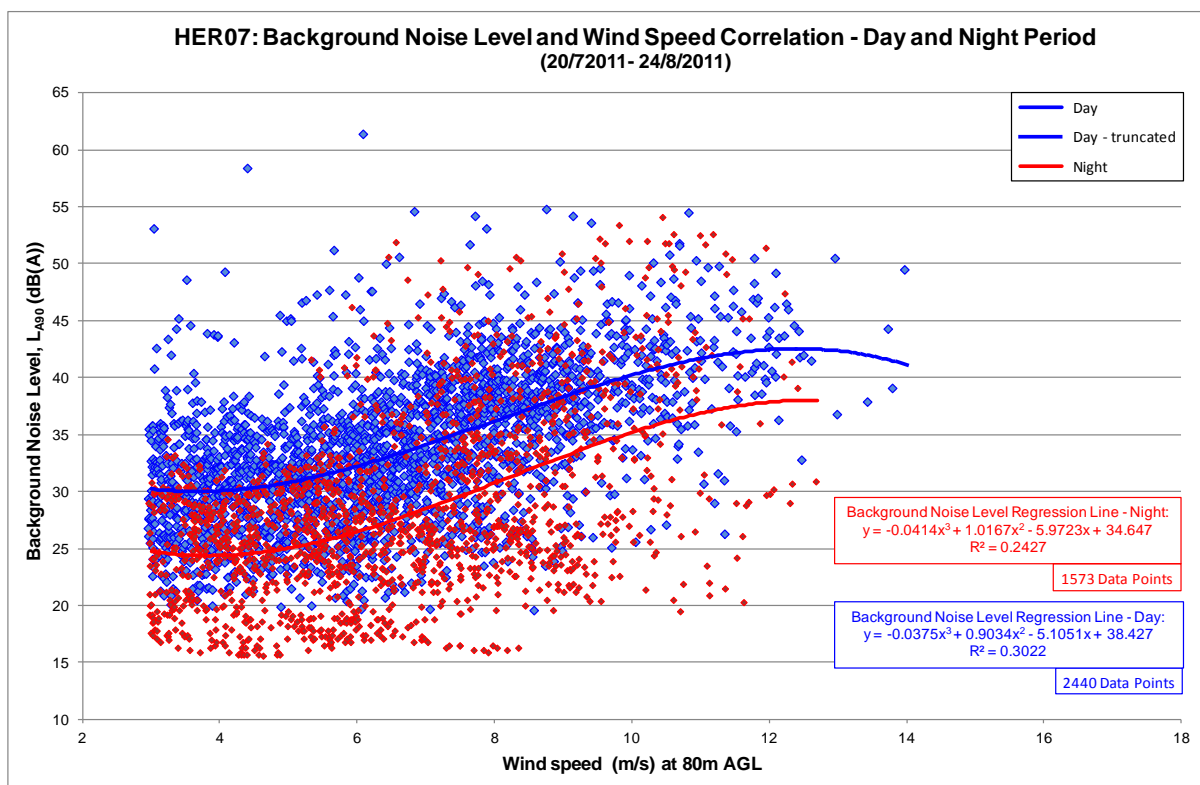
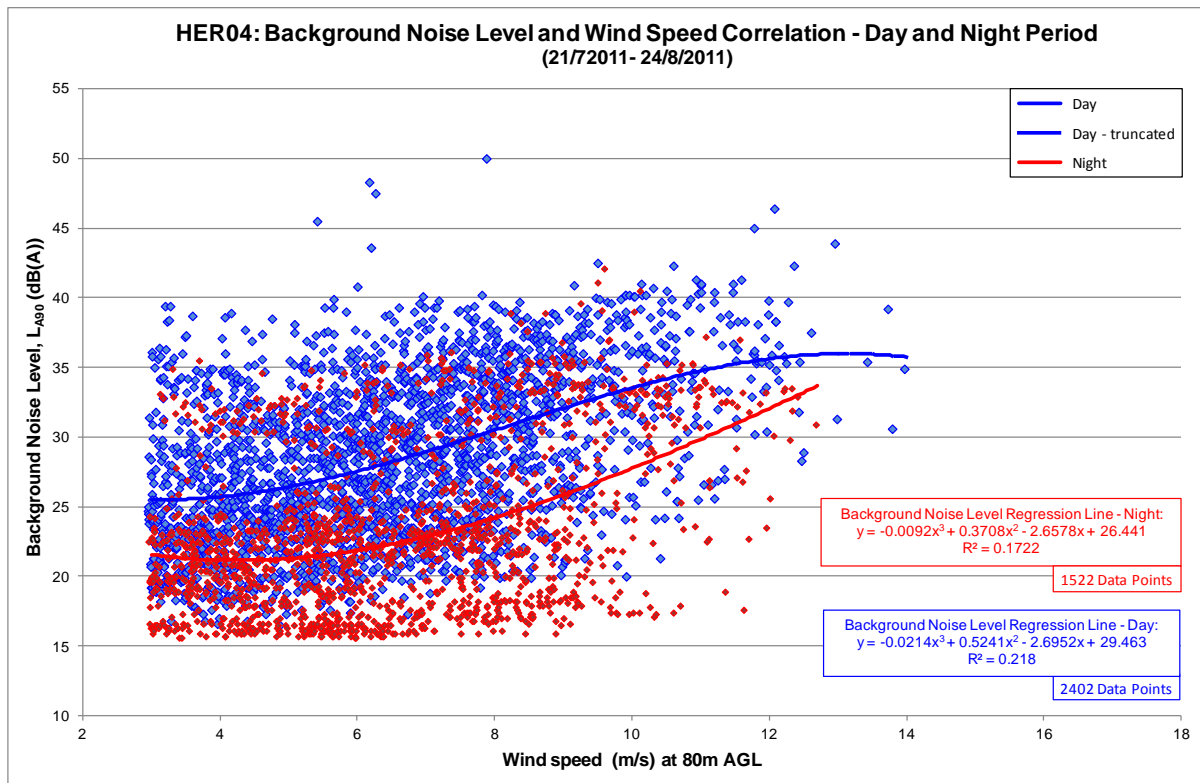


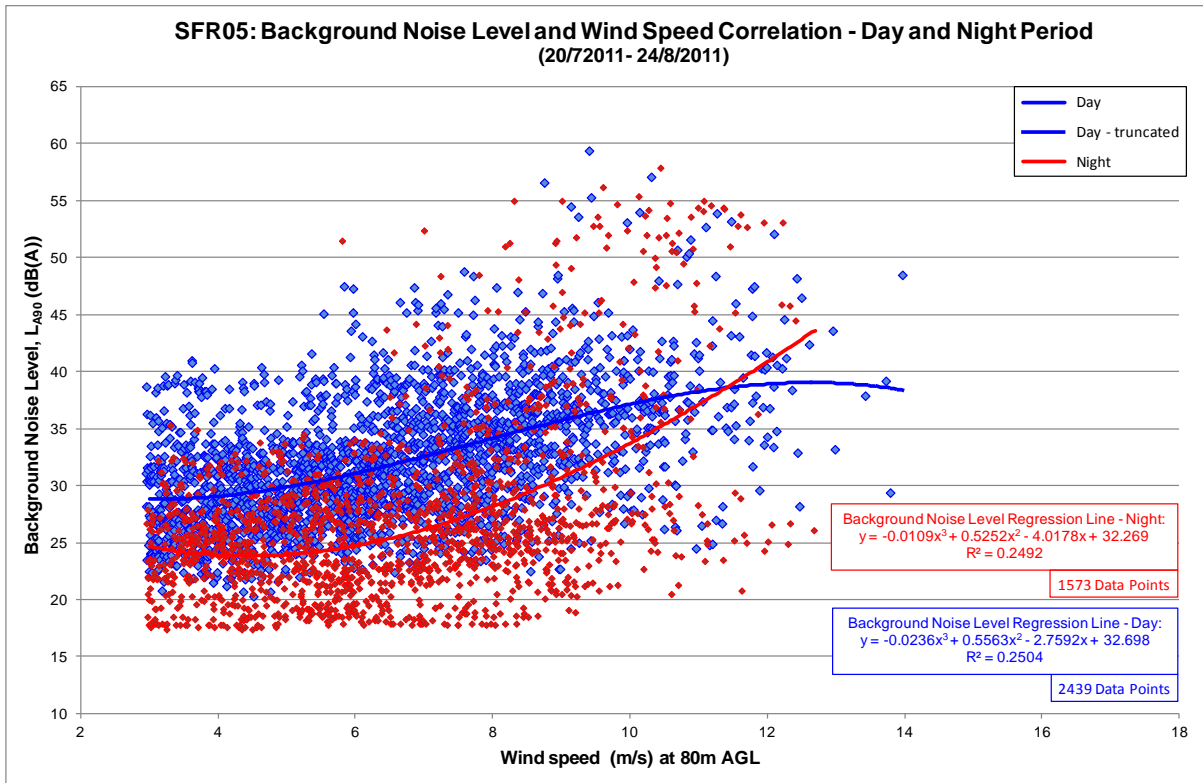


APPENDIX B: CORRELATIONS AND REGRESSION ANALYSIS – DAY AND NIGHT PERIODS











APPENDIX C: NOISE CRITERIA (SA GUIDELINES) AND PREDICTED NOISE LEVELS

Planning Layout A with 106 Acciona AW77 WTGs – 24 Hour Period

| Residence ID | Representative Logging Location | Criteria (dB(A)) by Hub Height (80m) Wind Speed (m/s) | | | | | | | | | | | | | | Predicted Noise Level (dB(A)) by Hub Height (80m) Wind Speed (m/s) | | | | | | | | | | | | | |
|--------------|---------------------------------|---|----|----|----|----|----|----|----|----|----|----|----|----|----|--|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| APR02 | CR14 | 35 | 35 | 35 | 35 | 35 | 36 | 38 | 39 | 41 | 42 | 44 | 46 | 48 | 48 | 21 | 21 | 22 | 23 | 25 | 26 | 27 | 28 | 28 | 28 | 28 | 28 | 28 | |
| APR03 | CR14 | 35 | 35 | 35 | 35 | 35 | 36 | 38 | 39 | 41 | 42 | 44 | 46 | 48 | 48 | 21 | 21 | 22 | 24 | 25 | 27 | 27 | 28 | 28 | 28 | 28 | 28 | 28 | |
| APR04 | CR14 | 35 | 35 | 35 | 35 | 35 | 36 | 38 | 39 | 41 | 42 | 44 | 46 | 48 | 48 | 21 | 21 | 23 | 24 | 25 | 27 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | |
| APR05 | CR14 | 35 | 35 | 35 | 35 | 35 | 36 | 38 | 39 | 41 | 42 | 44 | 46 | 48 | 48 | 21 | 21 | 22 | 24 | 25 | 27 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | |
| APR06 | CR14 | 35 | 35 | 35 | 35 | 35 | 36 | 38 | 39 | 41 | 42 | 44 | 46 | 48 | 48 | 22 | 22 | 23 | 24 | 26 | 27 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | |
| APR07 | CR14 | 35 | 35 | 35 | 35 | 35 | 36 | 38 | 39 | 41 | 42 | 44 | 46 | 48 | 48 | 20 | 20 | 22 | 23 | 24 | 26 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | |
| APR08 | CR14 | 35 | 35 | 35 | 35 | 35 | 36 | 38 | 39 | 41 | 42 | 44 | 46 | 48 | 48 | 19 | 19 | 21 | 22 | 24 | 25 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | |
| APR09 | CR14 | 35 | 35 | 35 | 35 | 35 | 36 | 38 | 39 | 41 | 42 | 44 | 46 | 48 | 48 | 19 | 19 | 20 | 22 | 23 | 25 | 25 | 26 | 26 | 26 | 26 | 26 | 26 | |
| APR10 | CR14 | 35 | 35 | 35 | 35 | 35 | 36 | 38 | 39 | 41 | 42 | 44 | 46 | 48 | 48 | 20 | 20 | 21 | 23 | 24 | 26 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | |
| CR10 | CR14 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 46 | 48 | 48 | 18 | 18 | 19 | 20 | 22 | 23 | 24 | 24 | 25 | 25 | 25 | 25 | 25 | |
| CR12 | CR14 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 46 | 48 | 48 | 19 | 19 | 21 | 22 | 23 | 25 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | |
| CR13 | CR14 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 46 | 48 | 48 | 28 | 28 | 29 | 31 | 32 | 34 | 34 | 35 | 35 | 35 | 35 | 35 | 35 | |
| CR14 | CR14 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 46 | 48 | 48 | 29 | 29 | 30 | 32 | 33 | 34 | 35 | 36 | 36 | 36 | 36 | 36 | 36 | |
| CR15 | CR14 | 35 | 35 | 35 | 35 | 35 | 36 | 38 | 39 | 41 | 42 | 44 | 46 | 48 | 48 | 29 | 29 | 30 | 31 | 33 | 34 | 35 | 36 | 36 | 36 | 36 | 36 | 36 | |
| CR16 | CR18 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 37 | 38 | 40 | 42 | 44 | 47 | 47 | 28 | 28 | 29 | 31 | 32 | 34 | 34 | 35 | 35 | 35 | 35 | 35 | 35 | |
| CR18 | CR18 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 37 | 38 | 40 | 42 | 44 | 47 | 47 | 28 | 28 | 29 | 30 | 32 | 33 | 34 | 34 | 34 | 35 | 35 | 35 | 35 | |
| CR19 | CR18 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 37 | 38 | 40 | 42 | 44 | 47 | 47 | 28 | 28 | 29 | 30 | 32 | 33 | 34 | 34 | 35 | 35 | 35 | 35 | 35 | |
| CR20 | CR18 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 37 | 38 | 40 | 42 | 44 | 47 | 47 | 27 | 27 | 29 | 30 | 32 | 33 | 34 | 34 | 34 | 34 | 34 | 34 | 34 | |
| CR21 | CR18 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 37 | 38 | 40 | 42 | 44 | 47 | 47 | 27 | 27 | 29 | 30 | 31 | 33 | 34 | 34 | 34 | 34 | 34 | 34 | 34 | |
| CR24 | CR18 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 37 | 38 | 40 | 42 | 44 | 47 | 47 | 26 | 26 | 27 | 28 | 30 | 31 | 32 | 33 | 33 | 33 | 33 | 33 | 33 | |
| CR25 | CR28 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 28 | 28 | 29 | 31 | 32 | 34 | 34 | 35 | 35 | 35 | 35 | 35 | 35 | |



| Residence ID | Representative Logging Location | Criteria (dB(A)) by Hub Height (80m) Wind Speed (m/s) | | | | | | | | | | | | | | Predicted Noise Level (dB(A)) by Hub Height (80m) Wind Speed (m/s) | | | | | | | | | | | | | |
|--------------|---------------------------------|---|----|----|----|----|----|----|----|----|----|----|----|----|----|--|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| CR26 | CR28 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 38 | 41 | 43 | 45 | 45 | 27 | 27 | 28 | 30 | 31 | 33 | 33 | 34 | 34 | 34 | 34 | 34 | 34 | |
| CR27 | CR28 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 38 | 41 | 43 | 45 | 45 | 26 | 26 | 28 | 29 | 31 | 32 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | |
| CR28 | CR28 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 38 | 41 | 43 | 45 | 45 | 28 | 28 | 29 | 31 | 32 | 33 | 34 | 35 | 35 | 35 | 35 | 35 | 35 | |
| CR32 | CR33 | 35 | 35 | 35 | 35 | 35 | 35 | 37 | 40 | 42 | 45 | 47 | 50 | 52 | 55 | 27 | 27 | 28 | 29 | 31 | 32 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | |
| CR33 | CR33 | 35 | 35 | 35 | 35 | 35 | 35 | 37 | 40 | 42 | 45 | 47 | 50 | 52 | 55 | 28 | 28 | 29 | 30 | 32 | 33 | 34 | 35 | 35 | 35 | 35 | 35 | 35 | |
| CR34 | CR33 | 35 | 35 | 35 | 35 | 35 | 35 | 37 | 40 | 42 | 45 | 47 | 50 | 52 | 55 | 30 | 30 | 31 | 33 | 34 | 35 | 36 | 37 | 37 | 37 | 37 | 37 | 37 | |
| CR35 | CR33 | 35 | 35 | 35 | 35 | 35 | 35 | 37 | 40 | 42 | 45 | 47 | 50 | 52 | 55 | 27 | 27 | 28 | 30 | 31 | 32 | 33 | 34 | 34 | 34 | 34 | 34 | 34 | |
| CR36 | CR33 | 35 | 35 | 35 | 35 | 35 | 35 | 37 | 40 | 42 | 45 | 47 | 50 | 52 | 55 | 28 | 28 | 29 | 30 | 32 | 33 | 34 | 34 | 34 | 34 | 34 | 34 | 34 | |
| CR37 | HER04 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 38 | 39 | 40 | 41 | 41 | 41 | 23 | 23 | 24 | 26 | 27 | 28 | 29 | 30 | 30 | 30 | 30 | 30 | 30 | |
| HER02 | HER04 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 22 | 22 | 23 | 25 | 26 | 27 | 28 | 29 | 29 | 29 | 29 | 29 | 29 | |
| HER03 | HER04 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 38 | 39 | 40 | 41 | 41 | 41 | 25 | 25 | 26 | 27 | 29 | 30 | 31 | 31 | 31 | 32 | 32 | 32 | 32 | |
| HER04 | HER04 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 38 | 39 | 40 | 41 | 41 | 41 | 26 | 26 | 27 | 29 | 30 | 32 | 32 | 33 | 33 | 33 | 33 | 33 | 33 | |
| HER06 | HER07 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 46 | 46 | 46 | 46 | 46 | 27 | 27 | 29 | 30 | 32 | 33 | 34 | 34 | 34 | 34 | 34 | 34 | 34 | |
| HER07 | HER07 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 46 | 46 | 46 | 46 | 46 | 27 | 27 | 28 | 30 | 31 | 33 | 34 | 34 | 34 | 34 | 34 | 34 | 34 | |
| HER08 | HER07 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 46 | 46 | 46 | 46 | 46 | 27 | 27 | 28 | 29 | 31 | 32 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | |
| HER10 | HER07 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 43 | 45 | 46 | 46 | 46 | 46 | 46 | 20 | 20 | 21 | 23 | 24 | 25 | 26 | 27 | 27 | 27 | 27 | 27 | 27 | |
| HER11 | HER07 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 43 | 45 | 46 | 46 | 46 | 46 | 46 | 19 | 19 | 21 | 22 | 24 | 25 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | |
| HER12 | HER07 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 46 | 46 | 46 | 46 | 46 | 32 | 32 | 33 | 35 | 36 | 38 | 39 | 39 | 39 | 39 | 39 | 39 | 39 | |
| HER13 | HER07 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 43 | 45 | 46 | 46 | 46 | 46 | 46 | 23 | 23 | 24 | 25 | 27 | 28 | 29 | 30 | 30 | 30 | 30 | 30 | 30 | |
| PL01 | SFR05 | 35 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 43 | 44 | 46 | 46 | 46 | 46 | 22 | 22 | 23 | 25 | 26 | 28 | 28 | 29 | 29 | 29 | 29 | 29 | 29 | |
| PL02 | SFR05 | 35 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 43 | 44 | 46 | 46 | 46 | 46 | 23 | 23 | 24 | 26 | 27 | 29 | 29 | 30 | 30 | 30 | 30 | 30 | 30 | |
| PL03 | SFR05 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 46 | 46 | 46 | 46 | 24 | 24 | 25 | 26 | 28 | 29 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | |
| PL04 | SFR05 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 46 | 46 | 46 | 46 | 31 | 31 | 32 | 33 | 35 | 36 | 37 | 38 | 38 | 38 | 38 | 38 | 38 | |
| PR01 | SFR05 | 35 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 43 | 44 | 46 | 46 | 46 | 46 | 18 | 18 | 19 | 21 | 22 | 24 | 24 | 25 | 25 | 25 | 25 | 25 | 25 | |



| Residence ID | Representative Logging Location | Criteria (dB(A)) by Hub Height (80m) Wind Speed (m/s) | | | | | | | | | | | | | | Predicted Noise Level (dB(A)) by Hub Height (80m) Wind Speed (m/s) | | | | | | | | | | | | | |
|--------------|---------------------------------|---|----|----|----|----|----|----|----|----|----|----|----|----|----|--|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| PR03 | SFR05 | 35 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 43 | 44 | 46 | 46 | 46 | 46 | 17 | 17 | 19 | 20 | 21 | 23 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | |
| PR04 | SFR05 | 35 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 43 | 44 | 46 | 46 | 46 | 46 | 17 | 17 | 18 | 20 | 21 | 23 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | |
| PR05 | SFR05 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 46 | 46 | 46 | 46 | 17 | 17 | 18 | 20 | 21 | 23 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | |
| PR06 | SFR05 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 46 | 46 | 46 | 46 | 17 | 17 | 18 | 20 | 21 | 23 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | |
| PR07 | SFR05 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 46 | 46 | 46 | 46 | 17 | 17 | 18 | 20 | 21 | 23 | 23 | 24 | 24 | 24 | 24 | 24 | 24 | |
| PR09 | SFR05 | 35 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 43 | 44 | 46 | 46 | 46 | 46 | 17 | 17 | 18 | 20 | 21 | 23 | 23 | 24 | 24 | 24 | 24 | 24 | 24 | |
| PR10 | SFR05 | 35 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 43 | 44 | 46 | 46 | 46 | 46 | 17 | 17 | 18 | 20 | 21 | 22 | 23 | 24 | 24 | 24 | 24 | 24 | 24 | |
| PR11 | SFR05 | 35 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 43 | 44 | 46 | 46 | 46 | 46 | 17 | 17 | 18 | 19 | 21 | 22 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | |
| PR12 | SFR05 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 46 | 46 | 46 | 46 | 17 | 17 | 19 | 20 | 21 | 23 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | |
| PR13 | SFR05 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 46 | 46 | 46 | 46 | 20 | 20 | 21 | 23 | 24 | 25 | 26 | 27 | 27 | 27 | 27 | 27 | 27 | |
| SFR01 | SFR05 | 35 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 43 | 44 | 46 | 46 | 46 | 46 | 23 | 23 | 25 | 26 | 28 | 29 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | |
| SFR04 | SFR05 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 46 | 46 | 46 | 46 | 28 | 28 | 29 | 31 | 32 | 34 | 34 | 35 | 35 | 35 | 35 | 35 | 35 | |
| SFR05 | SFR05 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 46 | 46 | 46 | 46 | 28 | 28 | 29 | 31 | 32 | 34 | 34 | 35 | 35 | 35 | 35 | 35 | 35 | |
| SFR06 | SFR05 | 35 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 43 | 44 | 46 | 46 | 46 | 46 | 27 | 27 | 28 | 29 | 31 | 32 | 33 | 33 | 33 | 34 | 34 | 34 | 34 | |
| SFR07 | SFR05 | 35 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 43 | 44 | 46 | 46 | 46 | 46 | 24 | 24 | 25 | 26 | 28 | 29 | 30 | 31 | 31 | 31 | 31 | 31 | 31 | |
| SFR08 | SFR05 | 35 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 43 | 44 | 46 | 46 | 46 | 46 | 24 | 24 | 25 | 26 | 28 | 29 | 30 | 31 | 31 | 31 | 31 | 31 | 31 | |
| SFR09 | SFR05 | 35 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 43 | 44 | 46 | 46 | 46 | 46 | 23 | 23 | 24 | 26 | 27 | 29 | 29 | 30 | 30 | 30 | 30 | 30 | 30 | |
| SFR10 | SFR05 | 35 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 43 | 44 | 46 | 46 | 46 | 46 | 20 | 20 | 21 | 23 | 24 | 25 | 26 | 27 | 27 | 27 | 27 | 27 | 27 | |
| SFR11 | SFR05 | 35 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 43 | 44 | 46 | 46 | 46 | 46 | 22 | 22 | 24 | 25 | 27 | 28 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | |
| SFR12 | SFR05 | 35 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 43 | 44 | 46 | 46 | 46 | 46 | 22 | 22 | 23 | 25 | 26 | 28 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | |
| SFR13 | SFR05 | 35 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 43 | 44 | 46 | 46 | 46 | 46 | 19 | 19 | 20 | 21 | 23 | 24 | 25 | 26 | 26 | 26 | 26 | 26 | 26 | |
| SFR16 | SFR05 | 35 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 43 | 44 | 46 | 46 | 46 | 46 | 21 | 21 | 22 | 23 | 25 | 26 | 27 | 27 | 27 | 28 | 28 | 28 | 28 | |
| SFR17 | SFR05 | 35 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 43 | 44 | 46 | 46 | 46 | 46 | 21 | 21 | 22 | 23 | 25 | 26 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | |
| SFR18 | SFR05 | 35 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 43 | 44 | 46 | 46 | 46 | 46 | 21 | 21 | 22 | 23 | 25 | 26 | 27 | 27 | 27 | 28 | 28 | 28 | 28 | |



| Residence ID | Representative Logging Location | Criteria (dB(A)) by Hub Height (80m) Wind Speed (m/s) | | | | | | | | | | | | | | Predicted Noise Level (dB(A)) by Hub Height (80m) Wind Speed (m/s) | | | | | | | | | | | | | |
|--------------|---------------------------------|---|----|----|----|----|----|----|----|----|----|----|----|----|----|--|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| CR28 | CR28 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 38 | 41 | 43 | 45 | 45 | 23 | 23 | 23 | 24 | 28 | 31 | 33 | 34 | 34 | 34 | 34 | 34 | 34 | 34 |
| CR32 | CR33 | 35 | 35 | 35 | 35 | 35 | 35 | 37 | 40 | 42 | 45 | 47 | 50 | 52 | 55 | 21 | 21 | 21 | 23 | 26 | 30 | 31 | 32 | 32 | 32 | 32 | 32 | 32 | 32 |
| CR33 | CR33 | 35 | 35 | 35 | 35 | 35 | 35 | 37 | 40 | 42 | 45 | 47 | 50 | 52 | 55 | 23 | 23 | 23 | 24 | 28 | 31 | 33 | 34 | 34 | 34 | 34 | 34 | 34 | 34 |
| CR34 | CR33 | 35 | 35 | 35 | 35 | 35 | 35 | 37 | 40 | 42 | 45 | 47 | 50 | 52 | 55 | 25 | 25 | 25 | 27 | 30 | 33 | 35 | 36 | 36 | 36 | 36 | 36 | 36 | 36 |
| CR35 | CR33 | 35 | 35 | 35 | 35 | 35 | 35 | 37 | 40 | 42 | 45 | 47 | 50 | 52 | 55 | 22 | 22 | 22 | 24 | 27 | 30 | 32 | 33 | 33 | 33 | 33 | 33 | 33 | 33 |
| CR36 | CR33 | 35 | 35 | 35 | 35 | 35 | 35 | 37 | 40 | 42 | 45 | 47 | 50 | 52 | 55 | 23 | 23 | 23 | 24 | 28 | 31 | 33 | 34 | 34 | 34 | 34 | 34 | 34 | 34 |
| CR37 | HER04 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 38 | 39 | 40 | 41 | 41 | 41 | 19 | 19 | 19 | 20 | 24 | 27 | 29 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| HER02 | HER04 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 18 | 18 | 18 | 19 | 22 | 26 | 28 | 29 | 29 | 29 | 29 | 29 | 29 | 29 |
| HER03 | HER04 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 38 | 39 | 40 | 41 | 41 | 41 | 20 | 20 | 20 | 22 | 25 | 29 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 |
| HER04 | HER04 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 38 | 39 | 40 | 41 | 41 | 41 | 22 | 22 | 22 | 23 | 27 | 30 | 32 | 33 | 33 | 33 | 33 | 33 | 33 | 33 |
| HER06 | HER07 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 46 | 46 | 46 | 46 | 46 | 23 | 23 | 23 | 25 | 28 | 32 | 33 | 34 | 34 | 34 | 34 | 34 | 34 | 34 |
| HER07 | HER07 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 46 | 46 | 46 | 46 | 46 | 23 | 23 | 23 | 24 | 27 | 31 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 |
| HER08 | HER07 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 46 | 46 | 46 | 46 | 46 | 22 | 22 | 22 | 23 | 27 | 30 | 32 | 33 | 33 | 33 | 33 | 33 | 33 | 33 |
| HER10 | HER07 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 43 | 45 | 46 | 46 | 46 | 46 | 46 | 15 | 15 | 15 | 16 | 20 | 23 | 25 | 26 | 26 | 26 | 26 | 26 | 26 | 26 |
| HER11 | HER07 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 43 | 45 | 46 | 46 | 46 | 46 | 46 | 15 | 15 | 15 | 16 | 19 | 23 | 25 | 26 | 26 | 26 | 26 | 26 | 26 | 26 |
| HER12 | HER07 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 46 | 46 | 46 | 46 | 46 | 28 | 28 | 28 | 29 | 32 | 36 | 38 | 39 | 39 | 39 | 39 | 39 | 39 | 39 |
| HER13 | HER07 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 43 | 45 | 46 | 46 | 46 | 46 | 46 | 18 | 18 | 18 | 19 | 23 | 26 | 28 | 29 | 29 | 29 | 29 | 29 | 29 | 29 |
| PL01 | SFR05 | 35 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 43 | 44 | 46 | 46 | 46 | 46 | 18 | 18 | 18 | 19 | 22 | 26 | 28 | 29 | 29 | 29 | 29 | 29 | 29 | 29 |
| PL02 | SFR05 | 35 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 43 | 44 | 46 | 46 | 46 | 46 | 19 | 19 | 19 | 20 | 23 | 27 | 29 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| PL03 | SFR05 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 46 | 46 | 46 | 46 | 19 | 19 | 19 | 21 | 24 | 27 | 29 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| PL04 | SFR05 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 46 | 46 | 46 | 46 | 26 | 26 | 26 | 27 | 31 | 34 | 36 | 37 | 37 | 37 | 37 | 37 | 37 | 37 |
| PR01 | SFR05 | 35 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 43 | 44 | 46 | 46 | 46 | 46 | 13 | 13 | 13 | 15 | 18 | 22 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| PR03 | SFR05 | 35 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 43 | 44 | 46 | 46 | 46 | 46 | 13 | 13 | 13 | 14 | 18 | 21 | 23 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| PR04 | SFR05 | 35 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 43 | 44 | 46 | 46 | 46 | 46 | 13 | 13 | 13 | 14 | 17 | 21 | 23 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |



| Residence ID | Representative Logging Location | Criteria (dB(A)) by Hub Height (80m) Wind Speed (m/s) | | | | | | | | | | | | | | Predicted Noise Level (dB(A)) by Hub Height (80m) Wind Speed (m/s) | | | | | | | | | | | | | |
|--------------|---------------------------------|---|----|----|----|----|----|----|----|----|----|----|----|----|----|--|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| PR05 | SFR05 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 46 | 46 | 46 | 46 | 13 | 13 | 13 | 14 | 17 | 21 | 23 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| PR06 | SFR05 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 46 | 46 | 46 | 46 | 13 | 13 | 13 | 14 | 17 | 21 | 23 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| PR07 | SFR05 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 46 | 46 | 46 | 46 | 13 | 13 | 13 | 14 | 17 | 21 | 23 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| PR09 | SFR05 | 35 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 43 | 44 | 46 | 46 | 46 | 46 | 12 | 12 | 12 | 14 | 17 | 21 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 |
| PR10 | SFR05 | 35 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 43 | 44 | 46 | 46 | 46 | 46 | 12 | 12 | 12 | 14 | 17 | 20 | 22 | 23 | 23 | 23 | 23 | 23 | 23 | 23 |
| PR11 | SFR05 | 35 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 43 | 44 | 46 | 46 | 46 | 46 | 12 | 12 | 12 | 13 | 17 | 20 | 22 | 23 | 23 | 23 | 23 | 23 | 23 | 23 |
| PR12 | SFR05 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 46 | 46 | 46 | 46 | 13 | 13 | 13 | 14 | 17 | 21 | 23 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| PR13 | SFR05 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 46 | 46 | 46 | 46 | 15 | 15 | 15 | 17 | 20 | 24 | 25 | 26 | 26 | 26 | 26 | 26 | 26 | 26 |
| SFR01 | SFR05 | 35 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 43 | 44 | 46 | 46 | 46 | 46 | 18 | 18 | 18 | 20 | 23 | 27 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 |
| SFR04 | SFR05 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 46 | 46 | 46 | 46 | 23 | 23 | 23 | 24 | 28 | 31 | 33 | 34 | 34 | 34 | 34 | 34 | 34 | 34 |
| SFR05 | SFR05 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 46 | 46 | 46 | 46 | 23 | 23 | 23 | 24 | 28 | 31 | 33 | 34 | 34 | 34 | 34 | 34 | 34 | 34 |
| SFR06 | SFR05 | 35 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 43 | 44 | 46 | 46 | 46 | 46 | 21 | 21 | 21 | 23 | 26 | 30 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 |
| SFR07 | SFR05 | 35 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 43 | 44 | 46 | 46 | 46 | 46 | 19 | 19 | 19 | 20 | 23 | 27 | 29 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| SFR08 | SFR05 | 35 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 43 | 44 | 46 | 46 | 46 | 46 | 19 | 19 | 19 | 20 | 24 | 27 | 29 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| SFR09 | SFR05 | 35 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 43 | 44 | 46 | 46 | 46 | 46 | 18 | 18 | 18 | 19 | 23 | 26 | 28 | 29 | 29 | 29 | 29 | 29 | 29 | 29 |
| SFR10 | SFR05 | 35 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 43 | 44 | 46 | 46 | 46 | 46 | 15 | 15 | 15 | 16 | 20 | 23 | 25 | 26 | 26 | 26 | 26 | 26 | 26 | 26 |
| SFR11 | SFR05 | 35 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 43 | 44 | 46 | 46 | 46 | 46 | 17 | 17 | 17 | 19 | 22 | 25 | 27 | 28 | 28 | 28 | 28 | 28 | 28 | 28 |
| SFR12 | SFR05 | 35 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 43 | 44 | 46 | 46 | 46 | 46 | 17 | 17 | 17 | 18 | 22 | 25 | 27 | 28 | 28 | 28 | 28 | 28 | 28 | 28 |
| SFR13 | SFR05 | 35 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 43 | 44 | 46 | 46 | 46 | 46 | 14 | 14 | 14 | 15 | 18 | 22 | 24 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| SFR16 | SFR05 | 35 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 43 | 44 | 46 | 46 | 46 | 46 | 16 | 16 | 16 | 17 | 21 | 24 | 26 | 27 | 27 | 27 | 27 | 27 | 27 | 27 |
| SFR17 | SFR05 | 35 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 43 | 44 | 46 | 46 | 46 | 46 | 16 | 16 | 16 | 17 | 21 | 24 | 26 | 27 | 27 | 27 | 27 | 27 | 27 | 27 |
| SFR18 | SFR05 | 35 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 43 | 44 | 46 | 46 | 46 | 46 | 16 | 16 | 16 | 17 | 21 | 24 | 26 | 27 | 27 | 27 | 27 | 27 | 27 | 27 |
| SFR19 | SFR05 | 35 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 43 | 44 | 46 | 46 | 46 | 46 | 17 | 17 | 17 | 18 | 22 | 25 | 27 | 28 | 28 | 28 | 28 | 28 | 28 | 28 |
| TR01 | HER04 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 38 | 39 | 40 | 41 | 41 | 41 | 15 | 15 | 15 | 16 | 19 | 23 | 25 | 26 | 26 | 26 | 26 | 26 | 26 | |



| Residence ID | Representative Logging Location | Criteria (dB(A)) by Hub Height (80m) Wind Speed (m/s) | | | | | | | | | | | | | | Predicted Noise Level (dB(A)) by Hub Height (80m) Wind Speed (m/s) | | | | | | | | | | | | | |
|--------------|---------------------------------|---|----|----|----|----|----|----|----|----|----|----|----|----|----|--|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| TR02 | HER04 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 38 | 39 | 40 | 41 | 41 | 41 | 14 | 14 | 14 | 16 | 19 | 23 | 24 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| TR03 | HER04 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 38 | 39 | 40 | 41 | 41 | 41 | 13 | 13 | 13 | 14 | 17 | 21 | 23 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| TR05 | HER04 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 38 | 39 | 40 | 41 | 41 | 41 | 12 | 12 | 12 | 14 | 17 | 21 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 |
| TR06 | HER04 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 38 | 39 | 40 | 41 | 41 | 41 | 12 | 12 | 12 | 13 | 17 | 20 | 22 | 23 | 23 | 23 | 23 | 23 | 23 | 23 |



APPENDIX D: NOISE CRITERIA (NIGHT-TIME PERIOD) AND PREDICTED NOISE LEVELS

Planning Layout A with 106 Acciona AW77 WTGs – Night-time Period

| Residence ID | Representative Logging Location | Night-time Criteria (dB(A)) by Hub Height (80m) Wind Speed (m/s) | | | | | | | | | | | | | | Predicted Noise Level (dB(A)) by Hub Height (80m) Wind Speed (m/s) | | | | | | | | | | | | | |
|--------------|---------------------------------|--|----|----|----|----|----|----|----|----|----|----|----|----|----|--|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| APR02 | CR14 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 42 | 42 | 42 | 21 | 21 | 22 | 23 | 25 | 26 | 27 | 28 | 28 | 28 | 28 | 28 | 28 | |
| APR03 | CR14 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 42 | 42 | 42 | 21 | 21 | 22 | 24 | 25 | 27 | 27 | 28 | 28 | 28 | 28 | 28 | 28 | |
| APR04 | CR14 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 42 | 42 | 42 | 21 | 21 | 23 | 24 | 25 | 27 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | |
| APR05 | CR14 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 42 | 42 | 42 | 21 | 21 | 22 | 24 | 25 | 27 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | |
| APR06 | CR14 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 42 | 42 | 42 | 22 | 22 | 23 | 24 | 26 | 27 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | |
| APR07 | CR14 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 42 | 42 | 42 | 20 | 20 | 22 | 23 | 24 | 26 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | |
| APR08 | CR14 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 42 | 42 | 42 | 19 | 19 | 21 | 22 | 24 | 25 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | |
| APR09 | CR14 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 42 | 42 | 42 | 19 | 19 | 20 | 22 | 23 | 25 | 25 | 26 | 26 | 26 | 26 | 26 | 26 | |
| APR10 | CR14 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 42 | 42 | 42 | 20 | 20 | 21 | 23 | 24 | 26 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | |
| CR10 | CR14 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 18 | 18 | 19 | 20 | 22 | 23 | 24 | 24 | 25 | 25 | 25 | 25 | 25 | |
| CR12 | CR14 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 19 | 19 | 21 | 22 | 23 | 25 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | |
| CR13 | CR14 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 28 | 28 | 29 | 31 | 32 | 34 | 34 | 35 | 35 | 35 | 35 | 35 | 35 | |
| CR14 | CR14 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 29 | 29 | 30 | 32 | 33 | 34 | 35 | 36 | 36 | 36 | 36 | 36 | 36 | |
| CR15 | CR14 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 37 | 39 | 41 | 42 | 42 | 42 | 29 | 29 | 30 | 31 | 33 | 34 | 35 | 36 | 36 | 36 | 36 | 36 | 36 | |
| CR16 | CR18 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 38 | 39 | 40 | 40 | 40 | 28 | 28 | 29 | 31 | 32 | 34 | 34 | 35 | 35 | 35 | 35 | 35 | 35 | |
| CR18 | CR18 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 38 | 39 | 40 | 40 | 40 | 28 | 28 | 29 | 30 | 32 | 33 | 34 | 34 | 34 | 35 | 35 | 35 | 35 | |
| CR19 | CR18 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 38 | 39 | 40 | 40 | 40 | 28 | 28 | 29 | 30 | 32 | 33 | 34 | 34 | 35 | 35 | 35 | 35 | 35 | |
| CR20 | CR18 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 38 | 39 | 40 | 40 | 40 | 27 | 27 | 29 | 30 | 32 | 33 | 34 | 34 | 34 | 34 | 34 | 34 | 34 | |
| CR21 | CR18 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 38 | 39 | 40 | 40 | 40 | 27 | 27 | 29 | 30 | 31 | 33 | 34 | 34 | 34 | 34 | 34 | 34 | 34 | |
| CR24 | CR18 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 38 | 39 | 40 | 40 | 40 | 26 | 26 | 27 | 28 | 30 | 31 | 32 | 33 | 33 | 33 | 33 | 33 | 33 | |
| CR25 | CR28 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 28 | 28 | 29 | 31 | 32 | 34 | 34 | 35 | 35 | 35 | 35 | 35 | 35 | |



| Residence ID | Representative Logging Location | Night-time Criteria (dB(A)) by Hub Height (80m) Wind Speed (m/s) | | | | | | | | | | | | | | Predicted Noise Level (dB(A)) by Hub Height (80m) Wind Speed (m/s) | | | | | | | | | | | | | |
|--------------|---------------------------------|--|----|----|----|----|----|----|----|----|----|----|----|----|----|--|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| CR26 | CR28 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 42 | 42 | 27 | 27 | 28 | 30 | 31 | 33 | 33 | 34 | 34 | 34 | 34 | 34 | 34 | 34 |
| CR27 | CR28 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 42 | 42 | 26 | 26 | 28 | 29 | 31 | 32 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 |
| CR28 | CR28 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 42 | 42 | 28 | 28 | 29 | 31 | 32 | 33 | 34 | 35 | 35 | 35 | 35 | 35 | 35 | 35 |
| CR32 | CR33 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 46 | 49 | 49 | 27 | 27 | 28 | 29 | 31 | 32 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 |
| CR33 | CR33 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 46 | 49 | 49 | 28 | 28 | 29 | 30 | 32 | 33 | 34 | 35 | 35 | 35 | 35 | 35 | 35 | 35 |
| CR34 | CR33 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 46 | 49 | 49 | 30 | 30 | 31 | 33 | 34 | 35 | 36 | 37 | 37 | 37 | 37 | 37 | 37 | 37 |
| CR35 | CR33 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 46 | 49 | 49 | 27 | 27 | 28 | 30 | 31 | 32 | 33 | 34 | 34 | 34 | 34 | 34 | 34 | 34 |
| CR36 | CR33 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 46 | 49 | 49 | 28 | 28 | 29 | 30 | 32 | 33 | 34 | 34 | 34 | 34 | 34 | 34 | 34 | 34 |
| CR37 | HER04 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 37 | 37 | 37 | 37 | 37 | 23 | 23 | 24 | 26 | 27 | 28 | 29 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| HER02 | HER04 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 22 | 22 | 23 | 25 | 26 | 27 | 28 | 29 | 29 | 29 | 29 | 29 | 29 | 29 |
| HER03 | HER04 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 37 | 37 | 37 | 37 | 37 | 25 | 25 | 26 | 27 | 29 | 30 | 31 | 31 | 31 | 32 | 32 | 32 | 32 | 32 |
| HER04 | HER04 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 37 | 37 | 37 | 37 | 37 | 26 | 26 | 27 | 29 | 30 | 32 | 32 | 33 | 33 | 33 | 33 | 33 | 33 | 33 |
| HER06 | HER07 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 27 | 27 | 29 | 30 | 32 | 33 | 34 | 34 | 34 | 34 | 34 | 34 | 34 | 34 |
| HER07 | HER07 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 27 | 27 | 28 | 30 | 31 | 33 | 34 | 34 | 34 | 34 | 34 | 34 | 34 | 34 |
| HER08 | HER07 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 27 | 27 | 28 | 29 | 31 | 32 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 |
| HER10 | HER07 | 35 | 35 | 35 | 35 | 35 | 36 | 38 | 40 | 42 | 43 | 43 | 43 | 43 | 43 | 20 | 20 | 21 | 23 | 24 | 25 | 26 | 27 | 27 | 27 | 27 | 27 | 27 | 27 |
| HER11 | HER07 | 35 | 35 | 35 | 35 | 35 | 36 | 38 | 40 | 42 | 43 | 43 | 43 | 43 | 43 | 19 | 19 | 21 | 22 | 24 | 25 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 |
| HER12 | HER07 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 32 | 32 | 33 | 35 | 36 | 38 | 39 | 39 | 39 | 39 | 39 | 39 | 39 | 39 |
| HER13 | HER07 | 35 | 35 | 35 | 35 | 35 | 36 | 38 | 40 | 42 | 43 | 43 | 43 | 43 | 43 | 23 | 23 | 24 | 25 | 27 | 28 | 29 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| PL01 | SFR05 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 46 | 46 | 46 | 46 | 46 | 22 | 22 | 23 | 25 | 26 | 28 | 28 | 29 | 29 | 29 | 29 | 29 | 29 | 29 |
| PL02 | SFR05 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 46 | 46 | 46 | 46 | 46 | 23 | 23 | 24 | 26 | 27 | 29 | 29 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| PL03 | SFR05 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 46 | 46 | 46 | 46 | 46 | 24 | 24 | 25 | 26 | 28 | 29 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| PL04 | SFR05 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 46 | 46 | 46 | 46 | 46 | 31 | 31 | 32 | 33 | 35 | 36 | 37 | 38 | 38 | 38 | 38 | 38 | 38 | 38 |
| PR01 | SFR05 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 46 | 46 | 46 | 46 | 46 | 18 | 18 | 19 | 21 | 22 | 24 | 24 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |



| Residence ID | Representative Logging Location | Night-time Criteria (dB(A)) by Hub Height (80m) Wind Speed (m/s) | | | | | | | | | | | | | | Predicted Noise Level (dB(A)) by Hub Height (80m) Wind Speed (m/s) | | | | | | | | | | | | | |
|--------------|---------------------------------|--|----|----|----|----|----|----|----|----|----|----|----|----|----|--|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| PR03 | SFR05 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 46 | 46 | 46 | 46 | 46 | 17 | 17 | 19 | 20 | 21 | 23 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | |
| PR04 | SFR05 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 46 | 46 | 46 | 46 | 46 | 17 | 17 | 18 | 20 | 21 | 23 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | |
| PR05 | SFR05 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 46 | 46 | 46 | 46 | 46 | 17 | 17 | 18 | 20 | 21 | 23 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | |
| PR06 | SFR05 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 46 | 46 | 46 | 46 | 46 | 17 | 17 | 18 | 20 | 21 | 23 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | |
| PR07 | SFR05 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 46 | 46 | 46 | 46 | 46 | 17 | 17 | 18 | 20 | 21 | 23 | 23 | 24 | 24 | 24 | 24 | 24 | 24 | |
| PR09 | SFR05 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 46 | 46 | 46 | 46 | 46 | 17 | 17 | 18 | 20 | 21 | 23 | 23 | 24 | 24 | 24 | 24 | 24 | 24 | |
| PR10 | SFR05 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 46 | 46 | 46 | 46 | 46 | 17 | 17 | 18 | 20 | 21 | 22 | 23 | 24 | 24 | 24 | 24 | 24 | 24 | |
| PR11 | SFR05 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 46 | 46 | 46 | 46 | 46 | 17 | 17 | 18 | 19 | 21 | 22 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | |
| PR12 | SFR05 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 46 | 46 | 46 | 46 | 46 | 17 | 17 | 19 | 20 | 21 | 23 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | |
| PR13 | SFR05 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 46 | 46 | 46 | 46 | 46 | 20 | 20 | 21 | 23 | 24 | 25 | 26 | 27 | 27 | 27 | 27 | 27 | 27 | |
| SFR01 | SFR05 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 46 | 46 | 46 | 46 | 46 | 23 | 23 | 25 | 26 | 28 | 29 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | |
| SFR04 | SFR05 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 46 | 46 | 46 | 46 | 46 | 28 | 28 | 29 | 31 | 32 | 34 | 34 | 35 | 35 | 35 | 35 | 35 | 35 | |
| SFR05 | SFR05 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 46 | 46 | 46 | 46 | 46 | 28 | 28 | 29 | 31 | 32 | 34 | 34 | 35 | 35 | 35 | 35 | 35 | 35 | |
| SFR06 | SFR05 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 46 | 46 | 46 | 46 | 46 | 27 | 27 | 28 | 29 | 31 | 32 | 33 | 33 | 33 | 34 | 34 | 34 | 34 | |
| SFR07 | SFR05 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 46 | 46 | 46 | 46 | 46 | 24 | 24 | 25 | 26 | 28 | 29 | 30 | 31 | 31 | 31 | 31 | 31 | 31 | |
| SFR08 | SFR05 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 46 | 46 | 46 | 46 | 46 | 24 | 24 | 25 | 26 | 28 | 29 | 30 | 31 | 31 | 31 | 31 | 31 | 31 | |
| SFR09 | SFR05 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 46 | 46 | 46 | 46 | 46 | 23 | 23 | 24 | 26 | 27 | 29 | 29 | 30 | 30 | 30 | 30 | 30 | 30 | |
| SFR10 | SFR05 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 46 | 46 | 46 | 46 | 46 | 20 | 20 | 21 | 23 | 24 | 25 | 26 | 27 | 27 | 27 | 27 | 27 | 27 | |
| SFR11 | SFR05 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 46 | 46 | 46 | 46 | 46 | 22 | 22 | 24 | 25 | 27 | 28 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | |
| SFR12 | SFR05 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 46 | 46 | 46 | 46 | 46 | 22 | 22 | 23 | 25 | 26 | 28 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | |
| SFR13 | SFR05 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 46 | 46 | 46 | 46 | 46 | 19 | 19 | 20 | 21 | 23 | 24 | 25 | 26 | 26 | 26 | 26 | 26 | 26 | |
| SFR16 | SFR05 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 46 | 46 | 46 | 46 | 46 | 21 | 21 | 22 | 23 | 25 | 26 | 27 | 27 | 27 | 28 | 28 | 28 | 28 | |
| SFR17 | SFR05 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 46 | 46 | 46 | 46 | 46 | 21 | 21 | 22 | 23 | 25 | 26 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | |
| SFR18 | SFR05 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 46 | 46 | 46 | 46 | 46 | 21 | 21 | 22 | 23 | 25 | 26 | 27 | 27 | 27 | 28 | 28 | 28 | 28 | |



| Residence ID | Representative Logging Location | Night-time Criteria (dB(A)) by Hub Height (80m) Wind Speed (m/s) | | | | | | | | | | | | | | Predicted Noise Level (dB(A)) by Hub Height (80m) Wind Speed (m/s) | | | | | | | | | | | | | |
|--------------|---------------------------------|--|----|----|----|----|----|----|----|----|----|----|----|----|----|--|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| CR28 | CR28 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 42 | 42 | 23 | 23 | 23 | 24 | 28 | 31 | 33 | 34 | 34 | 34 | 34 | 34 | 34 | 34 |
| CR32 | CR33 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 46 | 49 | 49 | 21 | 21 | 21 | 23 | 26 | 30 | 31 | 32 | 32 | 32 | 32 | 32 | 32 | 32 |
| CR33 | CR33 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 46 | 49 | 49 | 23 | 23 | 23 | 24 | 28 | 31 | 33 | 34 | 34 | 34 | 34 | 34 | 34 | 34 |
| CR34 | CR33 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 46 | 49 | 49 | 25 | 25 | 25 | 27 | 30 | 33 | 35 | 36 | 36 | 36 | 36 | 36 | 36 | 36 |
| CR35 | CR33 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 46 | 49 | 49 | 22 | 22 | 22 | 24 | 27 | 30 | 32 | 33 | 33 | 33 | 33 | 33 | 33 | 33 |
| CR36 | CR33 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 46 | 49 | 49 | 23 | 23 | 23 | 24 | 28 | 31 | 33 | 34 | 34 | 34 | 34 | 34 | 34 | 34 |
| CR37 | HER04 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 37 | 37 | 37 | 37 | 37 | 19 | 19 | 19 | 20 | 24 | 27 | 29 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| HER02 | HER04 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 18 | 18 | 18 | 19 | 22 | 26 | 28 | 29 | 29 | 29 | 29 | 29 | 29 | 29 |
| HER03 | HER04 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 37 | 37 | 37 | 37 | 37 | 20 | 20 | 20 | 22 | 25 | 29 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 |
| HER04 | HER04 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 37 | 37 | 37 | 37 | 37 | 22 | 22 | 22 | 23 | 27 | 30 | 32 | 33 | 33 | 33 | 33 | 33 | 33 | 33 |
| HER06 | HER07 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 23 | 23 | 23 | 25 | 28 | 32 | 33 | 34 | 34 | 34 | 34 | 34 | 34 | 34 |
| HER07 | HER07 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 23 | 23 | 23 | 24 | 27 | 31 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 |
| HER08 | HER07 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 22 | 22 | 22 | 23 | 27 | 30 | 32 | 33 | 33 | 33 | 33 | 33 | 33 | 33 |
| HER10 | HER07 | 35 | 35 | 35 | 35 | 35 | 36 | 38 | 40 | 42 | 43 | 43 | 43 | 43 | 43 | 15 | 15 | 15 | 16 | 20 | 23 | 25 | 26 | 26 | 26 | 26 | 26 | 26 | 26 |
| HER11 | HER07 | 35 | 35 | 35 | 35 | 35 | 36 | 38 | 40 | 42 | 43 | 43 | 43 | 43 | 43 | 15 | 15 | 15 | 16 | 19 | 23 | 25 | 26 | 26 | 26 | 26 | 26 | 26 | 26 |
| HER12 | HER07 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 28 | 28 | 28 | 29 | 32 | 36 | 38 | 39 | 39 | 39 | 39 | 39 | 39 | 39 |
| HER13 | HER07 | 35 | 35 | 35 | 35 | 35 | 36 | 38 | 40 | 42 | 43 | 43 | 43 | 43 | 43 | 18 | 18 | 18 | 19 | 23 | 26 | 28 | 29 | 29 | 29 | 29 | 29 | 29 | 29 |
| PL01 | SFR05 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 46 | 46 | 46 | 46 | 46 | 18 | 18 | 18 | 19 | 22 | 26 | 28 | 29 | 29 | 29 | 29 | 29 | 29 | 29 |
| PL02 | SFR05 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 46 | 46 | 46 | 46 | 46 | 19 | 19 | 19 | 20 | 23 | 27 | 29 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| PL03 | SFR05 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 46 | 46 | 46 | 46 | 46 | 19 | 19 | 19 | 21 | 24 | 27 | 29 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| PL04 | SFR05 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 46 | 46 | 46 | 46 | 46 | 26 | 26 | 26 | 27 | 31 | 34 | 36 | 37 | 37 | 37 | 37 | 37 | 37 | 37 |
| PR01 | SFR05 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 46 | 46 | 46 | 46 | 46 | 13 | 13 | 13 | 15 | 18 | 22 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| PR03 | SFR05 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 46 | 46 | 46 | 46 | 46 | 13 | 13 | 13 | 14 | 18 | 21 | 23 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| PR04 | SFR05 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 46 | 46 | 46 | 46 | 46 | 13 | 13 | 13 | 14 | 17 | 21 | 23 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |



| Residence ID | Representative Logging Location | Night-time Criteria (dB(A)) by Hub Height (80m) Wind Speed (m/s) | | | | | | | | | | | | | | Predicted Noise Level (dB(A)) by Hub Height (80m) Wind Speed (m/s) | | | | | | | | | | | | | |
|--------------|---------------------------------|--|----|----|----|----|----|----|----|----|----|----|----|----|----|--|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| PR05 | SFR05 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 46 | 46 | 46 | 46 | 46 | 13 | 13 | 13 | 14 | 17 | 21 | 23 | 24 | 24 | 24 | 24 | 24 | 24 | |
| PR06 | SFR05 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 46 | 46 | 46 | 46 | 46 | 13 | 13 | 13 | 14 | 17 | 21 | 23 | 24 | 24 | 24 | 24 | 24 | 24 | |
| PR07 | SFR05 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 46 | 46 | 46 | 46 | 46 | 13 | 13 | 13 | 14 | 17 | 21 | 23 | 24 | 24 | 24 | 24 | 24 | 24 | |
| PR09 | SFR05 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 46 | 46 | 46 | 46 | 46 | 12 | 12 | 12 | 14 | 17 | 21 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | |
| PR10 | SFR05 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 46 | 46 | 46 | 46 | 46 | 12 | 12 | 12 | 14 | 17 | 20 | 22 | 23 | 23 | 23 | 23 | 23 | 23 | |
| PR11 | SFR05 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 46 | 46 | 46 | 46 | 46 | 12 | 12 | 12 | 13 | 17 | 20 | 22 | 23 | 23 | 23 | 23 | 23 | 23 | |
| PR12 | SFR05 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 46 | 46 | 46 | 46 | 46 | 13 | 13 | 13 | 14 | 17 | 21 | 23 | 24 | 24 | 24 | 24 | 24 | 24 | |
| PR13 | SFR05 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 46 | 46 | 46 | 46 | 46 | 15 | 15 | 15 | 17 | 20 | 24 | 25 | 26 | 26 | 26 | 26 | 26 | 26 | |
| SFR01 | SFR05 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 46 | 46 | 46 | 46 | 46 | 18 | 18 | 18 | 20 | 23 | 27 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | |
| SFR04 | SFR05 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 46 | 46 | 46 | 46 | 46 | 23 | 23 | 23 | 24 | 28 | 31 | 33 | 34 | 34 | 34 | 34 | 34 | 34 | |
| SFR05 | SFR05 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 46 | 46 | 46 | 46 | 46 | 23 | 23 | 23 | 24 | 28 | 31 | 33 | 34 | 34 | 34 | 34 | 34 | 34 | |
| SFR06 | SFR05 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 46 | 46 | 46 | 46 | 46 | 21 | 21 | 21 | 23 | 26 | 30 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | |
| SFR07 | SFR05 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 46 | 46 | 46 | 46 | 46 | 19 | 19 | 19 | 20 | 23 | 27 | 29 | 30 | 30 | 30 | 30 | 30 | 30 | |
| SFR08 | SFR05 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 46 | 46 | 46 | 46 | 46 | 19 | 19 | 19 | 20 | 24 | 27 | 29 | 30 | 30 | 30 | 30 | 30 | 30 | |
| SFR09 | SFR05 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 46 | 46 | 46 | 46 | 46 | 18 | 18 | 18 | 19 | 23 | 26 | 28 | 29 | 29 | 29 | 29 | 29 | 29 | |
| SFR10 | SFR05 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 46 | 46 | 46 | 46 | 46 | 15 | 15 | 15 | 16 | 20 | 23 | 25 | 26 | 26 | 26 | 26 | 26 | 26 | |
| SFR11 | SFR05 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 46 | 46 | 46 | 46 | 46 | 17 | 17 | 17 | 19 | 22 | 25 | 27 | 28 | 28 | 28 | 28 | 28 | 28 | |
| SFR12 | SFR05 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 46 | 46 | 46 | 46 | 46 | 17 | 17 | 17 | 18 | 22 | 25 | 27 | 28 | 28 | 28 | 28 | 28 | 28 | |
| SFR13 | SFR05 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 46 | 46 | 46 | 46 | 46 | 14 | 14 | 14 | 15 | 18 | 22 | 24 | 25 | 25 | 25 | 25 | 25 | 25 | |
| SFR16 | SFR05 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 46 | 46 | 46 | 46 | 46 | 16 | 16 | 16 | 17 | 21 | 24 | 26 | 27 | 27 | 27 | 27 | 27 | 27 | |
| SFR17 | SFR05 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 46 | 46 | 46 | 46 | 46 | 16 | 16 | 16 | 17 | 21 | 24 | 26 | 27 | 27 | 27 | 27 | 27 | 27 | |
| SFR18 | SFR05 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 46 | 46 | 46 | 46 | 46 | 16 | 16 | 16 | 17 | 21 | 24 | 26 | 27 | 27 | 27 | 27 | 27 | 27 | |
| SFR19 | SFR05 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 39 | 42 | 46 | 46 | 46 | 46 | 46 | 17 | 17 | 17 | 18 | 22 | 25 | 27 | 28 | 28 | 28 | 28 | 28 | 28 | |
| TR01 | HER04 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 37 | 37 | 37 | 37 | 37 | 15 | 15 | 15 | 16 | 19 | 23 | 25 | 26 | 26 | 26 | 26 | 26 | 26 | |



| Residence ID | Representative Logging Location | Night-time Criteria (dB(A)) by Hub Height (80m) Wind Speed (m/s) | | | | | | | | | | | | | | Predicted Noise Level (dB(A)) by Hub Height (80m) Wind Speed (m/s) | | | | | | | | | | | | | |
|--------------|---------------------------------|--|----|----|----|----|----|----|----|----|----|----|----|----|----|--|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| TR02 | HER04 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 37 | 37 | 37 | 37 | 37 | 14 | 14 | 14 | 16 | 19 | 23 | 24 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| TR03 | HER04 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 37 | 37 | 37 | 37 | 37 | 13 | 13 | 13 | 14 | 17 | 21 | 23 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| TR05 | HER04 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 37 | 37 | 37 | 37 | 37 | 12 | 12 | 12 | 14 | 17 | 21 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 |
| TR06 | HER04 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 37 | 37 | 37 | 37 | 37 | 12 | 12 | 12 | 13 | 17 | 20 | 22 | 23 | 23 | 23 | 23 | 23 | 23 | 23 |